

Kiwa CMT Testing

Phase 1 Desk Study & Intrusive Investigation

Broxtowe Borough Council

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NG9 1AB





Report Number 73336/57629 (13275)

With relation to a site located at:

Land off Chewton Street
Eastwood
Nottingham

**Trust
Quality
Progress**

Report Signatories

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Report Information

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SUMMARY

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| Site Location and Size | The site is located near Land off Chewton Street, Eastwood, Nottingham at NGR 447058,345782. The site consists of c. 5No. fields, or parts of fields, that surround the former Eastwood landfill. |
| Site History Summary | <p>Historically the site is located in a rural setting, with the wider environs becoming increasingly urban since the 1930s, where coal mining and brick production have been the major industries adjacent to the site, with the site itself being largely undeveloped although some field boundaries have only altered slightly since the enclosures. Some surface clay and coal extraction has been carried out adjacent to the site to the SW, having been infilled as a landfill between 1970 & 1985.</p> <p>The historic maps show the site as <u>agricultural land</u> which has changed little since the 1600s, with only minor changes to hedgerows and field boundaries occurring.</p> <p>As such it is assessed that the likelihood of any contamination sources presented from the soils on site is VERY LOW.</p> |
| Site Geology Summary | The site is located upon Pennine Middle Coal Measures Formation, with Pennine Lower Coal Measures Formation in the SE corner and no superficial deposits noted on the site. Two faults cross the site in the SE corner and another runs across its N boundary. |
| Coal Mining Summary | <p>The site is located within an established Coal Mining Area. Coal Authority Records were only formally introduced in the latter part of the 19th Century and as such workings may have occurred without having been recorded.</p> <p>The Coal Authority notes coal at or close to the surface, which was confirmed during our investigation, but does not note any recorded shallow workings as likely to be beneath the site. The Coal Authority notes the site is within the coal mining reporting area and that the NW and some of the W boundary of the NE part of the site is thought to have previously undergone surface coal extraction, however, no evidence of surface extraction was noted during our investigation. There is a shaft listed beyond the southern site boundary and 5 coal seams underlie the site at 40m-280m depth, last worked in 1949, with any ground movement due to this now likely to be completed. The Coal Authority have not received any coal mining subsidence claims from within 50m of the site boundary since the 31st of October 1994 and no mine gas emissions are noted.</p> <p>Present and historical investigations have shown unworked thin coal seams to be present beneath the site, expected to be the 2nd Bottom Waterloo and the 3rd Waterloo seams. There is no evidence of worked shallow seams to date on the site. Coal was noted in BH1 (1.90-3.00mbegl; 2BW), BH3 (2.80-3.80mbegl); BH4 (3.80-4.80mbegl); BH#5 (2.70-3.50mbegl); BH15 (3.60-4.20mbegl); all in Zone A (see maps) and BH22 (2.40-2.80mbegl) in Zone E. It is likely that prior to development further assessment and investigation of the coal seams is highly recommended.</p> <p>No coal mining assessments or investigations have been undertaken as part of this project. It would be sensible to tailor such an investigation to any proposed plans for the site.</p> |
| Radon | The site is located in a radon affected area, as between 1 and 3% of properties are above the Action Level. No Radon protection measures are required in new dwellings or extensions. |
| Site Investigation and Monitoring | Site investigation was carried out during March and April 2018 and comprised of the sinking of 24No. Trial Pits using a 13-tonne mechanical excavator. 22No. Cable Percussive boreholes were also sunk with ground gas monitoring installations. |

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| Ground Gas Sources & Protection Summary | <p>Gas monitoring undertaken by KCMT suggests all of the site may be preliminarily considered as a CS2 Characteristic Situation for Ground Gas in line with BS8485:2015. The ground gas has been monitored within the likely response zones of proposed foundation depths. Due to the lack of data at various barometric pressures there is a requirement to carry out further monitoring (minimum 6 months).</p> <p>No true assessment of the ground gas regime can be determined until this further work is completed.</p> |
| Ground Conditions Summary | <p>The investigation completed by KCMT identified 'Topsoil' (soliflucted clays) at the surface of the site underlain by some clays of the weathered bedrock, followed by weathered mudstones, weathered sandstones and occasionally some coal. Beneath the topsoil natural clays were identified adjacent to the landfill in BH#6, BH#11 & BH#12. No evidence of landfilling was found on site.</p> <p>Comments by Michael Evans & Associates Ltd (Subject to a future investigation of the coal seams below the site): For assumed foundation loads (including suspended ground floor construction) in the order of 60kN/m, it is expected that the stiff clay on site would be a suitable formation for traditional strip / trench foundations. For design purposes an allowable net increase in bearing pressure of 125kN/m² at a minimum depth of 1.0m below ground level is suggested (Appendix Q). It is recommended that foundation depths are checked and increased if necessary, against the NHBC's guideline for building near trees (Appendix Q).</p> <p>This is a general precis of the ground conditions and it is recommended that changes in ground conditions should be monitored during any further site works, along with the proposed Coal Seam investigations, to continually assess any further investigative or treatment requirements.</p> |
| Ground Contamination Overview for Human Health and Controlled Waters | <p>There are three minor exceedances of Generic Assessment Criteria (GAC) presented in the chemical analysis. The results returned highlighted 2No. minor singular exceedances of Arsenic (TP#3, TP#14) and 1No. instance of Lead exceedance (TP#6) in the topsoil material. Although there are singular exceedances of Generic Assessment Criteria the statistical analysis and assessment shows that the risk presented to human health is very low.</p> <p>No significant contamination has been identified on site during KCMT's investigation and the site is underlain by a considerable combined thickness of highly impermeable cohesive strata and as such, the site poses a negligible risk to controlled waters.</p> <p>The risk of contamination presented by the site soils is considered NEGLIGIBLE.</p> |
| Sulfate Classification | <p>The sulfate classification with regard to the 24No. soil samples tested show a maximum BRE SD1 classification of DS-1 AC-3z, with the maximum result from the 18No. groundwater samples being DS-2 AC-2.</p> |
| Water Supply Pipes | <p>The natural strata on site (at the depth of waste pipe placement, 0.75m bgl) are free of contamination and as such present a low risk of impacting water supply pipes. It is not considered that specialist precautions are required for the laying of water supply pipes and that HDPE piping is suitable for use at the site.</p> |
| Off-Site Disposal and material re-use. | <p>The materials on site are classified as EWC Code 17 05 04 Soil and Stones (other than those mentioned in 17 05 03*) and should any materials be removed from site then the material is classified as Non-Hazardous. Further Inert WAC testing may be carried out on stockpiled material to establish the material as inert.</p> |

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| | <p>The re-use of the soils on site, depending on end-use specification, should be adequate as there is no contamination issues noted. However, the material will need to be tested to ensure it complies with the specified end-use.</p> <p>Preparation of a Materials Management Plan is recommended.</p> |
| General Remediation Considerations and Overview | <p>The majority of the site is deemed suitable for residential use (bearing in mind the need for further characterisation of the coal seams in some areas of the site, most notably the north-eastern section of the site).</p> <p>However, due to the presence of elevated Methane noted within BH#7, it is recommended that further gas monitoring is carried out to characterise the ground gas regime and that assessment of the ground gas regime is detailed in an addendum report.</p> <p>It is assumed that the topsoil material (and possibly some subsoil materials) would be re-used once stripped from site (to facilitate the construction phases). The topsoil and Subsoil materials should be handled in accordance with the DEFRA (2009) guidance <i>Code of Practice for Soils on Construction Sites</i>, so as not to damage the soils. All garden areas should be re-constructed to provide a suitable growing and drainage medium for the plots, i.e. good handling and care of the subsoil with scarifying prior to the placement of a suitable depth (suggested 300mm) of topsoil. The handling of the topsoil must be so that the structure and integrity of the soil is maintained as much as possible.</p> <p>A Remediation Statement is required to be presented (for each development zone) and agreed with the Local Planning Authority prior to development.</p> |
| Imported Materials | <p>Any materials that are imported to site should meet the geotechnical and chemical requirements of their prescribed use, e.g. 6F2, Type 1, BS3882 Topsoil and so on (this is not exhaustive). Any imported materials and their use should be agreed with the authoritative bodies (NHBC, local planning authority, Environment Agency, etc.)</p> |

Contents

1.0 Introduction

1.1 General

2.0 Site Location

2.1 Site Location and Geography

2.2 Site Description and Information

2.3 Development Information and Proposed End Use of Site

3.0 Site History

3.1 Historical Land Use

3.2 Available (Previous) Reports, Certificates and Documents

3.3 Historical review

3.4 Summary

4.0 Geology, Coal Mining and Radon

4.1 Geology

4.2 Coal Authority Mining Records & Radon

4.3 Borehole Records

4.4 Coal Mining Risk Appraisal

4.5 Summary

5.0 Environmental Information

5.1 Hydrogeology and Hydrology

5.2 River Network

5.3 Flooding

5.4 Discussion of Surface Water and Aquifer Impact

5.5 Regulatory IPC & IPPC Information

5.6 Water Industry Referrals, Red List & Dangerous Substances

5.7 Pollution Incidents

5.8 Summary

6.0 Regulatory Information

6.1 Environmentally Sensitive Areas

6.2 Landfills

6.3 Other Waste Sites

6.4 Ground Gas Implications

6.5 Summary

7.0 Current Land Use

7.1 Current Industrial Information

7.2 Petrol & Fuel Sites

7.3 High Pressure Pipelines

8.0 Ground Conditions Overview

8.1 Geology

8.2 Landfills, Made Ground and Artificial Ground

8.3 Ground Workings, Coal Mining and Radon

8.4 Geotechnical Information

8.5 Discussion

9.0 Qualitative Assessment and Conceptual Site Model

9.1 Overview

9.2 Sources

9.3 Pathways

9.4 Receptors

9.5 Elimination of Sources

9.6 Elimination of Pathways

9.7 Elimination of Receptors

9.8 Summary of Issues

9.9 CEM Summary

10.0 Site Investigation Summary

10.1 Site Investigation Plan

10.2 Determination of Underlying Strata

10.3 Monitoring Results

10.4 Testing Schedule

10.5 Waste Assessment

10.6 Human Health

10.7 Sulfate Classification

10.8 Geotechnical Interpretation

10.9 Conceptual Model Revision

11.0 Conclusion

11.1 Contamination and Waste Summary

11.2 Foundation Recommendations

11.3 Further Work Required

Appendices

Appendix A Site Plan

Appendix B Historical Maps

Appendix C Search Data

Appendix D Proposed Plan

Appendix E Site Photographs

Appendix F Assessment Information

Appendix G Terms, Limitations and Conditions

Appendix H References

Appendix I BH & TP Location Map

Appendix J BH & TP Logs

Appendix K Trial Pit Photographs

Appendix L Monitoring Results

Appendix M Chemical Testing Results

Appendix N BRE SD1 Suite Results

Appendix O Waste Assessment Outputs

Appendix P Geotechnical Testing Results

Appendix Q Interpretive Geotechnical Report

Appendix R Human Health Generic Assessment Criteria

Appendix S Statistics

Tables

Table 3.1 Historical Land Use

Table 4.1 Nicholls Colton Investigation 2001

Table 5.1 Controlled Water Sensitivity & Impact

Table 6.1 Landfill Information

Table 7.1 Landfills

Table 8.1 Geotechnical Information

Table 9.1 Sources of Contamination

Table 9.2 Pathways for Contamination

Table 9.3 Human Receptors

Table 9.4 Other Receptors

Table 9.5 Conceptual Model

Table 10.1 Summary Gas Results for values of >5.0%v/v CO₂ and/or >1.0%v/v CH₄

Table 10.2 Characteristic Gas Situation

Table 10.3 Samples Tested

Table 10.4 Waste Assessment Summary

Table 10.5 Human Health Summary

Table 10.6 Sulfate Testing Summary

1 Introduction

1.1 General

1.1.1 The following study has been prepared on behalf of Kiwa CMT Testing for **Broxtowe Borough Council** to investigate a potential development site located on **Land off Chewton Street, Eastwood, Nottingham**.

1.1.2 No development or change of use is proposed, however, the investigation and assessments assume a general residential development (likely with public open space) to be the desired end use of the site.

2 Site Location

2.1 Site Location and Geography

2.1.1 The centre of the site is located at National Grid Reference 447058,345782. The total site has an area of approximately 9.61 hectares and is located at c.76-91m aOD.

2.1.2 The site is comprised of approximately 5No. contiguous small fields that are located between a large residential area to the north and east and the A610 that runs WNW-ESE to the south-west of the site.

2.1.3 The site is located off Chewton Street, Eastwood, Nottingham at NGR 447058,345782.

2.2 Site Description and Information



2.2.1 A site walkover was conducted on the 20th March 2018.

2.2.2 The site consists of five areas of open, boggy and hummocky field with areas of thick brambles, generally falling to the S (a topographical difference of c.30m from the Faultline at the northern boundary and the Faultline at the southern boundary, a distance of some 400m) and mostly divided by thick hedge lines. The site has vehicle access from Braemar Avenue and Halls Lane and separate pedestrian access from Commons Close and Halls Lane. A short lane with

bituminous surfacing crosses the site running W from Halls Lane in the SE corner of the site, with a steep bank dropping off to its S, marking a field boundary. The hedge lines separating the three northern fields have gaps at their southern end allowing access straight across from Braemar Avenue. There are a number old barrels along the southern boundary of the NW field, all of which are empty and rusted.

2.2.3 To the SW of the site is the Eastwood Landfill, with the boundary being open from the SE part of the site and marked by a thick wood line, followed by a steep S falling bank from the NW. The NE part of the site is marked by a number of footpaths crossing the site.

2.2.4 To the N and W the site boundary is marked by fencing with residential housing beyond. To the E is Halls Lane with residential housing and Birch Park beyond, with a thick hedgerow along the northern part of the boundary. A wooded area marks the southern boundary of the SE part of the site, with the A610 beyond, and a steep bank marks the boundary to the E, rising to Halls Lane.

2.2.5 For ease of reference the site is zoned as below.

2.2.6 Zone A (NW): This is a boggy field in wet weather and generally dips to the S and SW. Zone B (N) is similar to Zone A and is a boggy field (when wet) and generally dips to the S. The larger field (Zone C) is a topographical high and relates well to the geological map where a large sandstone lithology is noted. The field generally rises to the NE but generally dips to the S. Zone D is marshier in its NW and SE corners and dips generally to the S. Zone E is very marshy and boggy and gently dips to the S.

Zone map of the site:



2.3 Development Information and Proposed End Use of the Site

2.3.1 No development or change of use is officially proposed although a residential end use is the desirable end-use of the site and all assessments should pertain to this use.

2.3.2 To correctly assess the site with regard to potential contamination a general land use scenario is required to be selected (as per Updated Technical Background to the CLEA model). With regard to the application site the general land use scenario applied in this instance is **RESIDENTIAL with Homegrown Produce**.

2.3.3 The development type is noted from Table 4.21 in the Updated Technical Background to the CLEA model as "Residential with Homegrown Produce". These parameters will be employed in any subsequent risk assessments as specified within cited zones of the development.

3 Site History

3.1 Historical Land Use

3.1.1 The table below details the general history of the site from the maps presented in the appendices.

| Dates | On Site | Environs |
|-----------|--|--|
| 1880-1881 | The site covers parts of a number of agricultural fields, with sparse trees along some of the field boundaries and in the centre of the SE field. The site has a building along the N boundary in the NE section of the site, with two footpaths converging on it from the S and continuing N to Newthorpe Common. The two footpaths separately head S through the site and then turn SE to meet Halls Lane. | Newthorpe Common road, Chewton Street & Halls Lane exist to the N & NE of the site, beyond the boundaries of the fields which the site sits within. Halls Lane then turns SW and runs directly down the SE side of the site. Main Street exists beyond the field boundaries to the W & the Nottingham & Erewash Valley Line of the Great Northern Railway is directly adjacent to the S of the site. Further S beyond the railway is the Nottingham Canal, followed by the River Erewash and then the Erewash Canal, all surrounded by agricultural fields and farms and four old coal pits. Along Main Road to the W of the site are the terrace houses of New Eastwood, along with Cockfield Farm and the Newthorpe & Greasley Station, with further terraces and farms along Newthorpe Common to the N. Lodge Colliery is located adjacent to the railway beyond some agricultural fields to the SE of the site, and agricultural fields are shown to the SW of the site along with an old coal pit. Two small ponds exist to the N of the site and a number of other footpaths exist through the agricultural fields surrounding the site. |
| 1885 | The site remains the same as the previous map. | Newthorpe Colliery is noted to the W, with Springfield Colliery to the N, Cotmanhay Colliery to the S & Eastwood Colliery to the W. A further old coal shaft also exists to the W along with a fifth old coal shaft noted to the S and another pond to the E. Newmanleys Mill is noted to the SW. |
| 1899 | The trees on site are no longer noted. | The Eastwood Brick Works has been constructed to the SW of the site, with the Lodge Colliery now being noted as the Lodge Colliery Brick Works and a further brick works being noted beyond the railway. An old clay pit is noted beside the Lodge Colliery Brick Works and the railway is now noted as the Pinxton Branch of the Great Northern Railway. A school has been constructed to the W of the site on Main Road and a cemetery is noted behind New Eastwood. Two of the old coal pit locations to the SW are now noted as old coal shafts and some more terraced housing has been built along Newthorpe Common. The Newthorpe Colliery is now listed as an old coal shaft, the Springfield Colliery is now listed as a Brick Works and the Eastwood and Cotmanhay Collieries are no longer listed. The Erewash Valley Brickworks has been constructed to the SE and a second spur of Halls Lane now runs SE to the Lodge Colliery Brick Works. The old coal pit in the agricultural land adjacent to the site to the SW and |

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| | | three of the old coal pits over the railway to the S are no longer shown. |
| 1900 | The site remains the same as the previous map. | Two shafts are noted adjacent to the Lodge Colliery Brick Works and some allotment Gardens are noted to the E of the site. A clay pit is shown around the Eastwood Brick Works. |
| 1901 | The site remains the same as the previous map. | As previous map. |
| 1915-1916 | The site remains the same as the previous map. | The clay pit of the Eastwood Brick Works has been extended N and W, some semi-detached houses have been built along Main Road and some Allotments are noted behind New Eastwood. The Lodge Colliery Brick Works is no longer shown, with its clay pits being shown as overgrown and the shafts now being noted as old coal shafts. The brickworks to the S of the railway is now listed as the Erewash Brick Works and it has an associated clay pit meeting the site boundary to the SW of the site. |
| 1921 | The site remains the same as the previous map. | The brickworks to the N is now noted as disused and another colliery has been constructed near it named the Newthorpe Colliery. A new building has been constructed next to the Eastwood Brick Works along with the Erewash Brick Works having an extension and a further building being constructed. The Erewash Valley Brickworks is now listed as disused. |
| 1938 | The site remains the same as the previous map. | A number of semi-detached houses have been built on Brookhill Leys Road behind New Eastwood and the railway has been renamed as the Pinxton Branch of the London North Eastern Railway. The building next to the Eastwood Brick Works is now noted as a wire and rope works and more terraces have been built along Newthorpe Common. The clay pit of the Erewash Brickworks has been extended to meet those of the Eastwood Brickworks. The lodge colliery is listed again on one map with a large number of new buildings noted. |
| 1949-1950 | The shed on the N site boundary is no longer shown. | The clay pits of the Eastwood & Erewash Brickworks have been extended to the NE and the wire and rope works has been demolished, with the Eastwood Brickworks constructing a large new building in its place and extending to the NW. The brickworks to the N and the Erewash Valley Brickworks are no longer noted. The old shafts to the SW of the site are now listed as old shaft. |
| 1955 | The site remains the same as the previous map. | One of the ponds in the N is no longer shown. |
| 1961-1962 | The previous site of the shed on the N site boundary is now noted as a pond. | The Eastwood Brickworks is now noted as separate works to the larger building adjacent to it and the larger building has been extended to the N. The Erewash Brickworks is now listed as disused and the clay pits adjacent to the Eastwood Brickworks have now been extended N and E to meet the site boundary as well as being further extended to the W. The two SE sections of the clay pits adjacent to the |

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| | | <p>Eastwood Brick works are now noted as disused with ponds noted in their deepest sections. A large number of semi-detached houses have been constructed to the N of Chewton Street, with some detached and semi-detached houses also being constructed to its S, adjacent to the site boundary. A large number of detached houses have been constructed to the S of Newthorpe Common, the lodge colliery is now listed as a disused mine and the school on Main Road has been demolished and replaced with a works. A mushroom farm has been constructed to the NW of the site and some detached housing has been constructed to the NW of the site behind New Eastwood. The Nottingham Canal is now noted as disused</p> |
| 1966 | The pond on the N site boundary is no longer listed. | <p>The ponds in the SE corner of the clay pits adjacent to the site have become much larger and some further development of detached and semi-detached housing to the N of Newthorpe Common is shown. The old clay pit area of what was Lodge Colliery and the fields between it and Halls Lane are shown to be as overgrown and Newmanleys Mill is no longer listed. Newthorpe Colliery, the works on Main Road and the second of the ponds in the N are no longer shown.</p> |
| 1973-1977 | A number of the old field boundaries in the northern part of the site are no longer shown | <p>The railway is no longer shown and has been re-used as a road along most of its length, with the section adjacent to the old clay pits having been moved slightly to the S, leaving the area which was the old track bed unused. A large residential development of bungalows and detached houses has been constructed to the NE of the site, and two smaller ones have been built to the N and NW consisting of bungalows and terraces respectively. The Newthorpe & Greasley Station and the Erewash Brick Works buildings have been demolished. The large works building to the SW of the site is now listed as a factory and has been extended to the NW. The S section of the clay pits adjacent to the site have been infilled and the NW section has partially filled with water. The overgrown area over what was Lodge Colliery is no longer shown and is buildings have been demolished with two areas of raised topography shown in its place. Three areas of opencast workings are shown on the S side of the railway to the SE of the site and the section of the Nottingham Canal which use to cross them has been removed. A depo and a works has been constructed to the W of the site and a sewage works now exists to the SE beyond the railway. The shaft to the SW is no longer listed.</p> |
| 1981-1984 | The site remains the same as the previous map. | <p>Bungalows have been constructed on Braemar Avenue to the W of the site and some of the buildings of the works which were Eastwood Brickworks have been demolished. The clay pits directly adjacent to the site are no longer noted and the water in their NW corner are no longer shown. A housing estate has been constructed to the SW consisting of bungalows, detached and semi-detached housing and the opencast workings to the SE over the railway are no longer shown, with a sports ground over the N section. A Large works building has been constructed to the E of the site and the raised areas on what was Lodge Colliery have been levelled off.</p> |

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| 1986 | The site remains the same as the previous map. | As previous map. |
| 1988-1990 | The site remains the same as the previous map. | As previous map. |
| 2002 | The site remains the same as the previous map. | The residential development to the SW has been extended to the N and W and now borders the site, with the new builds consisting of detached and semi-detached houses. A large residential development has been constructed to the E of the site and a large shed has been constructed as part of Birch park industrial park on what was Lodge Colliery. Some further housing has been constructed along Chewton Street and Newthorpe Common to the N of the site. The depot to the W of the site has been extended and a pond has formed to the SW of the site on part of the old railway track bed. A large shed has been constructed to the S of the factory to the SW do the site. |
| 2010 | The remaining field boundaries and the footpaths are no longer shown. | A second large shed has been constructed as part of Birch park industrial park. |
| 2014 | The site remains the same as the previous map. | The spur of Halls lane which use to go to Lodge Colliery has been removed and a housing estate has been constructed in its place consisting of terraced, semi-detached and detached housing. The old Eastwood Brickworks, the adjacent factory and the works on Main road have all been demolished. The pond to the S of the site has been extended to the E and another pond has formed to the W over halls lane. The road to the S of the site following the old railway line is now labelled as the A610. |

Table 3.1 Notable Points from Historical Maps (see appendices for the maps)

3.2 Available (Previous) Reports, Certificates and Documents

3.2.1 Multiple reports have been made available to KCMT by Broxtowe Borough Council:

- **Environmental Statement Revision A, JS Bloor (Measham) Ltd & Radleigh Homes Ltd, 2007**
- **Geo-Environmental Report, Atkins, 2006**
- **Landfill Gas Assessment Conestoga-Rovers & Associates, 2003**
- **Planning Inquiry, Nicholls Colton Geotechnical, 2002**
- **Preliminary Review of Environmental Control Systems, ERM EnviroClean Ltd, 1995**
- **Landfill Gas Review, Leigh Environmental Ltd, 1995**

3.3 Historical Review

General Overview:

3.3.1 It is apparent that Eastwood has had a long and interesting history and has been largely agricultural with Cockfield Farm (to which the application site was associated) has been present since Elizabethan times with a building still present on Main Street that is a refurbishment of 3No. original cottages that date from c.1600.

3.3.2 A record of information regarding the overall history of Eastwood is noted in an article from 1945 in the Nottinghamshire Guardian and can be found here: <http://www.nottshistory.org.uk/articles/doubleday/eastwood1.htm>

similarly an article from 1952 by the same author (W. E. Doubleday) on Newthorpe can be found here: <http://www.nottshistory.org.uk/articles/doubleday/newthorpe1.htm>

3.3.3 The record shows that a rector in 1744 recorded that his parishioners comprised 17 farmers and 25 cottagers. Also, that by 1776 the present-day structure of the parish had unfolded and that the enclosures had been largely completed by this time in Newthorpe and Eastwood.

3.3.4 The site itself is comprised of undeveloped agricultural fields on the boundaries of these two villages. The historical maps show some minor alterations to the field boundaries over the preceding 130 years or so.

Historic Map Review Summary:

3.3.5 The 1880 map shows the site covering parts of a number of agricultural fields, with sparse trees along some of the field boundaries. The site has a building along the N boundary in the NE section of the site, with two footpaths crossing the site and converging on it from Halls lane. Some changes to the hedge lines are noted before 1899, the shed on the northern site boundary was removed prior to 1949 and changes to the field boundaries are noted before 1973.

3.3.6 The early maps show Newthorpe Common road, Chewton Street & Halls Lane existing to the N, NE & E of the site respectively. Main Street exists beyond the field boundaries to the W, agricultural fields are shown to the SW of the site along with an old coal pit and the Nottingham & Erewash Valley Line of the Great Northern Railway is directly adjacent to the S of the site. Further S beyond the railway is the Nottingham Canal and some old coal pits, with Lodge Colliery to the SE. Along Main Road to the W of the site are the houses of New Eastwood, with further residences along Newthorpe Common to the N.

3.3.7 By 1885 the Eastwood Brick Works has been constructed to the SW of the site, with the Lodge Colliery now being noted as the Lodge Colliery Brick Works and the Erewash Brick Works being noted beyond the railway. An old clay pit is noted beside the Lodge Colliery Brick Works. Prior to 1899 some more housing has been built to the N and the old coal pit in the agricultural land adjacent to SW of the site is no longer shown. By 1900 a clay pit is shown around the Eastwood Brick Works and before 1915 the clay pit of the Eastwood Brick Works has been extended N and W, with further development having taken place along Main Road. The Lodge Colliery Brick Works is no longer shown, with the Erewash Brick Works having an associated clay pit meeting the sites SW boundary.

3.3.8 By 1921 a new building has been constructed next to the Eastwood Brick Works along with the Erewash Brick being further developed. By 1938 further development has taken place to the N & NW and the clay pit of the Erewash Brickworks has been extended to meet those of the Eastwood Brickworks. Prior to 1949 the clay pits of the Eastwood & Erewash Brickworks have been extended to the NE and the Eastwood Brickworks has a large new building to its NW. By 1961 the larger building adjacent to Eastwood Brickworks has been extended and they are noted as separate works. The Erewash Brickworks is now listed as disused and the clay pits adjacent to the Eastwood Brickworks have now been extended N and E to meet the site boundary, as well as being further extended to the W. The two SE sections of the clay pits adjacent to the site have ponds at their bases and are noted as disused. Further development has taken place adjacent to the N, NE and NW of the site, with the Nottingham Canal now being disused. Prior to 1966 the ponds in the SE corner of the clay pits adjacent to the site have become much larger and some further development has taken place to the NE.

3.3.9 By 1973 the railway has been replaced with the A610 along most of its length, with the section adjacent to the old clay pits having been moved slightly to the S, leaving the area which was the old track bed unused. Development has taken place to the N, NE and NW, with the buildings of what was Lodge Colliery and the Erewash Brick Works having been demolished. The large works building to the SW of the site is now listed as a factory and has been extended to the NW and the S section of the clay pits adjacent to the site have been infilled, with the NW section partially filling with water. Opencast workings are shown on the S side of the railway, to the SE of the site, and the old coal pits to the SW are no longer listed. By 1981 residences have been constructed on Braemar Avenue and to the SW of the site and the clay pits directly adjacent to the site and the opencast workings to the SE are no longer shown. By 2002 the residential development to the SW has been extended to border the zones on the east of the site, with further development taking place to the N & E. A large shed has been constructed as part of Birch park industrial park on what was Lodge Colliery, a pond has formed to the SW of the site on part of the old railway track bed and a large shed has been constructed adjacent to the factory to the SW. By 2010 a second large shed has been constructed as part of Birch park industrial park and prior to 2014 further development has taken place to the E. The old Eastwood Brickworks and the adjacent factory have been demolished and the pond to the S of the site has extended to the E.

Overview of Landfill History:

3.3.10 The 2006 Atkins investigation of the site & landfill and available correspondence provide a brief history of the site. Clay was extracted from the area to the SW of the site between 1915 & 1977 for the Eastwood Brickworks &

Ereash Brickworks, prior to which the area was used as agricultural land. In the early 1970s MJ Matkin applied to dispose of dry, inorganic non-toxic materials in the S area of the clay pits. Concerns were first raised about leachate from the rising water table in 1974-1975 after pumping ceased. Nottinghamshire County Council completed some drainage improvements in 1976 & 1977 which were not entirely successful.

3.3.11 In 1977 the Gibson Waste Company applied for a licence to tip materials in the N of the clay pits with conditions for the discharge of waters. In 1978 Leigh Interests Ltd applied to infill the remaining void space in the N of the landfill site with a wider scope of waste types and completed drainage improvements to solve the leachate problem (no record of waste types tipped prior to 1980). In 1979 bungalows were constructed at Braemar Avenue by Standen Homes. In 1985 the first concerns about gas were raised and a thin topsoil capping layer was added to the landfill.

3.3.12 Gas monitoring began at the landfill in 1988 and at Braemar Avenue in 1990. The first gas control system was implemented by Leigh in 1988 however this was unsuccessful with an abatement notice being issued in 1990 and a section 106 agreement being completed in 1992. There is a reference to monitoring at the factory to the SW of the site in 1991. A 1m clay and topsoil cap was added by Leigh in 1992 along with a 1-2m gravel filled trench and 4m venting curtain on the W landfill boundary. A new gas control system was completed in 1994 but found to be only partially successful with Leigh arguing that target levels were too low and unachievable.

3.3.13 The investigation of the site by Nicholls Colton began in 2001 and their investigation at Braemar Avenue began in 2003. Conestoga Rovers conducted an investigation of Braemar Avenue from 2003 and Atkins conducted an investigation of the site & landfill from 2005.

3.3.14 Monitoring ceased at Braemar Avenue in 2004 as gas levels there were deemed to be below thresholds.

3.3.15 The reports agreed that the considerations to be given to the site for any development would be given to the primary risk drivers for the site that were presented as:

- a) Gas migration from the landfill;
- b) Shallow, but unworked, coal presenting localised founding issues that may require a suitable engineering solution;

3.3.16 From the information presented that would indeed appear to be the case and KCMT can only add that, due to the presence of unworked coal and carbonaceous materials that are interbedded with the natural geology, consideration should be given to the presence of sulfur compounds that could have a detrimental impact on cementitious materials (e.g. concrete).

3.4 Summary

| Likely On-Site Sources | Likely Off-Site Sources | Contaminants |
|---|---|--|
| Sulfates or other oxidisable sulfur containing compounds within the Carboniferous coal measures strata. | Made and Infilled Ground. Former Landfill. | Sulfates (on-site) Ground gases (CO ₂ and CH ₄) (off-site) |

4 Geology, Coal Mining and Radon

4.1 Geology

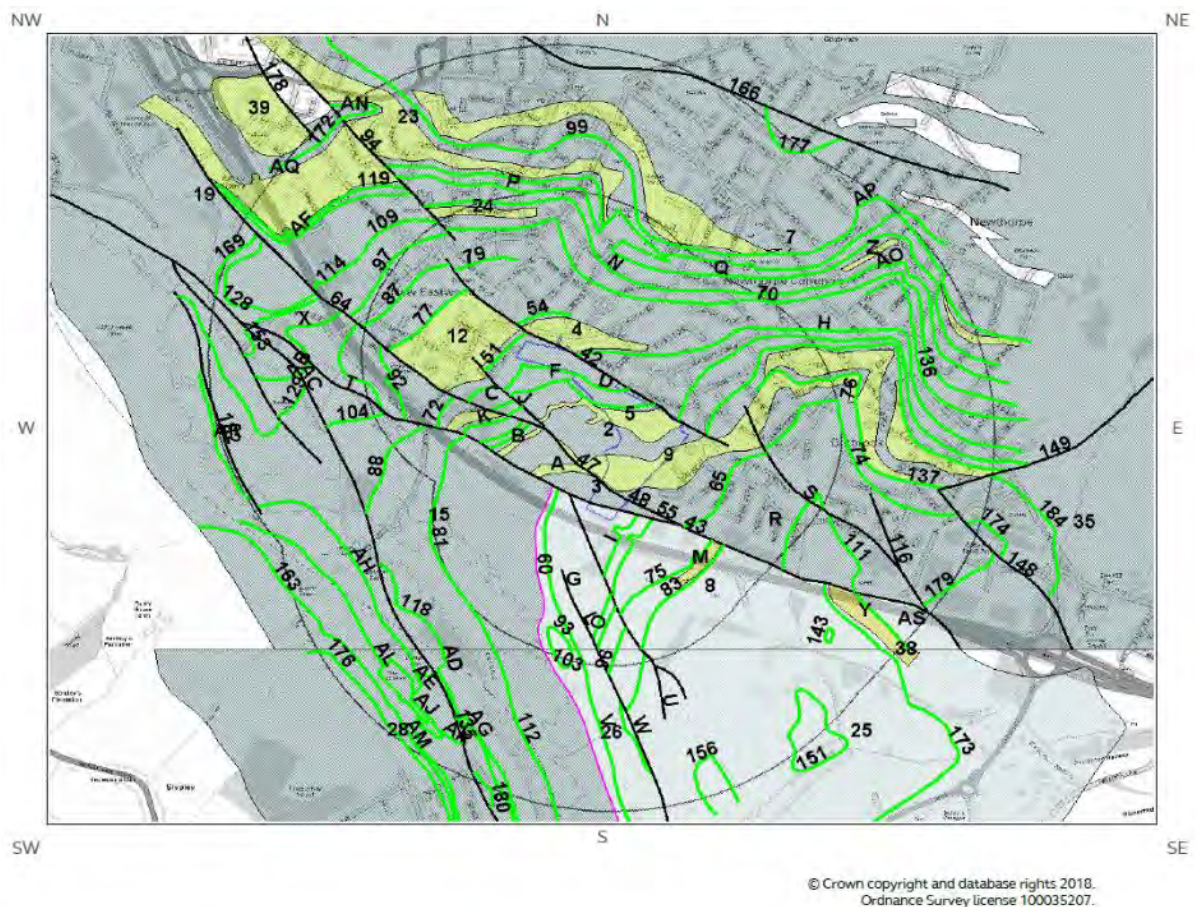
4.1.1 The map below shows the majority of the site to be underlain by sandstones, siltstones, mudstones & coals of the Pennine Middle Coal Measures Formation with sandstones, siltstones & mudstones of the Pennine Lower Coal Measures Formation in the SE corner of the site.

4.1.2 There are no superficial deposits.

4.1.3 The 1:10,000 scale map below shows two faults crossing the SE of the site in a NW SE orientation with a third fault running along the sites NE boundary. Two coal seams are shown to cross the centre of the N of the site from the SW to the NE.

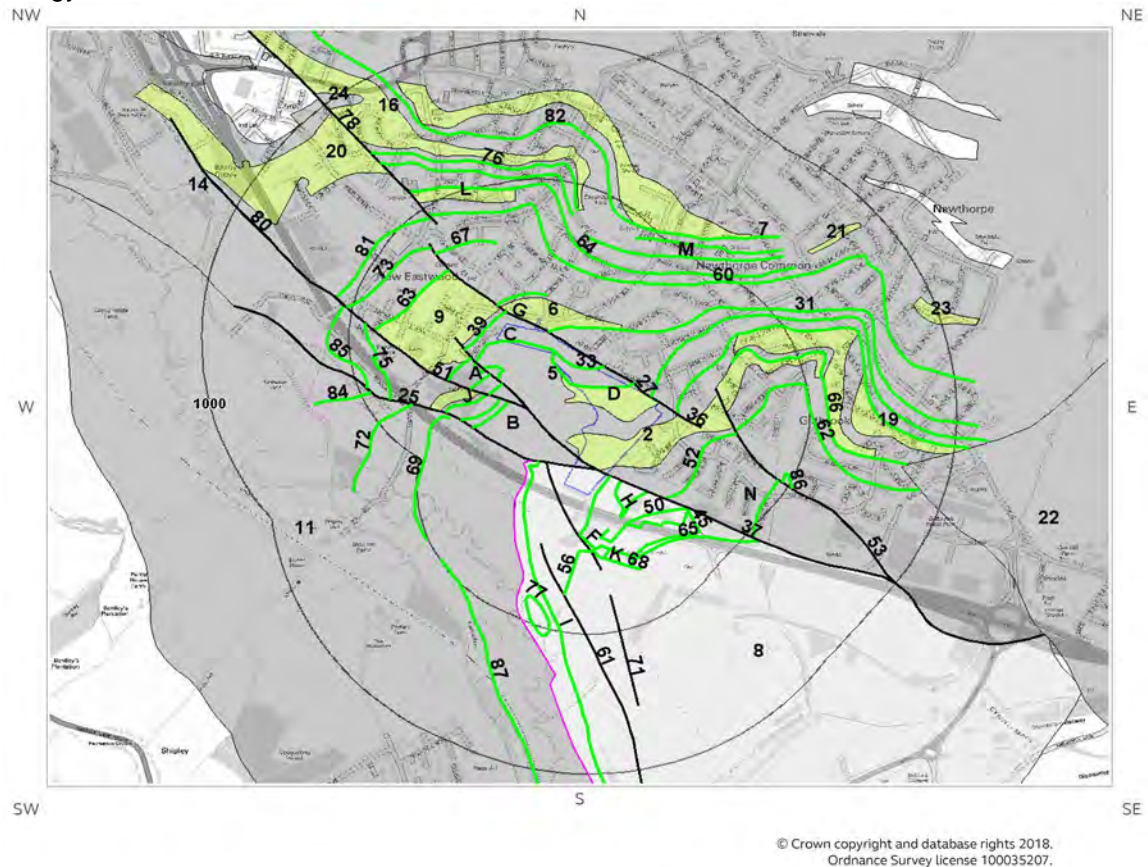
4.1.4 Ultimately the maps show that the site is bounded by faults to the north and south of the site with the downthrown faulting to the south.

Bedrock geology 1:10,000 scale:

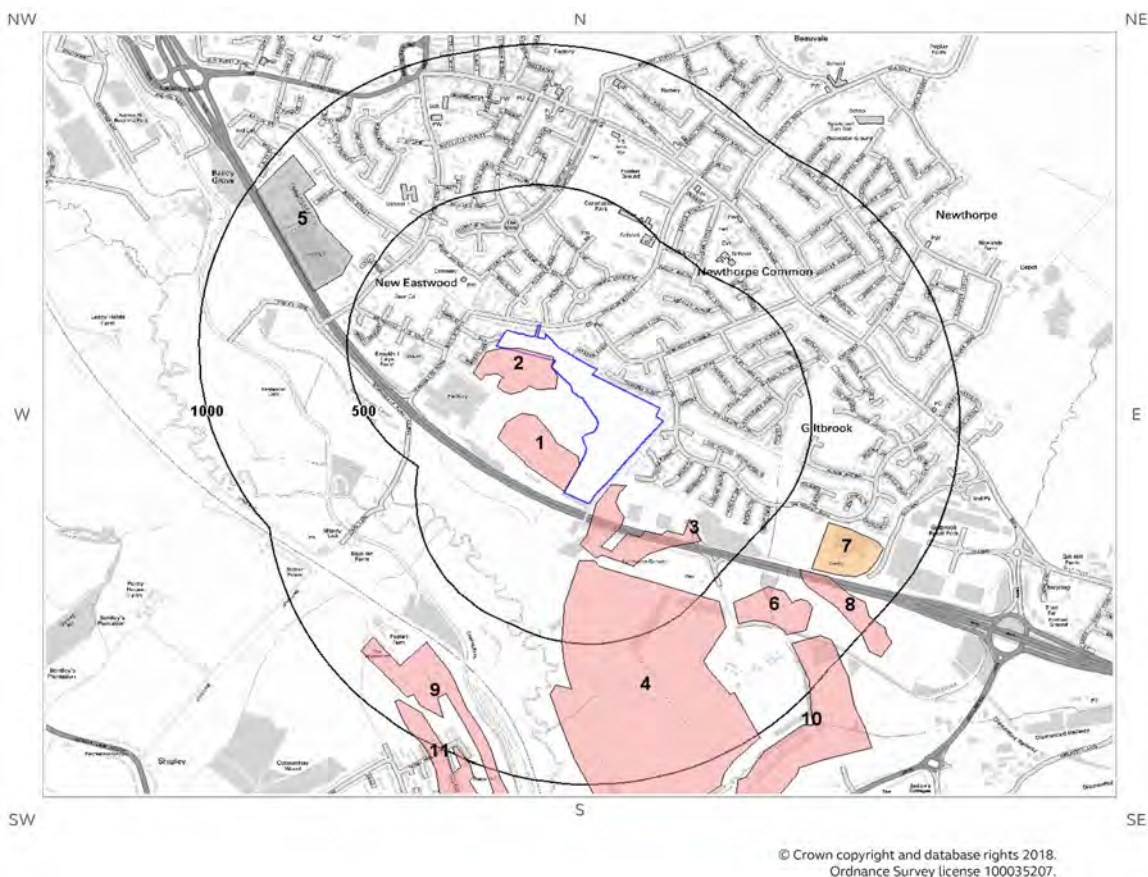


4.1.10 The coal seams in Zone A are noted to be very hard (vitreous) and are related to the Second Bottom Waterloo (2BW) and Third Waterloo (3W) coal seams with the measures between them containing both sandy strata and mudstones which may be pyritic (that are rich in mussels, also with fish debris, worm tracks and borings).

Bedrock geology 1:50,000 scale:



4.1.11 Part of the S boundary in the NW of the site is shown to be underlain by mapped artificial or worked made grounds of the N part of the landfill site. Significant amounts of infilled land are located within 250m of the site to the SW as part of the landfilled area. Further infilled land is located within 250m of the site to the SE as part of the historic opencast working (Lodge Colliery).



4.2 Coal Authority Mining Records & Radon

4.2.1 The site is located within an established Coal Mining Area. Coal Authority Records were only formally introduced in the latter part of the 19th Century and as such workings may have occurred without having been recorded.

4.2.2 The Coal Authority notes the site is within the coal mining reporting area and that the NW of the site and some of the W boundary of the NE part of the site is thought to have previously undergone surface coal extraction, however, no evidence of surface extraction was noted during our investigation.

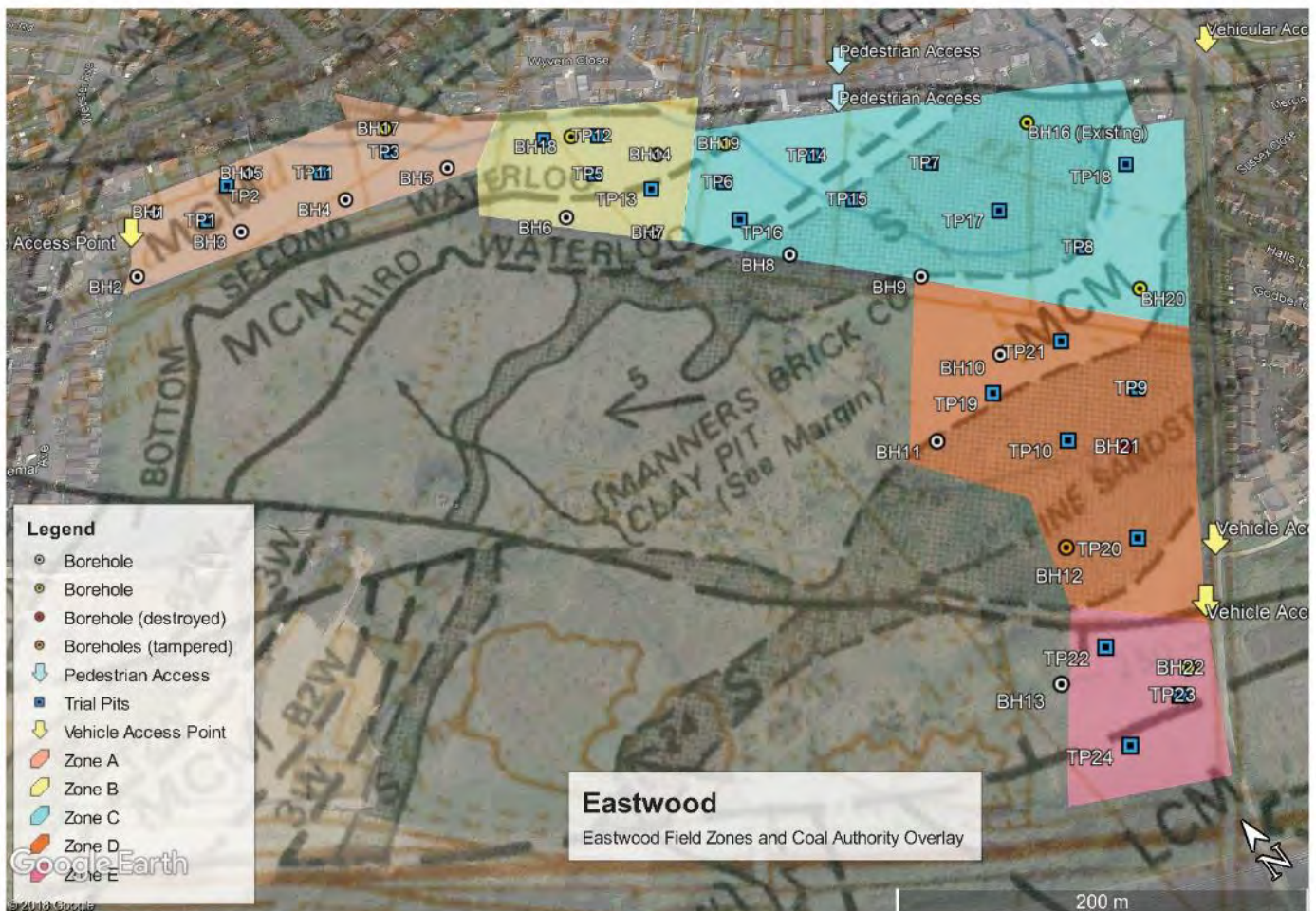
4.2.3 The Coal Authority believes there is coal at or close to the surface but does not note any recorded shallow workings beneath the site.

4.2.4 There is a shaft listed near the southern site boundary and 5 coal seams underlie the site at 40m-280m depth, last worked in 1949, with any ground movement due to this now likely to be completed.

4.2.5 The Planning Inquiry report, Proposed Housing Development at Land off Braemar Close, Giltbrook by Nicholls Colton Geotechnical dated January 2002 and with reference No. GO1177 notes that the coal authority has confirmed that abandoned mines underlie the site at depths in excess of 80m with 5 coal seams (Upper Top Soft, Lower Top Soft, Roof Soft and Deep Soft) having been worked up until 1949. They also confirm that no further movements are likely at surface due to these mines.

4.2.6 The Coal Authority have not received any coal mining subsidence claims from within 50m of the site boundary since the 31st of October 1994 and no mine gas emissions are noted.

4.2.7 The site is located in a radon affected area, as between 1 and 3% of properties are above the Action Level. No Radon protection measures are required in new dwellings or extensions.



4.2.8 The map above shows an overlay that relates the proven and extrapolated coal outcrops present on and near to the site. The map is aligned to fit the page and the dip of the strata is 5 degrees to the WNW. The solid lines indicate proven outcrops or faults with the dashed lines indicating the inferred location of outcrops/faults.

4.3 Borehole Records

4.3.1 The logs below show the lithologies on-site. They show the presence of two coal seams in the upper 10m in some parts of the NW of the site, as well as coal as shallow as 0.9m.

4.3.2 The cable percussion boreholes were drilled by Nicholls Colton Geotechnical in 2001 to identify the stratigraphy and are taken from the Planning Inquiry report, Proposed Housing Development at Land off Braemar Close, Giltbrook by Nicholls Colton Geotechnical dated January 2002 and with reference No. GO1177.

| BH Reference | BH4 |
|--|--|
| Lithology | Description |
| Topsoil | TOPSOIL 0.2m |
| Pennine Middle Coal Measures Formation | Stiff orange & grey CLAY 0.7m |
| Pennine Middle Coal Measures Formation | COAL & black CLAY 1.3m |
| Pennine Middle Coal Measures Formation | Very stiff orange & grey CLAY & mudstone 2.6m |
| Pennine Middle Coal Measures Formation | Very stiff grey CLAY with mudstone bands 0.25m |
| Pennine Middle Coal Measures Formation | COAL 0.7m |
| Pennine Middle Coal Measures Formation | Hard grey MUDSTONE 0.25m |

| BH Reference | BH14 |
|--|--|
| Lithology | Description |
| Topsoil | TOPSOIL 0.4m |
| Pennine Middle Coal Measures Formation | Stiff orange very sandy CLAY 2.6m |
| Pennine Middle Coal Measures Formation | Orange SANDSTONE 2.0m |
| Pennine Middle Coal Measures Formation | Very stiff orange very sandy CLAY 5.0m |

| BH Reference | BH17 |
|--|--|
| Lithology | Description |
| Topsoil | TOPSOIL 0.3m |
| Pennine Middle Coal Measures Formation | Very stiff orange brown CLAY with mudstone bands 1.75m |
| Pennine Middle Coal Measures Formation | Very stiff pale grey CLAY with mudstone bands 7.95m |

| BH Reference | BH22 |
|--|---|
| Lithology | Description |
| Topsoil | TOPSOIL 0.2m |
| Pennine Middle Coal Measures Formation | Firm pale grey and orange brown mottled CLAY with occasional root hairs 0.4m |
| Pennine Middle Coal Measures Formation | Firm grey and brown mottled CLAY 1.2m |
| Pennine Middle Coal Measures Formation | Soft black carbonaceous CLAY/weathered coal 0.3m |
| Pennine Middle Coal Measures Formation | Stiff friable fissured grey and brown Mottled CLAY with occasional roots and ferruginous siltstone nodules 0.7m |
| Pennine Middle Coal Measures Formation | Stiff very friable grey ad brown mottled CLAY 0.3m |
| Pennine Middle Coal Measures Formation | Stiff grey and brown mottled CLAY with thin bands of grey very weak silty mudstone 1.9m |
| Pennine Middle Coal Measures Formation | Stiff very friable grey and brown mottled CLAY/grey very weak mudstone 1.0m |
| Pennine Middle Coal Measures Formation | Black vitreous COAL 1.3m |
| Pennine Middle Coal Measures Formation | Stiff grey and brown mottled CLAY with many fine to coarse mudstone lithorelicts 0.20 |

Table 4.1 Nicholls Colton investigation 2001

4.4 Coal Mining Risk Appraisal

4.4.1 The information presented from the Coal Authority suggests a **MODERATE** risk from shallow coal and further work is required.

4.4.2 There are shallow coals across the northern and north western sections of the site that dip to the north and north west.

4.5 Summary

| Coal Mining Area? | High Risk Development Area? And/Or Shallow Coal Present? | CMRA/Intrusive Investigation Required? | Radon Protection Required in New Dwellings or Extensions? |
|-------------------|--|--|---|
| Yes. | Yes. Shallow coal is expected to be present. | Further work required due to the Moderate risk presented by the site. Investigation should proceed once the spatial distribution of development is understood. This will assist the reduction of risk and be development specific. | No. |

5 Environmental Information

5.1 Hydrogeology & Hydrology-

5.1.1 The site is not located in a Source Protection Zone for water abstraction and although the site is located upon the Regional Secondary A aquifer, the application site is unlikely to adversely impact controlled waters. The Secondary A aquifer is assigned to the Westphalian strata of the Carboniferous. There are no superficial deposits.

5.1.2 The soils on site are noted to be of high leaching potential. The site is unlikely to have significant contamination associated with it.

5.1.3 The site is not located within a Source Protection Zone for Water Abstraction, nor is it located in close proximity to any abstraction point. It is of a **NEGLIGIBLE** likelihood that the site would impact groundwaters.

| Target | Information |
|--|--|
| Superficial Aquifer Designation | N/A : No superficial deposits are present. |
| Bedrock Aquifer Designation | Secondary A (minor). |
| Source Protection Zone | None. |
| Potable Abstractions | None. |
| Industrial Abstractions | None. |
| Soil Leaching Potential | High. |
| Other Information | Impermeable cohesive strata underlie the site and the strata are of a considerable combined thickness. |
| Likelihood of Impact to Controlled Waters | Negligible. |

Table 5.1 Controlled Water Sensitivity and Impact

5.2 River Network

5.2.1 The nearest surface water course emerges within 250m to the E of the site and flows E and then S, turning from a tertiary river to a primary river. The River Erewash and a section of the Nottingham Canal also exists within 500m of the site to the SW.

5.2.2 Two ponds also exist within 250m of the site to the SW.

5.3 Flooding

5.3.1 The site is not at risk from flooding from the hydrological network.

5.4 Discussion of Surface Water and Aquifer Impact (Controlled Waters)

5.4.1 The site and immediate area are underlain by Carboniferous Westphalian coal measures strata. There are no source protection zones nor are there any potable abstractions noted within proximity of the site.

5.4.2 There is a Negligible risk of the site significantly impacting controlled waters.

5.5 Regulatory IPC & IPPC Information

5.5.1 No current IPC or IPPC are noted within 250m of the site boundary.

5.6 Water Industry Referrals, Red List & Dangerous Substances

5.6.1 There are no Water Industry discharges noted within 500m of the site. No Red List or Hazardous Substances are noted to be kept in close proximity to the site.

5.7 Pollution Incidents

5.7.1 There are two recorded pollution incidents (minor) noted within 500m of the site related to a sewage spill and fly tipping incident to the SW and SE respectively.

5.8 Summary

| Environmental Issue | Likelihood |
|-------------------------------------|------------|
| Impact to Hydrological Network | NEGLIGIBLE |
| Impact to Hyrdogeological Resources | NEGLIGIBLE |
| Impact from Environmental Pollution | NEGLIGIBLE |

6 Landfills and Waste

6.1 Environmentally Sensitive Areas

6.1.1 Five local nature reserves are located within 500m of the site, four to the E and one to the W and the site is noted to be within a nitrate vulnerable zone.

6.1.2 No parks, SSSI's, AONB, World Heritage Sites or other environmentally sensitive areas are noted in close proximity (<1km) to the site.

6.2 Landfills

6.2.1 There are six records of historic landfill sites noted within 250m of the site boundary. All six records relate to the same landfilled area which was infilled in various stages by separate operators between 1970 & 1985. The operators were J W Matkin, The Gibson Waste Company Ltd and Leigh Interests Ltd (later Leigh Environmental Ltd) who operated the S106 area in the NW of the site.

| Distance | Name | Landfill Information |
|----------|--|---|
| 30m SW | Matkin, Hales Lane | BGS No. 2811.0 |
| 0m SW | Matkin, Hales Lane (adjacent to the site) | First recorded: 1970, Operator: Mr J Matkin, Waste types: Industrial & commercial. |
| 1m SW | Refuse Tip | 1974 mapping |
| 0m SW | Gibson Waste/Eastwood Tip (adjacent to the site) | Recorded: 1972-1985, Site Reference: 5/77/24/44 & 5/84/81/44NE, Operator: The Gibson Waste Company Ltd, Waste types: Inert, Industrial, Commercial, Household, Special & Liquid sludge. |
| 0m SW | Eastwood Tip/Eastwood Landfill Site (adjacent to the site) | Recorded: 1972-1985, Site Reference: 5/84/81/44NE & 5/78/81/44NE, Operator: Leigh Interests Plc, Waste types: Inert, Industrial, Commercial, Household, Special & Liquid sludge. |
| 0m SW | Eastwood Tip (adjacent to the site) | Recorded: 1972-1985, Site Reference: 5/84/81/44NE, Operator: Leigh Environmental Limited, Waste types: Inert, Industrial, Commercial, Household, Special & Liquid sludge. |

Table 6.1 Landfill Information

6.2.2 The Nicholas Colton report on the site from 2002 states that some sections of the landfill site is expected to be up to 20m deep.

6.3 Other Waste Sites

6.3.1 None recorded within 250m of the site boundary.

6.4 Ground Gas Implications

6.4.1 There are six records of infilled land and landfills directly adjacent to the site.

6.4.2 The landfilled area to the SW, the site, the houses to the NW & the area previously occupied by a factory to the SW have a history of elevated CO₂ & CH₄ readings from previous investigations & correspondence including the 2002 Nicholas Colton report on the site, the Conestoga-Rovers & Associates investigation of Braemar Avenue in 2003 & the Atkins investigating of the site & landfill in 2006.

6.4.3 Due to the close proximity, types of wastes involved and the history of CO₂ & CH₄ migrating onto the site from the landfilled area to the SW the likelihood of migration and impact to the site is **HIGH**. However, as several years have passed by, the likelihood of significant flow rate and concentration is expected to decrease with time.

6.4.4 The primary driver for the risks to the application site is the migration of "Landfill Gas" from the landfilled area and also the presence of shallow coal in Zones A and B.

6.5 Summary

| Source & Address | Age & Type of Landfill / Made Ground | Other Relevant Information | Likelihood of Migration/Impact to Site |
|---|--------------------------------------|--|--|
| Matkin, Hales Lane, Newthorpe, Near Eastwood. | Unknown | Unknown input. | HIGH, Adjacent to the site. |
| Matkin, Hales Lane, Newthorpe, Near Eastwood. | 1970 | Industrial & commercial Waste. | HIGH, Adjacent to the site. |
| Refuse Tip | 1974 | Unknown input. | HIGH, Adjacent to the site. |
| Gibson Waste, Eastwood Tip, Formerly Matkins, Halls Lane, Eastwood | 1972-1985 | Inert, Industrial, Commercial, Household, Special & Liquid sludge Waste. | HIGH, Adjacent to the site and waste types highly likely to gas. |
| Eastwood Tip/Eastwood Landfill Site, Halls Lane, Eastwood, Nottingham | 1972-1985 | Inert, Industrial, Commercial, Household, Special & Liquid sludge Waste. | HIGH, Adjacent to the site and waste types highly likely to gas. |
| Eastwood Tip, Halls Lane, Eastwood, Nottinghamshire | 1972-1985 | Inert, Industrial, Commercial, Household, Special & Liquid sludge Waste. | HIGH, Adjacent to the site and waste types highly likely to gas. |

7 Current Land Use

7.1 Current Industrial Information

7.1.1 The majority of the site is currently used as a recreation and leisure area (due to the number of footpaths crossing it) and mowing fields, with the SE field being overgrown rough ground.

7.1.2 The former Eastwood landfill site exists to the S and SW with residential developments to the NW, NE and SE. The A610 is located to the S over the overgrown southern area, which used to be the railway cutting, and the Birch Park industrial park, to the SE over Halls Lane, offers a commercial setting.

7.2 Petrol & Fuel Sites

7.2.1 None noted.

7.3 High Pressure Pipelines

7.3.1 There is no high-pressure pipeline recorded within 500m of the site.

7.4 Other Information

7.4.1 None to report.

8 Ground Conditions Overview

8.1 Geology

8.1.1 The geology under the site is Carboniferous strata (sandstones, siltstones, mudstones & coal) relating to the Westphalian.

8.2 Landfills, Made Ground & Artificial Ground

8.2.1 Extraction of clay and coal for the local brickworks has taken place to the SW of the site and was subsequently used as a landfill over a number of phases between 1970 & 1985.

8.2.2 A map provided by Broxtowe Borough Council shows the field in the SE of the site as part of the landfill under planning reference 5/77/24/44NE, however, this has been crossed out and moved off site to the main landfill area to the W and the investigation completed by KCMT found no evidence of landfilling on this section of the site. As such it is expected that this may be an error and that the landfilling had not taken place in this area.

8.2.3 Some historic maps show slight encroachment of the landfill area on the S & W site boundaries or show it including the majority of the two fields in the centre of the N section of the site, however, the investigation completed by KCMT found no evidence of this, excluding some reworked clay up to 1m deep adjacent to the landfill in BH#6, BH#11 & BH#12. As such it is expected that this is a projection error in the mapping and the field evidence of the topography also helps to prove this information.

8.2.4 It is expected that the landfilling and infilling to the SW has the potential to significantly impact the site (with regard to ground gas migration) due to the proximity to the site, the types of wastes involved & the history of CO₂ & CH₄ migrating onto the site from the landfilled area to the SW.

8.3 Ground Workings, Coal Mining & Radon

8.3.1 The site is located within a Coal Mining Area, this has been detailed out in the coal mining section.

8.3.2 The site is not located in a Radon Protection Area. No protective measures are required in new dwellings.

8.4 Geotechnical Information

8.4.1 Information presented in the GIS search is presented below for likely geotechnical issues:

| Geotechnical Information | GIS Search Results |
|------------------------------|--|
| Shrink-Swell Clays | Negligible/Very low Likelihood. No special investigation is required |
| Landslides | Very Low Likelihood. No special investigation required. |
| Dissolution of Soluble Rocks | Negligible Likelihood. No special investigation is required. |
| Compressible Deposits | Negligible Likelihood. No special investigation is required. |
| Collapsible Deposits | Very Low Likelihood. No special investigation required. |
| Running Sands | Negligible Likelihood for running sand. No special investigation required. |

Table 8.1 Geotechnical Information

8.5 Discussion

8.5.1 As noted above, the main issues associated with the site come from the potential for landfill gas migration from the landfill site to the SW, from the potential for shallow coal workings beneath the site due to the likely presence of very shallow coal & the potential for sulfates or other oxidisable sulfur containing compounds within the Carboniferous coal measures strata to impact buried concrete.

8.5.2 Ground conditions relating to the presence of shallow coal seams will require further attention to detail as foundations should not be in contact with coal seams (this may result in differential settlement and there is also the potential for combustion of exposed coal, also coal is not appropriate for foundations to rest upon).

8.5.3 It would be prudent for a developer to investigate the presence of the shallow coal seams with regard to the location of potential development plots. This is particularly pertinent in Zones A and B where shallow (albeit unworked) coal is noted to be potentially present within the influence zones of foundations.

9 Qualitative Assessment & Conceptual Site Model

9.1 Overview

9.1.1 The risk posed by any contaminants in soil or groundwater will depend on the nature of the hazard, the probability of exposure, the pathway by which exposure occurs, and the likely effects on receptors. A contaminant source has the potential to cause harm depending on the availability of plausible pathways and the magnitude of impact to receptors.

9.1.2 The qualitative assessment determines the risk presented from the site to the end users, the risk presented to surrounding environment, the risk of the surrounding environment negatively impacting the site.

9.1.3 The end of the site is **RESIDENTIAL with Homegrown Produce**.

9.2 Sources

9.2.1 The following Sources have the potential to be present on site:

| On-Site Source | Description/Information | Risk of Impact for Soils/Waters |
|---|--|---------------------------------|
| Coal Bearing Strata: potential to impact structures | The site is located in a High-Risk Development Area and is underlain by shallow coal, however, there are no recorded workings below the site. The site is unlikely to be significantly impacted by coal generated gases. | Moderate to High |
| Chemical Species to impact buried concrete | There is some likelihood of buried concrete being impacted by sulfates or other oxidisable sulfur containing compounds within the Carboniferous coal measures strata relating to the Westphalian. | Low to Moderate |
| Off-Site Source | Description/Information | Risk of Impact for Soils/Waters |
| Adjacent Landfill | <p>A large historic landfill infilled over multiple stages is located adjacent to the site with a history of producing significant concentrations and flow rates of ground gas which has previously been found to migrate on to the site.</p> <p>The historic landfill records show that the NW section of the site, including the S106 area, contains Commercial, Household, Special & Liquid sludge waste and is the most likely to be producing gasses that may migrate through the ground.</p> <p>The section of the landfill is also noted as the deepest section at up to 20m deep. Due to this the NW section of the site is likely to be at greatest risk from ground gas migration.</p> | High |

Table 9.1 Sources of Contamination

9.3 Pathways

9.3.1 The following Sources have the potential to be present on site:

| Pathway | Active? |
|--|---------|
| Inhalation of Vapours Indoors | X |
| Inhalation of Vapour Outdoors | X |
| Direct Contact (Oral and Dermal) | ✓ |
| Inhalation of Dusts | X |
| Accumulation of Explosive/Asphyxiating Gases | ✓ |
| Accumulation of Radon Gas | X |
| Direct Contact of Structures/Buried Services | ✓ |

Table 9.2 Pathways for Contamination

9.4 Receptors

9.4.1 The following Receptors have the potential to be present on site:

| Human Health Receptor | Exposure |
|-----------------------|-------------|
| Future Site End Users | ✓ (Chronic) |
| Demolition Workers | X (Acute) |
| Construction Workers | ✓ (Acute) |
| Service Personnel | ✓ (Acute) |

Table 9.3 Human Receptors

9.4.2 The following receptors are likely to be impacted from the development on site:

| Receptor | Exposure |
|-------------------|-------------------|
| Controlled Waters | X (Chronic) |
| Flora & Fauna | ✓ (Chronic) |
| Structures | ✓ (Chronic/Acute) |
| Buried Services | ✓ (Chronic/Acute) |
| Human Health | ✓ (Chronic) |

Table 9.4 Other Receptors

9.5 Elimination of Sources

9.5.1 Radon gas is not considered to be a risk, with regard to the information supplied, and is no longer considered.

9.5.2 It is not expected that the contamination on site will be significant with regard to direct and oral contact or indeed uptake by flora or fauna but this is due to the lack of source and not receptor elimination.

9.5.3 To this end it is highly unlikely that there would be contamination on the site that would present a risk to any buried services (save for the potential impact to cementitious material from sulphurous compounds).

9.5.4 All sources are of negligible likelihood with the exception of ground gas generated from the landfill located to the SW of the site, structural impact from historic coal mining and naturally occurring sulfur containing compounds within the Westphalian strata that may impact any buried concrete/cementitious materials.

9.6 Elimination of Pathways

9.6.1 Vapour inhalation is eliminated as this is an implausible linkage.

9.7 Elimination of Receptors

9.7.1 As noted earlier in the report Controlled Groundwater and Surface Water is unlikely to be impacted by the site.

9.7.2 Buried Services are unlikely to be affected as contamination on site is not expected to be significant.

9.8 Summary of Issues

9.8.1 Summarised in the table below is the Conceptual Site Model. This is based on the proposed use of the site as Residential.

| Issue | Likelihood | Issue | Likelihood |
|---|-------------------------|---------------------------------------|------------------------|
| Human Health Impact from On-Site Contamination Sources | Negligible | Ground Gas from Coal Mining | Low |
| Human Health Impact from Off-Site Contamination Sources | Negligible | Ground Gas from Landfills/Made Ground | Moderate |
| Contamination Impact to Groundwater | Negligible | Radon Gas | Negligible |
| Structural Impact from Coal Mining | Moderate to High | Impact on Concrete | Low to Moderate |
| Impact on Water Pipes | Negligible | | |

9.9 CEM Summary

9.9.1 Historically the site is located in a rural setting, becoming increasingly urban since the 1930s, where coal mining and brick production have been the major industries. Some surface clay and coal extraction has been carried out adjacent to the site to the SW, having been infilled as a landfill between 1970 & 1985.

9.9.2 The historic maps show the site as agricultural land which has changed little since the 1880s, with only minor changes to hedgerows and field boundaries occurring.

9.9.3 The historic landfill located adjacent to the site has a history of producing significant concentrations and flow rates of ground gas which has previously been found to migrate on to the site by Nicholls Colton Geotechnical in 2001.

9.9.4 Aside from the potential of natural sulfate (or oxidizable sulfur compounds; produced from the geology), ground gas migrating onto site from the landfill and shallow coal beneath the site, it is highly unlikely that there is any other risk posed from the site to any end use receptors. The gas migration and presence of shallow coal are the primary drivers for the ground-based risks associated with the site.

9.9.5 The likelihood of significant surface contamination impacting the site is **NEGLIGIBLE**.

9.9.6 The matrix suggests that the development of the land has generally a **MODERATE to HIGH PROBABILITY** to significantly impact end users, off site receptors or site workers, however, site workers should always don sufficient protective clothing to minimise any potential impact.

9.9.7 Should any potential contamination be detected during site works then all works within the vicinity, or that is likely to be impacted by the contamination, should cease immediately and further assessment and advice should be obtained.

9.10 Conceptual Model

9.10.1 Below is the Conceptual Model for the site compiled from the available information:

| Source & Contaminant | Activated Pathways | Receptor | Probability, Consequence | Possible Mitigating Comment |
|--|--|-----------------------------|----------------------------|--|
| Upper Strata PAH, Heavy Metals, Asbestos, CO ₂ , CH ₄ . | Inhalation of dusts/vapours/fibres. Direct Contact. | Human Health (End Users) | <i>High. Mild.</i> | VERY LOW to MODERATE RISK The likelihood of physical and chemical contaminants being present in the soil profile is a VERY LOW risk as the site has remained undeveloped and has existed as agricultural fields. The likelihood of ground gas being present as a contaminant (from off-site sources) is MODERATE. Due to the age of the adjacent landfill it is likely that the predominant gas of concern would be Carbon Dioxide with some Methane. |
| Coal Bearing Strata Carbon Dioxide Methane Hydrogen Sulphide | Migration, inhalation. | Human Health (End Users) | <i>Low. Severe.</i> | MODERATE RISK Coal exists below the site but is not expected to be producing vast concentrations of gas or significant flow rates. Shallow (<30m) coal seams are expected to be present in Zones A and B at the site. Other Zones are likely to have them, however, further consideration of the Coal Seams is expected to be required and that will relate to a Development Specific Intrusive Investigation. |
| Upper Strata PAH, Heavy Metals. | Diffusion through service pipes. | Buildings. Services. | <i>Low. Mild.</i> | LOW RISK Significant thicknesses of made ground or concentrations of contaminants are not expected to exist on the site to affect utilities and as such the application of general PE water pipes are expected to be suitable for use on site. |
| Upper Strata Sulfates | Attack on buried concrete | Buildings. | <i>Low. Medium.</i> | MODERATE/LOW RISK The sulfate classification with regard to the site is expected to be of LOW RISK and not exceed a DS-2 situation which is comparative with the Middle and Lower Pennine Coal Measures clays. |
| Upper Surface PAH, Heavy Metals, Asbestos, CO ₂ , CH ₄ . | Inhalation of dusts/vapours/fibres. Direct Contact. | Human Health (Site Workers) | <i>Low. Mild.</i> | LOW RISK No contamination expected at the site. |
| Made Ground Strata Carbon Dioxide Methane Hydrogen Sulphide | Migration, inhalation. | Human Health (End Users) | <i>Negligible. Severe.</i> | LOW RISK Low volumes of Made Ground are expected to be at the site. |
| Natural Strata Radon Gas | Migration, inhalation. | Human Health (End Users) | <i>Negligible. Severe.</i> | LOW RISK Radon is not expected to be present at actionable levels, no radon protection measures are required in new dwellings or extensions and as such, the risk is expected to be LOW . |

Table 9.5 Conceptual Model

Notes: No impact to Controlled Waters is expected and as such is not included in the above table.

10 Site Investigation Summary

10.1 Site Investigation Plan

10.1.1 KCMT conducted an intrusive investigation including cable percussive drilling and trial pitting between the 26th March and the 6th April 2018. The investigation included 22No. boreholes (Cable Percussive) and 24No. trial pits (using a 13-tonne tracked mechanical excavator) across the site as agreed with the client (see appendix I).

10.1.2 The aims of the investigation were to:

- Determine the composition and thicknesses of the underlying strata.
- Execute SPTs to calculate (N) values.
- Install gas monitoring pipes with top hat type covers in all 22No. boreholes and conduct gas & water monitoring twice a month for No.6 months. This was later updated to carry out a further 6 months monitoring and this will be published in a separate Ground Gas Assessment Report. The purposed of the ground gas monitoring exercise was to establish the ground gas Characteristic Situation within the response zone for the foundations.
- Collect soil and water samples to be tested for water soluble sulfate and pH to characterise a suitable concrete design, comparable with BRE SD1 or TRL447.
- Collect soil samples to be characterised and assessed for Human Health and European Waste Catalogue Coding (EWC coding).
- Collect soil samples to be tested for PSD, PI & MC.
- Complete an Interpretive geotechnical report to make recommendations for foundation design.

10.2 Determination of Underlying Strata

10.2.1 The strata underlying the majority of the site is Pennine Middle Coal Measures Formation with Pennine Lower Coal Measures Formation in the SE corner of the site. All boreholes and trial pits showed 'topsoil', overlying yellow and grey clays, followed by weathered and often iron stained mudstones, siltstones &/or sandstones, interbedded with up to 1.1m thick coal beds/lenses (Appendix J & K).

10.2.2 No evidence of any significant thicknesses of infilled material was found on site during KCMTs investigation (Appendix J), supporting the findings of the 2002 Nicholas Colton report.

10.2.3 Natural *in situ* strata were present in the trial pits and boreholes in all zones with the exception of Zone E that had some reworked natural strata as a thin veneer.

10.2.4 No made ground was identified on site, with some reworked materials identified in the upper 1m on the SW site boundary in BH#6, BH#11 & BH#12 (Appendix J).

10.2.5 Shallow coal was noted to be present within Zone A: 0.30m thick coal was noted within TP#2 (1.60m-1.90m bgl); 1.10m of coal was noted within BH#1 (1.90m-3.00m bgl); 1.00m of coal was noted to be present in BH#3 (2.80m-3.80m bgl); BH#4 the vitreous coal was extremely difficult to chisel through and was noted to be at least 1.00m thick (3.80m-4.80m bgl); In BH#5 coal was noted to be 0.80m thick (2.70m-3.50mbgl); BH#15 proved coal to be at least 0.60m thick (3.60m-4.20m bgl); BH#17 in Zone A showed no coal at a depth of 4.25m.

10.2.6 All coals in Zone A were *in situ* and intact and were unworked.

10.2.7 In Zone B: Of the trial pits only TP#4 exhibited the presence of *in situ* coal that was 0.50m thick (1.80m-2.30m bgl). No boreholes showed the presence of very shallow coal in Zone B. The coal identified in Zone B was not worked.

10.2.8 None of the Trial Pits or Boreholes in Zone C showed the presence of very shallow coal but did prove the Sandstone band noted on the geological map.

10.2.9 From the Trial Pits and Boreholes undertaken in Zone D only BH#12 showed a thin shaly coal seam (*in situ*) 0.20m thick (2.40m-2.60m bgl).

10.2.10 In Zone E coal is shown to be present in TP#24 0.20m thick @ 2.20m-2.40m bgl and interlaminated coal and mudstone was noted in BH#22 0.40m thick (2.40m-2.8-m bgl).

10.2.11 All coals are shown to be intact and *in situ*. There is no evidence of very shallow coals being worked from the investigation carried out.

10.2.12 Natural strata were shown to be present on site from the soliflucted material through the weathered bedrock to the bedrock proper.

10.3 Monitoring Results.

10.3.1 Monitoring results are presented in appendix L.

10.3.2 An existing borehole with reference BHR2 from the Atkins investigation of the site & landfill in 2006 was intact and accessible and was monitored alongside the boreholes drilled by KCMT, the Atkins borehole has the reference BH#16. The log for this borehole is included in appendix K.

10.3.3 Gas monitoring undertaken by KCMT suggests no significant flow rates of gasses across the site and no problematic concentrations of ground gases across the majority of the site with the exception of BH#7.

10.3.4 The maximum positive flow rate recorded across the site from all monitoring visits was +0.1 l/hr.

10.3.5 BH#3 contained elevated (i.e. >5.0% v/v) levels of CO₂ on three occasions with a maximum level of 6.2% v/v and a hazardous level of CO₂ was noted in BH#4 on a single occasion at 5.0% v/v. All flow rates were low.

10.3.6 BH#7 has shown elevated levels of CH₄ on every monitoring visit, however, the levels consistently fell from the initial visit with a reading of 85.4% v/v to 2.6% v/v on the 9th visit. From this point the results were steady at 2.6% v/v under a constant atmospheric pressure of 1003 mbar until the final visit when a result of 3.3% v/v was recorded at a lower atmospheric pressure of 993 mbar.

10.3.7 The levels of methane exhibited in BH#7 are not replicated in any of the adjacent boreholes (BH#6, BH#8 and BH#14). The elevation of ground gas concentration is localised.

10.3.8 Maximum Gas Screening Values have been calculated for each borehole BH#3, BH#4 and BH#7. The other boreholes do not exhibit problematic levels or flow rates and are considered to be of LOW RISK with regard and the Gas Screening Values are considered to fall within the Ground Gas Characteristic Situation of CS1.

10.3.9 Values for the elevated levels have been plotted on a Ternary Graph (Wilson et al., 2018).

10.3.10 The worst-case values have been plotted for each of the boreholes with both peak and steady values being plotted for Borehole #7 due to the vast difference between the peak and the steady values.

10.3.11 The values plotted are:

| Borehole | CO ₂ (%v/v) | GSV CO ₂ | CH ₄ (%v/v) | GSV CH ₄ | O ₂ + N ₂ Balance (%v/v) |
|-----------------|------------------------|---------------------|------------------------|---------------------|--|
| BH#3 | 6.2 | 0.0062 | 0.1 | 0.0001 | 93.7 |
| BH#4 | 5.0 | 0.0050 | 0.1 | 0.0001 | 94.9 |
| BH#7 Peak | 4.0 | 0.0040 | 85.4 | 0.0854 | 10.6 |
| BH#7 Stabilised | 1.0 | 0.0010 | 3.3 | 0.0033 | 95.7 |

Table 10.1 Summary Gas Results for values of >5.0%v/v CO₂ and/or >1.0% CH₄

10.3.12 The graphical plot shows that the results from Boreholes 3 and 4 can be attributed to the respiration of organic matter (of which there is plenty) within the soil profile. Coupled with the flow rate, this is a likely source of the Carbon Dioxide and very low Methane concentrations.

10.3.13 The flow rates for Boreholes 3 and 4 are generally negative and are considered to be pulling air into the boreholes. This was demonstrated in the field with clear suction of air into the boreholes. The flow of water to the south within the soil profile is likely to be responsible for this.

10.3.14 The flow rates for Borehole #7 are also generally negative although in the region of -0.1L/hr.

10.3.15 Values of 0.1L/hr have been applied for the calculation of the Gas Screening Value in Table 10.1.

10.3.16 The peak values from BH#7 do not plot within the area that is attributable to Landfill Gas Migration and the source of the gas is likely to be attributable to another source, possibly localised coal seam degradation.

10.3.17 The steady values for BH#7 plot much closer to the microbial respiration area of the graph and although there may be some of the degradation processes attributable to this consideration must be given to other sources, such as coaliferous degradation, however, the flow rate is noted to be very low.

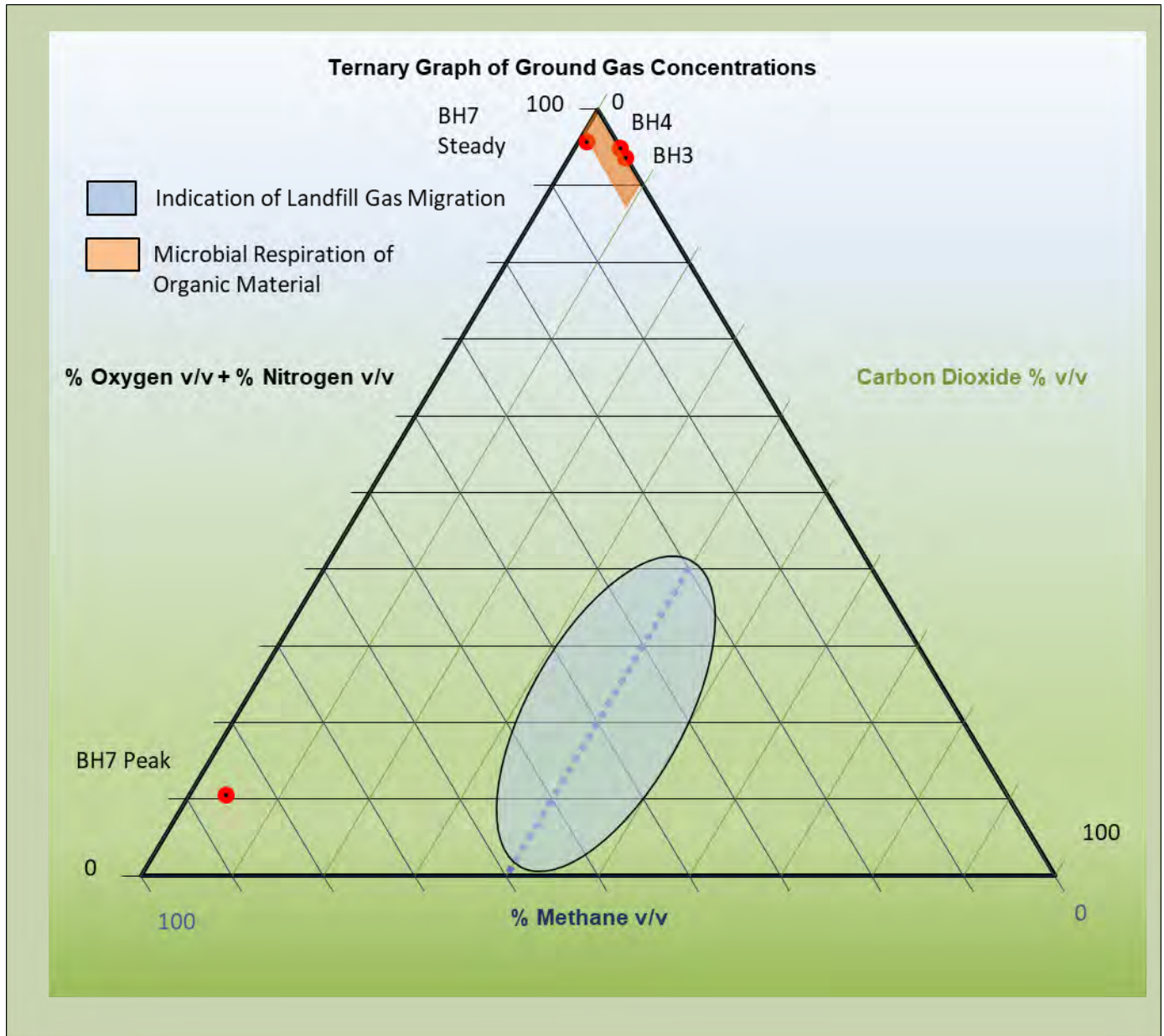


Figure 10.1 Ternary Graphical Plot of Gas Results from Boreholes #3, #4 and #7.

10.3.18 The designation of GSV should be made by inspection of all the data based on the conceptual site model with all the developments foundations and sub-structure in place, however, this is not possible in this instance and the GSV is calculated instead from the likely foundation response zones.

10.3.19 The designation of a GSV based on peak data might result in a disproportionately high gas hazard prediction and assignment of an over precautionary CS.

10.3.20 The characteristic gas situations presented in BS 8485:2015 are assessed as:

| Borehole | GSV CO ₂ | GSV CH ₄ | CS Value | Notes |
|-------------|---------------------|---------------------|----------|---|
| BH#3 | 0.0062 | 0.0001 | CS1 | The values are predominantly below 1% Methane and 5% Carbon Dioxide. Flow rates are negative and it is not considered that the flow rate or concentrations of gas are problematic, however, considering the sensitive nature of the site and the history of the sites in close proximity, it would be sensible to provide an additional level of protection with regard to the ground gas and as such a CS2 level of protection is advised for this area (Zone A). |
| BH#4 | 0.0050 | 0.0001 | CS1 | The values are predominantly below 1% Methane and 5% Carbon Dioxide. Flow rates are negative and it is not considered that the flow rate or concentrations of gas are problematic, however, considering the sensitive nature of the site and the history of the sites in close proximity, it would be sensible to provide an additional level of protection with regard to the ground gas and as such a CS2 level of protection is advised for this area (Zone A). |
| BH#7 Peak | 0.0040 | 0.0854 | CS2 | <p>Due to the fluctuant nature of the Methane concentrations within the vicinity of BH#7 it is recommended that a developer would consider ground gas monitoring at a higher resolution in order to further delineate the area (Zone B/C). Current delineation is noted by the notably low values within BH#6 and BH#14 (Zone B) and BH#8 (Zone C).</p> <p>Another option is to consider alternative uses of this locality, e.g. as Public Open Space, Commercial Buildings (Type C or Type D Buildings; BS8485:2015)</p> <p>Due to the value of Methane at Peak Value being significant consideration regarding protective measures to the work force carrying out any earthworks in this area needs to be given. Oxygen and Methane is a potentially combustible source where levels allow, e.g. 15% v/v methane in air. Although this value is variable depending upon environmental conditions.</p> <p>Due to the low flow rate increasing to CS3 is not considered at this juncture.</p> |
| BH#7 Steady | 0.0010 | 0.0033 | CS2 | See above notes for BH#7. |

Table 10.2 Characteristic Gas Situation

10.3.21 Refinement of the risk posed to human health from ground gases is considered to be **LOW** with the implementation of the required precautionary measures (to CS2 of BS8485:2015).

10.3.22 Monitoring results are presented in appendix L.

10.3.23 However, it should be noted that the dataset is limited due to lack of variation in barometric pressures and as such no reliance should be placed on this data and interim interpretation as further monitoring of the locations is required and has already been scheduled.

10.3.24 Further data collection and subsequent assessment of the monitoring results is required.

10.3.25 No reliance should be placed purely upon the results obtained to date. Considering the sensitivity of the site it is imperative that further data collection is undertaken prior to final assessment.

10.4 Testing Schedule

10.4.1 The number and types of tests to be completed were selected by the client and the most appropriate samples for the testing were chosen by KCMT.

10.4.2 The scheduled analysis for each sample is:

| KCMT Reference | Analysis Schedule |
|----------------|--|
| 57629/TP#1-1 | Extended Characterisation of Solid |
| 57629/TP#1-2 | Extended Characterisation of Solid |
| 57629/TP#1-3 | BRE SD1 Suite, PSD, PI, MC |
| 57629/TP#2-1 | Extended Characterisation of Solid |
| 57629/TP#2-2 | Extended Characterisation of Solid |
| 57629/TP#2-3 | BRE SD1 Suite, PSD, PI, MC |
| 57629/TP#2-5 | BRE SD1 Suite |
| 57629/TP#3-1 | Extended Characterisation of Solid |
| 57629/TP#3-2 | Extended Characterisation of Solid, BRE SD1 Suite, PSD, PI, MC |
| 57629/TP#4-1 | Extended Characterisation of Solid |
| 57629/TP#4-2 | Extended Characterisation of Solid, BRE SD1 Suite, PSD, PI, MC |
| 57629/TP#4-4 | BRE SD1 Suite |
| 57629/TP#5-1 | Extended Characterisation of Solid |
| 57629/TP#5-2 | Extended Characterisation of Solid, BRE SD1 Suite, PSD, PI, MC |
| 57629/TP#6-1 | Extended Characterisation of Solid |
| 57629/TP#6-2 | Extended Characterisation of Solid |
| 57629/TP#7-1 | Extended Characterisation of Solid |
| 57629/TP#7-2 | Extended Characterisation of Solid, BRE SD1 Suite, PSD, PI, MC |
| 57629/TP#8-1 | Extended Characterisation of Solid |
| 57629/TP#8-2 | Extended Characterisation of Solid, BRE SD1 Suite, PSD, PI, MC |
| 57629/TP#8-3 | BRE SD1 Suite |
| 57629/TP#9-1 | Extended Characterisation of Solid |
| 57629/TP#9-2 | Extended Characterisation of Solid, BRE SD1 Suite, PSD, PI, MC |
| 57629/TP#10-1 | Extended Characterisation of Solid |
| 57629/TP#10-2 | Extended Characterisation of Solid |
| 57629/TP#10-3 | BRE SD1 Suite, PSD, PI, MC |
| 57629/TP#11-1 | Extended Characterisation of Solid |
| 57629/TP#11-2 | Extended Characterisation of Solid |
| 57629/TP#11-3 | BRE SD1 Suite, PSD, PI, MC |
| 57629/TP#12-1 | Extended Characterisation of Solid |
| 57629/TP#12-2 | Extended Characterisation of Solid |
| 57629/TP#12-3 | BRE SD1 Suite, PSD, PI, MC |
| 57629/TP#13-1 | Extended Characterisation of Solid |
| 57629/TP#13-2 | Extended Characterisation of Solid |
| 57629/TP#13-3 | BRE SD1 Suite, PSD, PI, MC |
| 57629/TP#14-1 | Extended Characterisation of Solid |
| 57629/TP#14-2 | Extended Characterisation of Solid |
| 57629/TP#14-3 | BRE SD1 Suite, PSD, PI, MC |
| 57629/TP#15-1 | Extended Characterisation of Solid |
| 57629/TP#15-2 | Extended Characterisation of Solid |
| 57629/TP#15-3 | BRE SD1 Suite, PSD, PI, MC |
| 57629/TP#16-1 | Extended Characterisation of Solid |
| 57629/TP#16-2 | Extended Characterisation of Solid |
| 57629/TP#17-1 | Extended Characterisation of Solid |
| 57629/TP#17-2 | Extended Characterisation of Solid |
| 57629/TP#18-1 | Extended Characterisation of Solid |

| | |
|---------------|--|
| 57629/TP#18-2 | Extended Characterisation of Solid, BRE SD1 Suite, PSD, PI, MC |
| 57629/TP#19-1 | Extended Characterisation of Solid |
| 57629/TP#19-2 | Extended Characterisation of Solid, BRE SD1 Suite, PSD, PI, MC |
| 57629/TP#20-1 | Extended Characterisation of Solid |
| 57629/TP#20-2 | Extended Characterisation of Solid, BRE SD1 Suite |
| 57629/TP#20-3 | BRE SD1 Suite, PSD, PI, MC |
| 57629/TP#21-1 | Extended Characterisation of Solid |
| 57629/TP#21-2 | Extended Characterisation of Solid, BRE SD1 Suite PSD, PI, MC |
| 57629/TP#22-1 | Extended Characterisation of Solid |
| 57629/TP#22-2 | Extended Characterisation of Solid, BRE SD1 Suite, PSD, PI, MC |
| 57629/TP#22-3 | BRE SD1 Suite |
| 57629/TP#23-1 | Extended Characterisation of Solid |
| 57629/TP#23-2 | Extended Characterisation of Solid |
| 57629/TP#23-3 | BRE SD1 Suite |
| 57629/TP#24-1 | Extended Characterisation of Solid |
| 57629/TP#24-2 | Extended Characterisation of Solid |
| 57629/TP#24-3 | BRE SD1 Suite, PSD, PI, MC |
| 57629/BH#1-W | BRE SD1 suite |
| 57629/BH#2-W | BRE SD1 suite |
| 57629/BH#3-W | BRE SD1 suite |
| 57629/BH#4-W | BRE SD1 suite |
| 57629/BH#5-W | BRE SD1 suite |
| 57629/BH#7-W | BRE SD1 suite |
| 57629/BH#8-W | BRE SD1 suite |
| 57629/BH#11-W | BRE SD1 suite |
| 57629/BH#12-W | BRE SD1 suite |
| 57629/BH#13-W | BRE SD1 suite |
| 57629/BH#14-W | BRE SD1 suite |
| 57629/BH#15-W | BRE SD1 suite |
| 57629/BH#16-W | BRE SD1 suite |
| 57629/BH#17-W | BRE SD1 suite |
| 57629/BH#18-W | BRE SD1 suite |
| 57629/BH#19-W | BRE SD1 suite |
| 57629/BH#21-W | BRE SD1 suite |
| 57629/BH#22-W | BRE SD1 suite |

Table 10.3 Samples Tested

10.4.3 The results of the extended soil characterisation suites can be found in appendix M, BRE SD1 suite results can be found in appendix N & the results of the PSD, PI, MC testing can be found in Appendix P.

10.5 Waste Assessment

10.5.1 Results of the characterisations carried out by KCMT were assessed for EWC coding as requested by the client.

10.5.2 Assessment of the soil based material is carried out in line with the European Waste Catalogue Code relating to Chapter 17, Sub-chapter 05 for Excavated Soils and Stones (both anthropogenic and natural) to determine the hazardous nature of the material and to classify the material as either one of the mirror entries: "Soil and Stones containing Hazardous Substances" (Hazardous Mirror Entry: 17 05 03*) or "Soil and Stones other than those mentioned in 17 05 03*" (Non-Hazardous Mirror Entry 17 05 04).

10.5.3 Due to the nature of the material a Waste Assessment and Classification is required as per the Environment Agency Document “Waste Classification: Guidance on the Classification and Assessment of Waste (1st Edition 2015) – Technical Guidance WM3”.

10.5.4 The Assessment code and chapters have been selected from the List of Wastes.

10.5.5 The Assessment procedure has been carried out using an assessment tool: HazWaste Online™ produced by One Touch Data. The information can be found in Appendix O.

10.5.6 The samples have been assessed using the tool and the assessment is presented in appendix O. The summary of the assessment is presented below:

10.5.7 The materials on site are considered to be Non-Hazardous.

10.5.8 No WAC testing was scheduled. It would be pertinent for developers to further classify the materials on site with regard to landfill classification (e.g. as Inert).

10.5.9 Any re-use of the materials need demonstration that they are suitable for that use.

10.5.10 Re-use of any site materials as “Site Won Topsoil” need to be demonstrably shown to be handled, stored and replaced in accordance with DEFRA (2009) Soils for Use on Construction Sites.

10.5.11 Incorrect storage and handling of such materials are likely to be problematic when replaced onto the site. Poor soil handling will result in over compaction of soils and will produce a poor growing medium and a poor drainage medium. Both of these functions are critical for a suitably performing soil.

| Reference | Information | EW Code | Classification |
|---------------|------------------|----------|----------------|
| 57629/TP#1-1 | Selected by KCMT | 17 05 04 | Non-Hazardous |
| 57629/TP#1-2 | Selected by KCMT | 17 05 04 | Non-Hazardous |
| 57629/TP#2-1 | Selected by KCMT | 17 05 04 | Non-Hazardous |
| 57629/TP#2-2 | Selected by KCMT | 17 05 04 | Non-Hazardous |
| 57629/TP#3-1 | Selected by KCMT | 17 05 04 | Non-Hazardous |
| 57629/TP#3-2 | Selected by KCMT | 17 05 04 | Non-Hazardous |
| 57629/TP#4-1 | Selected by KCMT | 17 05 04 | Non-Hazardous |
| 57629/TP#4-2 | Selected by KCMT | 17 05 04 | Non-Hazardous |
| 57629/TP#5-1 | Selected by KCMT | 17 05 04 | Non-Hazardous |
| 57629/TP#5-2 | Selected by KCMT | 17 05 04 | Non-Hazardous |
| 57629/TP#6-1 | Selected by KCMT | 17 05 04 | Non-Hazardous |
| 57629/TP#6-2 | Selected by KCMT | 17 05 04 | Non-Hazardous |
| 57629/TP#7-1 | Selected by KCMT | 17 05 04 | Non-Hazardous |
| 57629/TP#7-2 | Selected by KCMT | 17 05 04 | Non-Hazardous |
| 57629/TP#8-1 | Selected by KCMT | 17 05 04 | Non-Hazardous |
| 57629/TP#8-2 | Selected by KCMT | 17 05 04 | Non-Hazardous |
| 57629/TP#9-1 | Selected by KCMT | 17 05 04 | Non-Hazardous |
| 57629/TP#9-2 | Selected by KCMT | 17 05 04 | Non-Hazardous |
| 57629/TP#10-1 | Selected by KCMT | 17 05 04 | Non-Hazardous |
| 57629/TP#10-2 | Selected by KCMT | 17 05 04 | Non-Hazardous |
| 57629/TP#11-1 | Selected by KCMT | 17 05 04 | Non-Hazardous |
| 57629/TP#11-2 | Selected by KCMT | 17 05 04 | Non-Hazardous |
| 57629/TP#12-1 | Selected by KCMT | 17 05 04 | Non-Hazardous |
| 57629/TP#12-2 | Selected by KCMT | 17 05 04 | Non-Hazardous |
| 57629/TP#13-1 | Selected by KCMT | 17 05 04 | Non-Hazardous |
| 57629/TP#13-2 | Selected by KCMT | 17 05 04 | Non-Hazardous |

| | | | |
|---------------|------------------|----------|---------------|
| 57629/TP#14-1 | Selected by KCMT | 17 05 04 | Non-Hazardous |
| 57629/TP#14-2 | Selected by KCMT | 17 05 04 | Non-Hazardous |
| 57629/TP#15-1 | Selected by KCMT | 17 05 04 | Non-Hazardous |
| 57629/TP#15-2 | Selected by KCMT | 17 05 04 | Non-Hazardous |
| 57629/TP#16-1 | Selected by KCMT | 17 05 04 | Non-Hazardous |
| 57629/TP#16-2 | Selected by KCMT | 17 05 04 | Non-Hazardous |
| 57629/TP#17-1 | Selected by KCMT | 17 05 04 | Non-Hazardous |
| 57629/TP#17-2 | Selected by KCMT | 17 05 04 | Non-Hazardous |
| 57629/TP#18-1 | Selected by KCMT | 17 05 04 | Non-Hazardous |
| 57629/TP#18-2 | Selected by KCMT | 17 05 04 | Non-Hazardous |
| 57629/TP#19-1 | Selected by KCMT | 17 05 04 | Non-Hazardous |
| 57629/TP#19-2 | Selected by KCMT | 17 05 04 | Non-Hazardous |
| 57629/TP#20-1 | Selected by KCMT | 17 05 04 | Non-Hazardous |
| 57629/TP#20-2 | Selected by KCMT | 17 05 04 | Non-Hazardous |
| 57629/TP#21-1 | Selected by KCMT | 17 05 04 | Non-Hazardous |
| 57629/TP#21-2 | Selected by KCMT | 17 05 04 | Non-Hazardous |
| 57629/TP#22-1 | Selected by KCMT | 17 05 04 | Non-Hazardous |
| 57629/TP#22-2 | Selected by KCMT | 17 05 04 | Non-Hazardous |
| 57629/TP#23-1 | Selected by KCMT | 17 05 04 | Non-Hazardous |
| 57629/TP#23-2 | Selected by KCMT | 17 05 04 | Non-Hazardous |
| 57629/TP#24-1 | Selected by KCMT | 17 05 04 | Non-Hazardous |
| 57629/TP#24-2 | Selected by KCMT | 17 05 04 | Non-Hazardous |

Table 10.4 Waste Assessment Summary

10.6 Human Health

10.6.1 The analytical results are to be assessed with regard to posing a chronic risk to human health in line with guidance current at the time of writing (indicative only). The results, in this instance, are compared to the Generic Assessment Criteria (GACs) for a Residential end-use (GACs are presented in Appendix R).

10.6.2 The human health generic assessment criteria used have been produced by the Environment Agency (2009), DEFRA (2014) and CIEH/LQM (2009, 2nd Edition).

10.6.3 Comparison of the analytical results to Human Health GACs show the following exceedances:

| Sample | Parameter | GAC | Result | Outlier | Notes |
|---------------|-----------|-----|--------|---------|--|
| 57629/TP#3-1 | Arsenic | 37 | 43.6 | No | The outlier tests show that the values belong to the population at all confidence levels (1%, 5% and 10%). The exceedance is not considered to be problematic to human health. |
| 57629/TP#6-1 | Lead | 200 | 202 | Yes | Although there is an exceedance of the C4SL and the value is noted as an outlier the exceedance is very minor and not considered to be problematic on this basis. The soil material is not considered problematic on this basis. |
| 57629/TP#14-1 | Arsenic | 37 | 40.7 | No | The outlier tests show that the values belong to the population at all confidence levels (1%, 5% and 10%). The exceedance is not considered to be problematic to human health. |

Table 10.5 Human Health Summary

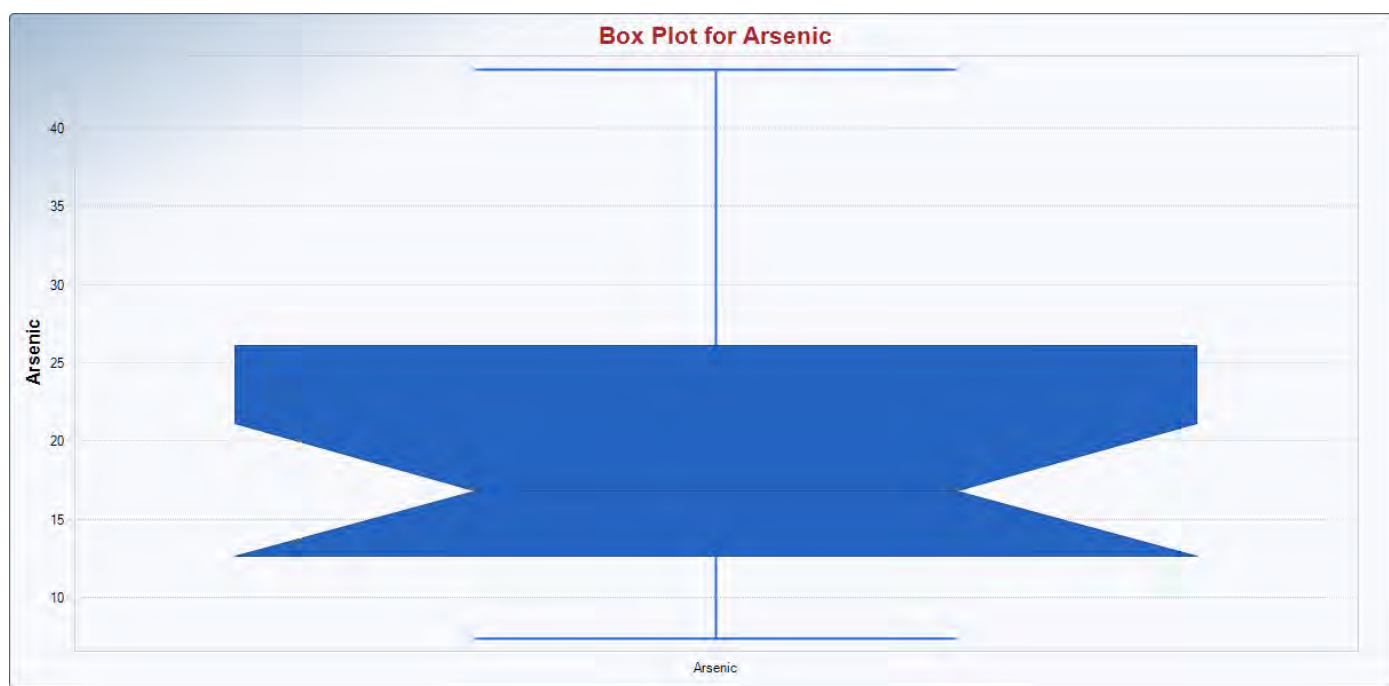


Figure 10.2 Arsenic Box Plot

10.6.4 The box plot above shows the values for Arsenic all fall within the expected distribution. No outliers are noted.

10.6.5 The value of 202mg/kg is a minor exceedance of the Lead C4SL and is not considered to be problematic even though it is a statistical outlier.

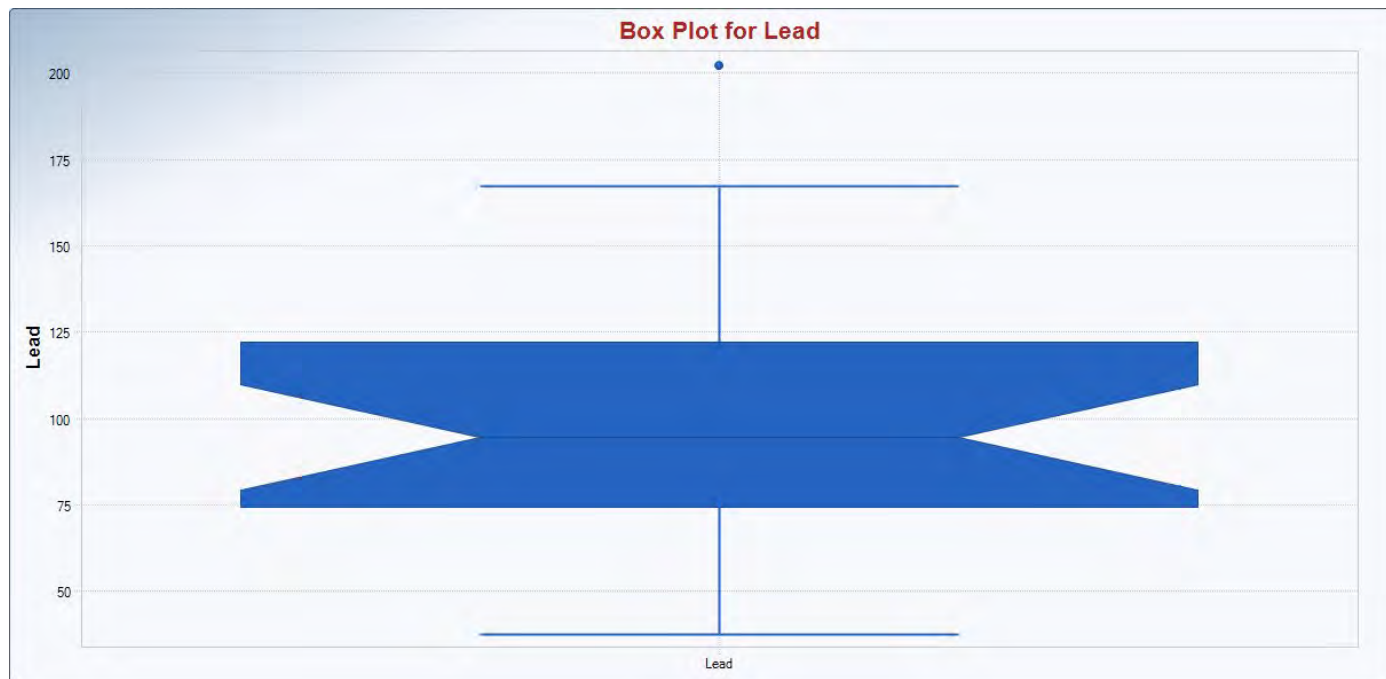


Figure 10.3 Lead Box Plot

10.6.6 The box plot for Lead is presented and the statistical outlier is noted on the graph.

10.6.7 From the information presented the site has no contamination associated with it and the soils are suitable for use with regard to a residential development.

10.6.8 The results relate only to the samples analysed. The assessments relate only to the results presented. The risk of impact to Human Health by soil contamination is **Negligible**.

10.7 Sulfate Classification

10.7.1 The sulfate classification with regard to the soil samples tested show a maximum BRE SD1 classification of DS-1 AC-3z, with the maximum result from the 18No. groundwater samples being DS-2 AC-2 (appendix N).

| Sample | DS Classification (BRE SD1) | ACEC Classification (BRE SD1) | Sample | DS Classification (BRE SD1) | ACEC Classification (BRE SD1) |
|--------|-----------------------------|-------------------------------|---------|-----------------------------|-------------------------------|
| TP#1-1 | DS-1 | AC-1 | TP#16-1 | DS-1 | AC-1 |
| TP#1-2 | DS-1 | AC-2z | TP#16-2 | DS-1 | AC-1 |
| TP#1-3 | DS-1 | AC-2z | TP#17-1 | DS-1 | AC-2z |
| TP#2-1 | DS-1 | AC-2z | TP#17-2 | DS-1 | AC-2z |
| TP#2-2 | DS-1 | AC-2z | TP#18-1 | DS-1 | AC-2z |
| TP#2-3 | DS-1 | AC-1 | TP#18-2 | DS-1 | AC-1 |
| TP#2-5 | DS-1 | AC-1 | TP#19-1 | DS-1 | AC-2z |
| TP#3-1 | DS-1 | AC-2z | TP#19-2 | DS-1 | AC-1 |
| TP#3-2 | DS-1 | AC-1 | TP#20-1 | DS-1 | AC-2z |
| TP#4-1 | DS-1 | AC-2z | TP#20-2 | DS-1 | AC-1 |
| TP#4-2 | DS-1 | AC-3z | TP#20-3 | DS-1 | AC-2z |
| TP#4-4 | DS-1 | AC-2z | TP#21-1 | DS-1 | AC-2z |
| TP#5-1 | DS-1 | AC-2z | TP#21-2 | DS-1 | AC-1 |
| TP#5-2 | DS-1 | AC-2z | TP#22-1 | DS-1 | AC-1 |
| TP#6-1 | DS-1 | AC-1 | TP#22-2 | DS-1 | AC-1 |
| TP#6-2 | DS-1 | AC-1 | TP#22-3 | DS-1 | AC-1 |
| TP#7-1 | DS-1 | AC-2z | TP#23-1 | DS-1 | AC-2z |
| TP#7-2 | DS-1 | AC-2z | TP#23-2 | DS-1 | AC-1 |

| | | | | | |
|---------|------|-------|---------|------|-------|
| TP#8-1 | DS-1 | AC-2z | TP#23-3 | DS-1 | AC-1 |
| TP#8-2 | DS-1 | AC-1 | TP#24-1 | DS-1 | AC-1 |
| TP#8-3 | DS-1 | AC-3z | TP#24-2 | DS-1 | AC-3z |
| TP#9-1 | DS-1 | AC-1 | TP#24-3 | DS-1 | AC-3z |
| TP#9-2 | DS-1 | AC-1 | BH#1 | DS-2 | AC-2 |
| TP#10-1 | DS-1 | AC-1 | BH#2 | DS-1 | AC-1 |
| TP#10-2 | DS-1 | AC-1 | BH#3 | DS-1 | AC-1 |
| TP#10-3 | DS-1 | AC-1 | BH#4 | DS-1 | AC-1 |
| TP#11-1 | DS-1 | AC-2z | BH#5 | DS-1 | AC-1 |
| TP#11-2 | DS-1 | AC-2z | BH#6 | DS-1 | AC-1 |
| TP#11-3 | DS-1 | AC-2z | BH#7 | DS-2 | AC-2 |
| TP#12-1 | DS-1 | AC-2z | BH#8 | DS-2 | AC-2 |
| TP#12-2 | DS-1 | AC-2z | BH#11 | DS-1 | AC-1 |
| TP#12-3 | DS-1 | AC-3z | BH#12 | DS-1 | AC-1 |
| TP#13-1 | DS-1 | AC-1 | BH#13 | DS-1 | AC-1 |
| TP#13-2 | DS-1 | AC-1 | BH#14 | DS-1 | AC-1 |
| TP#13-3 | DS-1 | AC-3z | BH#15 | DS-1 | AC-1 |
| TP#14-1 | DS-1 | AC-2z | BH#17 | DS-1 | AC-1 |
| TP#14-2 | DS-1 | AC-2z | BH#18 | DS-1 | AC-1 |
| TP#14-3 | DS-1 | AC-1 | BH#19 | DS-2 | AC-2 |
| TP#15-1 | DS-1 | AC-2z | BH#21 | DS-1 | AC-1 |
| TP#15-2 | DS-1 | AC-1 | BH#22 | DS-1 | AC-1 |
| TP#15-3 | DS-1 | AC-1 | | | |

Table 10.7 Sulfate Testing Summary

10.8 Geotechnical Interpretation

10.8.1 Comments by **Michael Evans & Associates Ltd** (Subject to a future investigation of the coal seams below the site): For assumed foundation loads (including suspended ground floor construction) in the order of 60kN/m², it is expected that the various stiff clay strata on site would be a suitable formation for traditional strip / trench foundations. For design purposes an allowable net increase in bearing pressure of 125kN/m² at a minimum depth of 1.0m below ground level is suggested (Appendix Q). It is recommended that foundation depths are checked and increased if necessary, against the NHBC's guideline for building near trees (Appendix Q).

10.8.2 As such the development plan and spatial distribution on site need to be considered prior to determining any future geotechnical, waste or intrusive testing on the site, e.g. plasticity indices, coal seam investigation, WAC testing, etc.

10.8.3 With regard to the sensitivity on the site and the close proximity to a special waste landfill it is recommended that a stand-off zone for proposed structures is undertaken. An arbitrary value of 10.00m is suggested from the southern boundary (Zones A, B and the southwestern boundary of Zone C) and western boundaries of Zones D and E.

10.8.4 Zone E appears to have a particularly high water table and was previously considered (Nicholls Colton Report dated January 2002, Ref: LR G01177) to be suitable for Public Open Space.

10.8.5 A prudent developer would give further consideration to geotechnical information that could be obtained at a higher resolution, this would also give a clearer understanding of the likely influence of shallow coal seams.

10.9 Conceptual Model Revision

10.9.1 The revised Conceptual Model is presented below:

| Source & Contaminant | Activated Pathways | Receptor | Probability, Consequence | Possible Mitigating Comment |
|--|--|-----------------------------|----------------------------|---|
| Upper Strata PAH, Heavy Metals, Asbestos, CO ₂ , CH ₄ . | Inhalation of dusts/vapours/fibres. Direct Contact. | Human Health (End Users) | <i>High. Mild.</i> | NEGLIGIBLE TO LOW RISK No chemical or physical contamination is associated with the soils. NEGLIGIBLE RISK . The Characteristic Gas Situation identified is LOW RISK CS2 as per BS8485:2015. |
| Coal Bearing Strata Carbon Dioxide Methane Hydrogen Sulphide | Migration, inhalation. | Human Health (End Users) | <i>Low. Mild.</i> | LOW RISK Coal exists below the site but is not expected to be producing vast concentrations of gas. Low flow rates and generally low concentrations of ground gas has been identified, please read the text for the issues regarding BH#7. |
| Upper Strata Sulfates | Attack on buried concrete | Buildings. | <i>Low. Medium.</i> | LOW RISK The sulfate classification with regard to the 24No. soil samples tested show a maximum BRE SD1 classification of DS-1 AC-3z, with the maximum result from the 18No. groundwater samples being DS-2 AC-2. An appropriate Concrete Mix should be adopted. |
| Upper Surface PAH, Heavy Metals, Asbestos, CO ₂ , CH ₄ . | Inhalation of dusts/vapours/fibres. Direct Contact. | Human Health (Site Workers) | <i>Low. Mild.</i> | LOW RISK Testing of samples taken during KCMTs trial pitting exercise show that the levels of contaminants in the surface materials are low with some minor exceedances. Consideration of the Methane values at BH#7 should be taken when developing or carrying out groundworks in this area. |
| Made Ground Strata Carbon Dioxide Methane Hydrogen Sulphide | Migration, inhalation. | Human Health (End Users) | <i>Negligible. Severe.</i> | LOW RISK Low volumes of Made Ground were encountered on site during KCMTs trial pitting and cable percussive borehole drilling exercises. |
| Natural Strata Radon Gas | Migration, inhalation. | Human Health (End Users) | <i>Negligible. Severe.</i> | MODERATE/LOW RISK Radon is not expected to be present at actionable levels, no radon protection measures are required in new dwellings or extensions and as such, the risk is expected to be LOW . |

Notes: No impact to Controlled Waters is expected and as such is not included in the above table.

11 Conclusion

11.1 Contamination and Waste Summary

11.1.1 The strata on site is not affected by significant contamination and so the site presents a **negligible** risk to human health from on-site contamination.

11.1.2 Gas monitoring undertaken by KCMT suggests no problematic concentrations of ground gases or flow rates of gasses in all boreholes excluding BH#7.

11.1.3 BH#7 has shown levels of CH₄ on every monitoring visit, consistently falling from the initial visit with a reading of 85.4% v/v to 2.6% v/v on the 9th visit. From this point the results were fairly steady at 2.6% v/v under a constant atmospheric pressure of 1003 mbar until the final visit when a result of 3.3% v/v was recorded at a lower atmospheric pressure of 993 mbar.

11.1.4 Due to the close proximity of the site to a former landfill, although there is no evidence of problematic ground gas levels or flow rates, it is considered that all zones of the site are designated as **Characteristic Gas Situation 2** (BS 8485:2015), however, further consideration is required for the area surrounding BH#7 (delineated by BH#6, BH#8 and BH#14).

11.1.5 The area surrounding BH#7 should be either:

- a) Considered as an alternative use, e.g. Public Open Space, Commercial (Type C or D Buildings), etc.; or
- b) Delineated further by the sinking of more ground gas monitoring points at a higher spatial resolution.

11.1.6 It is recommended that all dwellings have gas protective measures installed that are commensurate with BS8485:2015 and have AT LEAST 2No. levels of protective measures incorporated into the design. All remedial measures will require prior agreement with the local planning authority and subsequent verification to CIRIA C735.

11.1.7 Any gas resistant membranes that are installed are required to be of at least 2000-gauge and should be installed by personnel suitably qualified to at least NVQ level 2 for membrane installation.

11.1.8 It is recommended that the design incorporates a suitable structural barrier (e.g. reinforced cast *in situ* monolithic ground bearing raft or suspended floor slab with minimal service penetrations), a suitable ventilation measure (e.g. low fines sub-floor ventilation layer, vented to the atmosphere) and a suitable protection measure (2000-gauge membrane).

11.1.9 With regard to the sensitivity on the site and the close proximity to a special waste landfill it is recommended that a stand-off zone for proposed structures is undertaken. An arbitrary value of 10.00m is suggested from the southern boundary (Zones A, B and the southwestern boundary of Zone C) and western boundaries of Zones D and E.

11.1.10 There is unlikely to be a risk presented to underground services as the site is unlikely to present a risk to water supply pipes.

11.1.11 If any soil or aggregate material is to be imported to the site for use on the site, then it must be certified and suitable for use.

11.1.12 For any off-site disposal requirements: The materials are deemed as **Non-Hazardous 17 05 04 Soil and Stones**. Further testing may be required if the developer requires the material to be assessed as Inert or not.

11.1.13 The design sulfate class for concrete should be considered as the worst-case for the site and is presented as DS-2 AC-2.

11.2 Foundation Recommendations

11.2.1 A preliminary assessment of the investigation data by Mike Evans and Associates is presented in the Appendices and is summarised as:

11.2.2 (Subject to a future investigation of the coal seams below the site): For assumed foundation loads (including suspended ground floor construction) in the order of 60kN/m², it is expected that the various stiff clay strata on site would be a suitable formation for traditional strip / trench foundations. For design purposes an allowable net increase in bearing pressure of 125kN/m² at a minimum depth of 1.0m below ground level is suggested (Appendix Q). It is

recommended that foundation depths are checked and increased if necessary, against the NHBC's guideline for building near trees (Appendix Q).

11.3 Further Work Required.

11.3.1 Prior to development commencing it is expected that additional works may be required:

- **Further monitoring of the site for ground gas should continue for an additional 6 months, upon the completion of this an addendum report will be issued updating the ground gas conclusions;**
- **Any remaining issues with regard to the spatial distribution of properties and the presence of shallow (<30m) coal, the Coal Authority will most likely require further information on this, i.e. development specific data;**
- **Although some have previously been carried out, Rotary boreholes may be required by the Coal Authority to investigate the presence of coal seams below the site and to provide a development specific assessment;**
- **Further WAC (inert classification) testing for materials that may require off-site disposal;**
- **For materials that are to be re-used on site the Development Code of Practice for Soils (DEFRA, 2009) should be considered as a guiding document as the mishandling of soils, especially topsoil, can significantly affect its performance;**
- **Possible further delineation of the ground gas affected BH#7 area.**

Quick Reference Checklist

| | |
|--|---|
| Desk Study Carried Out? | Yes |
| Risk to Human Health from Soil? | Negligible |
| Risk to Human Health from Ground Gas? | Low (SI ongoing) |
| Risk to Controlled Waters from site? | Negligible |
| Risk to Water Pipes? | Negligible |
| Intrusive Investigation Required? | Completed |
| Ground Gas Monitoring Required? | Ongoing |
| Radon Gas Protection Measures Required? | No |
| Requirement to Install Protective Measures to CS2 BS8485:2015 | Yes, to be updated |
| Requirement to Import Soils? | Possible |
| Site located in Coal Mining Area? | Yes |
| Site located in Coal Authority High Risk Development Area? | Yes |
| Investigation for Coal Seams/Voids/Workings required? | Yes |
| Remediation Statement to be prepared? | Yes, and must be agreed with the LPA |
| Verification Strategy to be completed after remedial works are complete? | Yes |

Next Steps Client Checklist

| | |
|--|--|
| Review | |
| Submit to Planning | |
| Comments Received | |
| Agree Scope of any Further Investigation with All Regulators | |
| Determine Remediation Strategy, Agree with All Regulators | |
| Carry Out Remediation | |
| Verify Remediation and Produce Report | |
| Send All Complete Reports to Planning Department | |

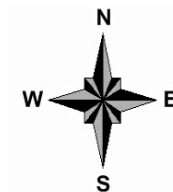
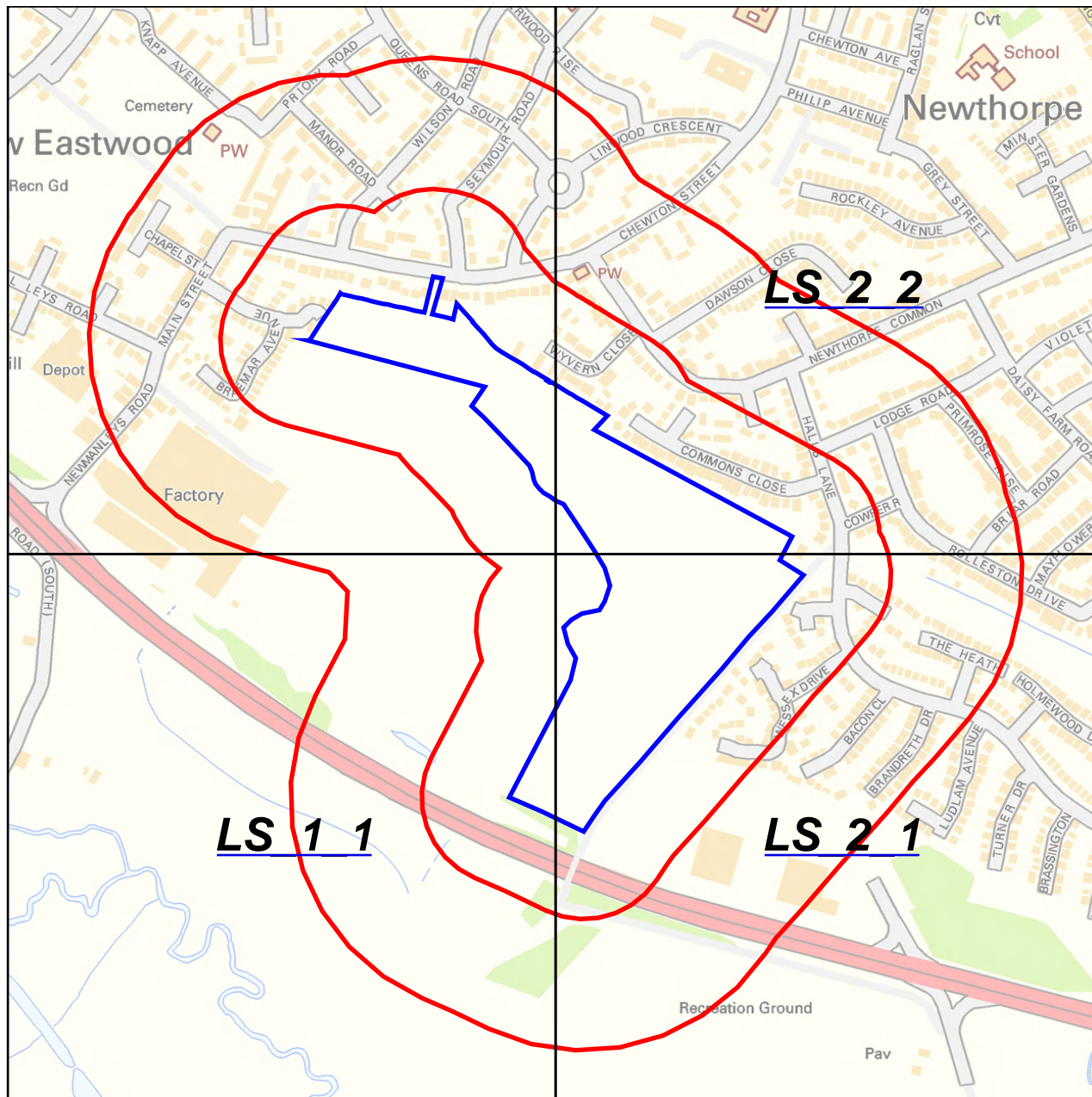
Appendix A

Site Plan



Appendix B

Historical Maps



1:2500 Scale Grid Index

Site Details:

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EASTWOOD, NG16 3JQ

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Report Ref: GS-4810344_LS_1_1
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Map Name: County Series

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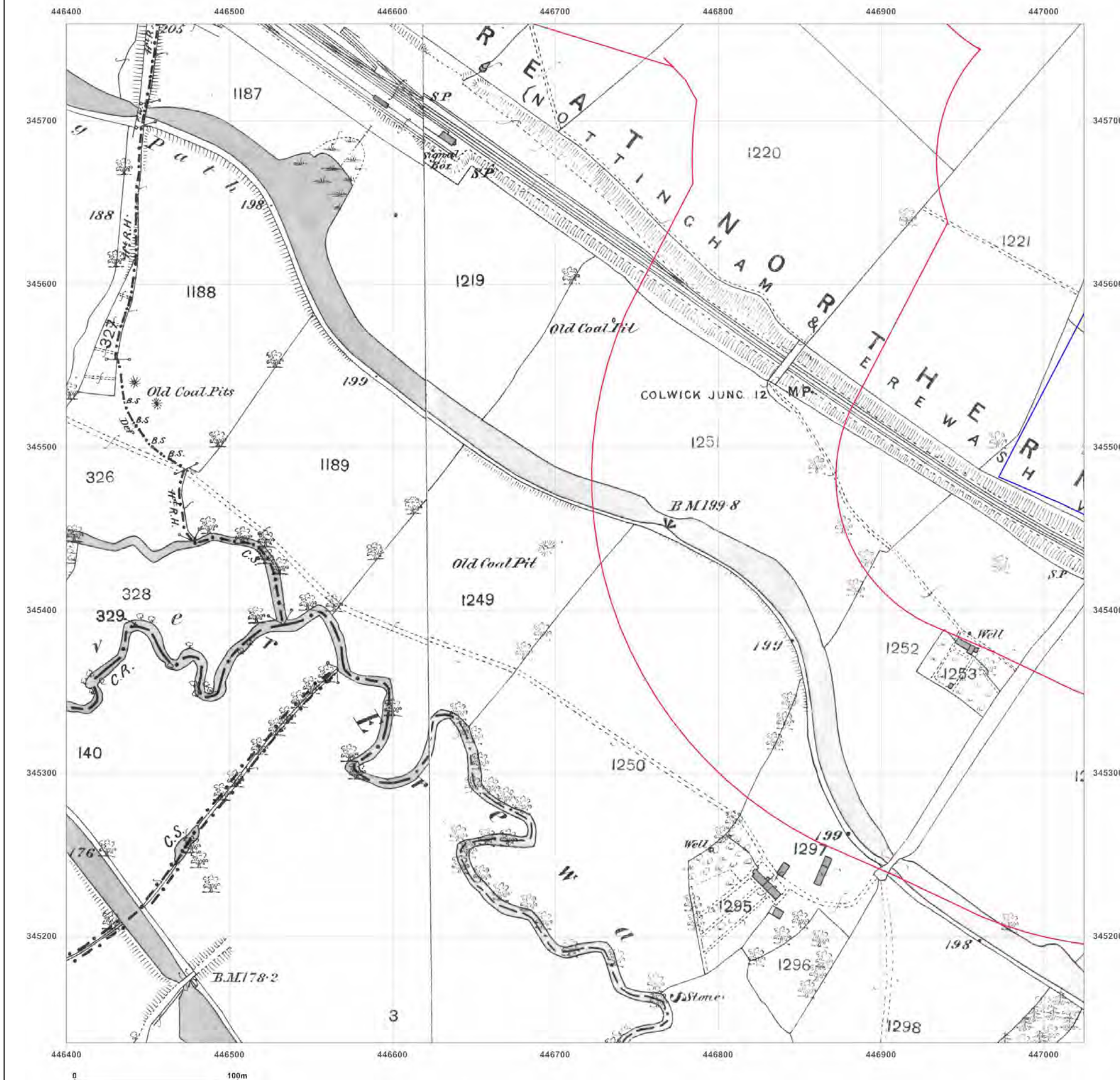


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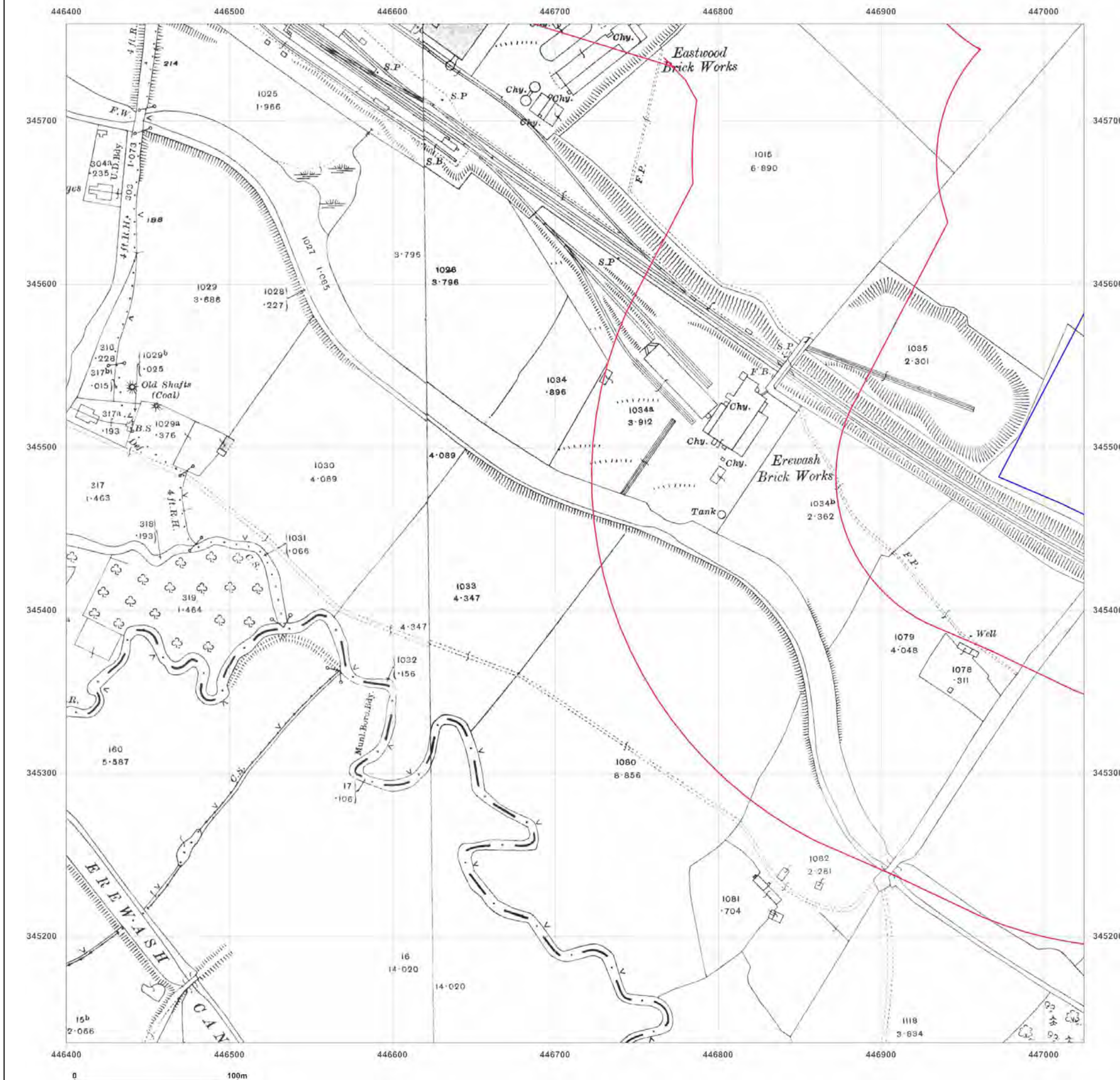


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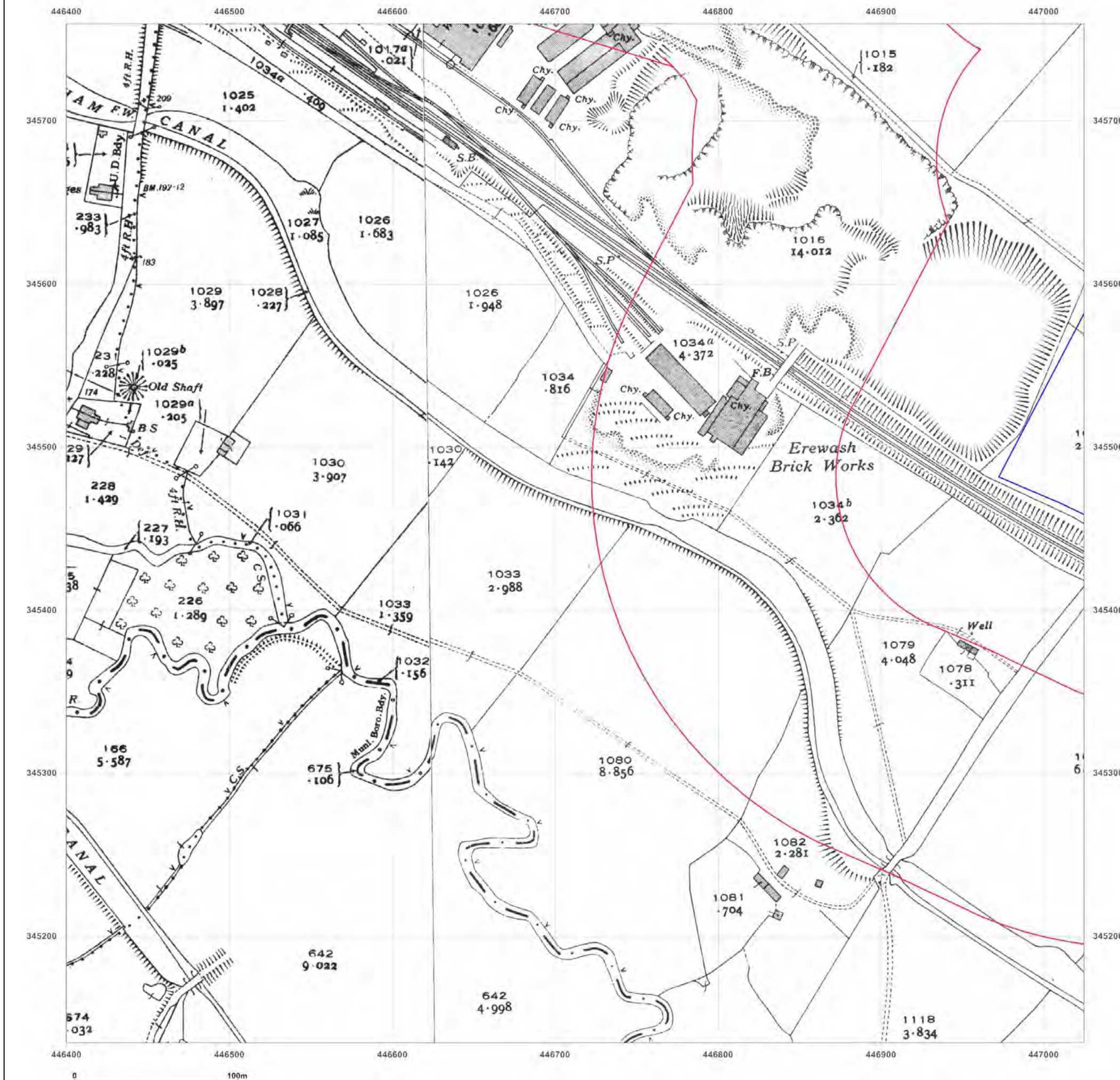


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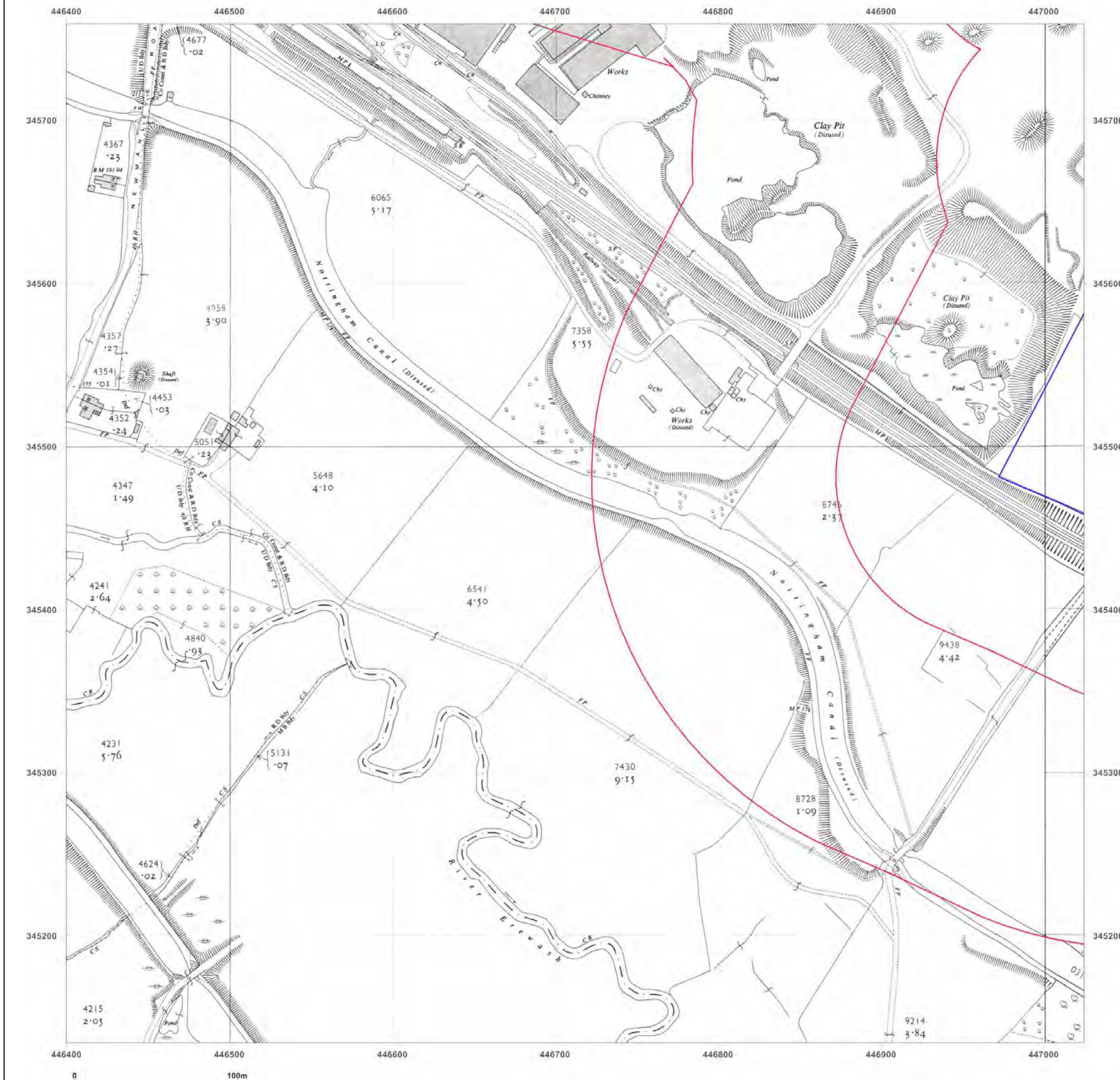


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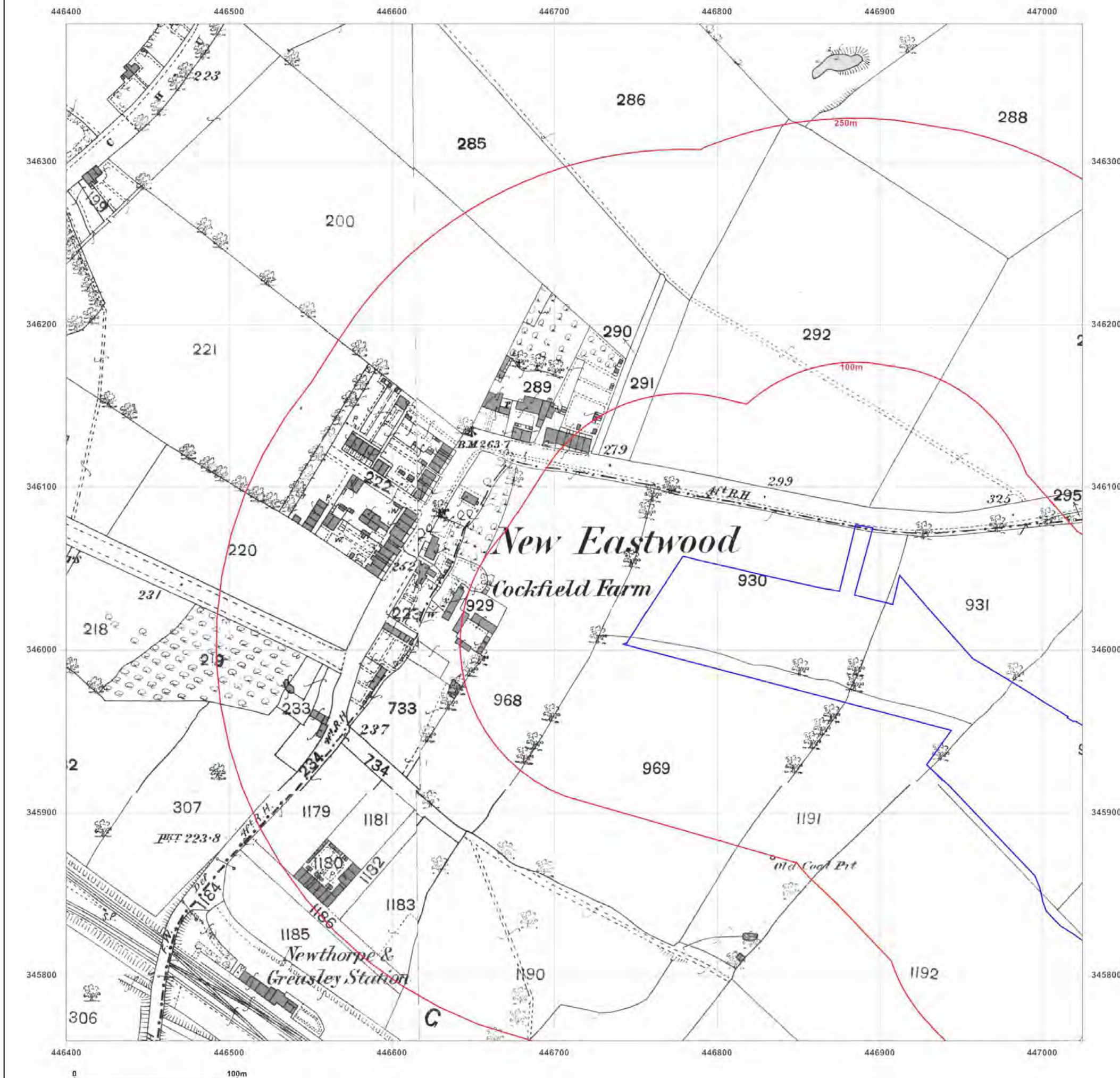


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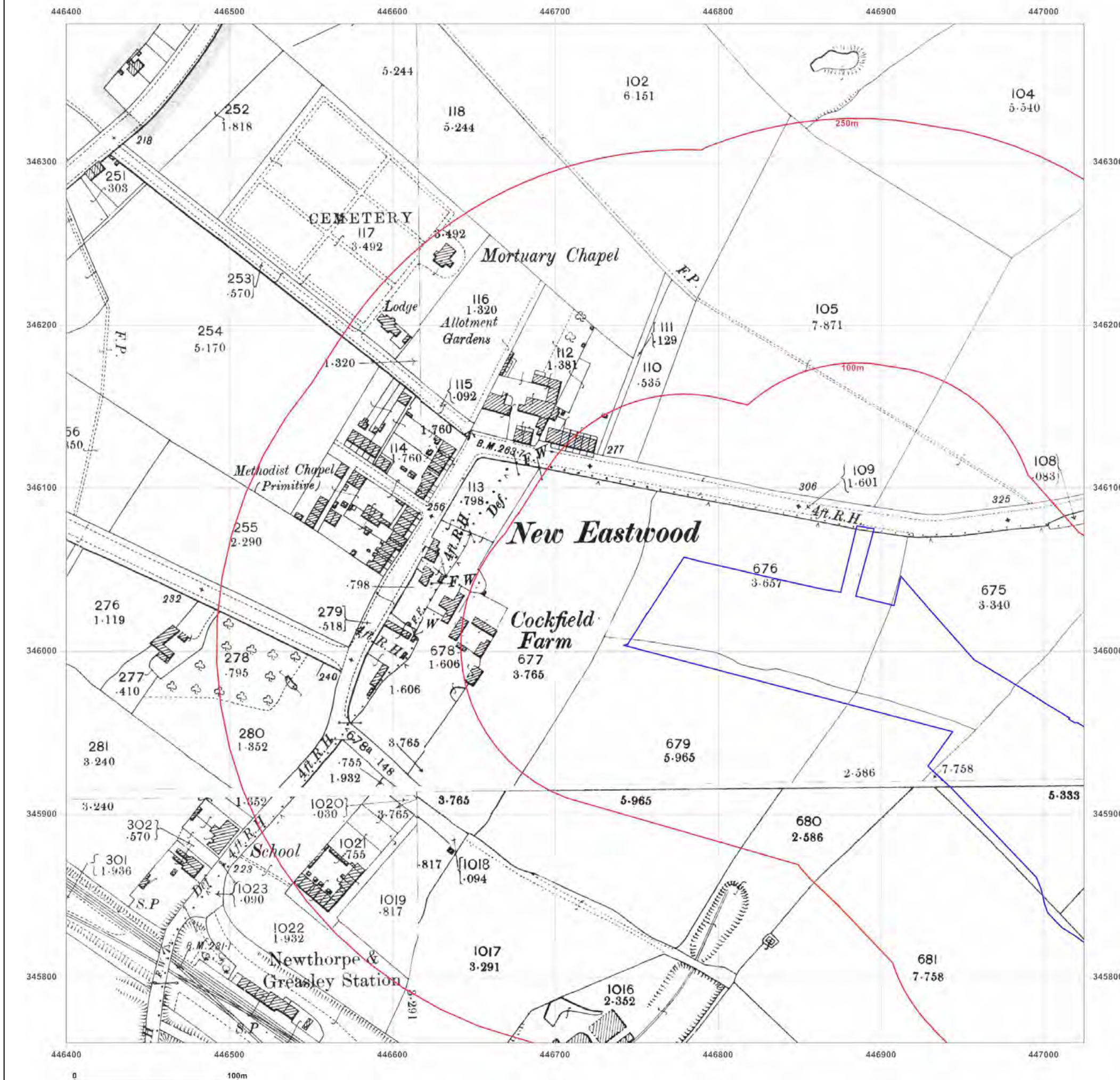


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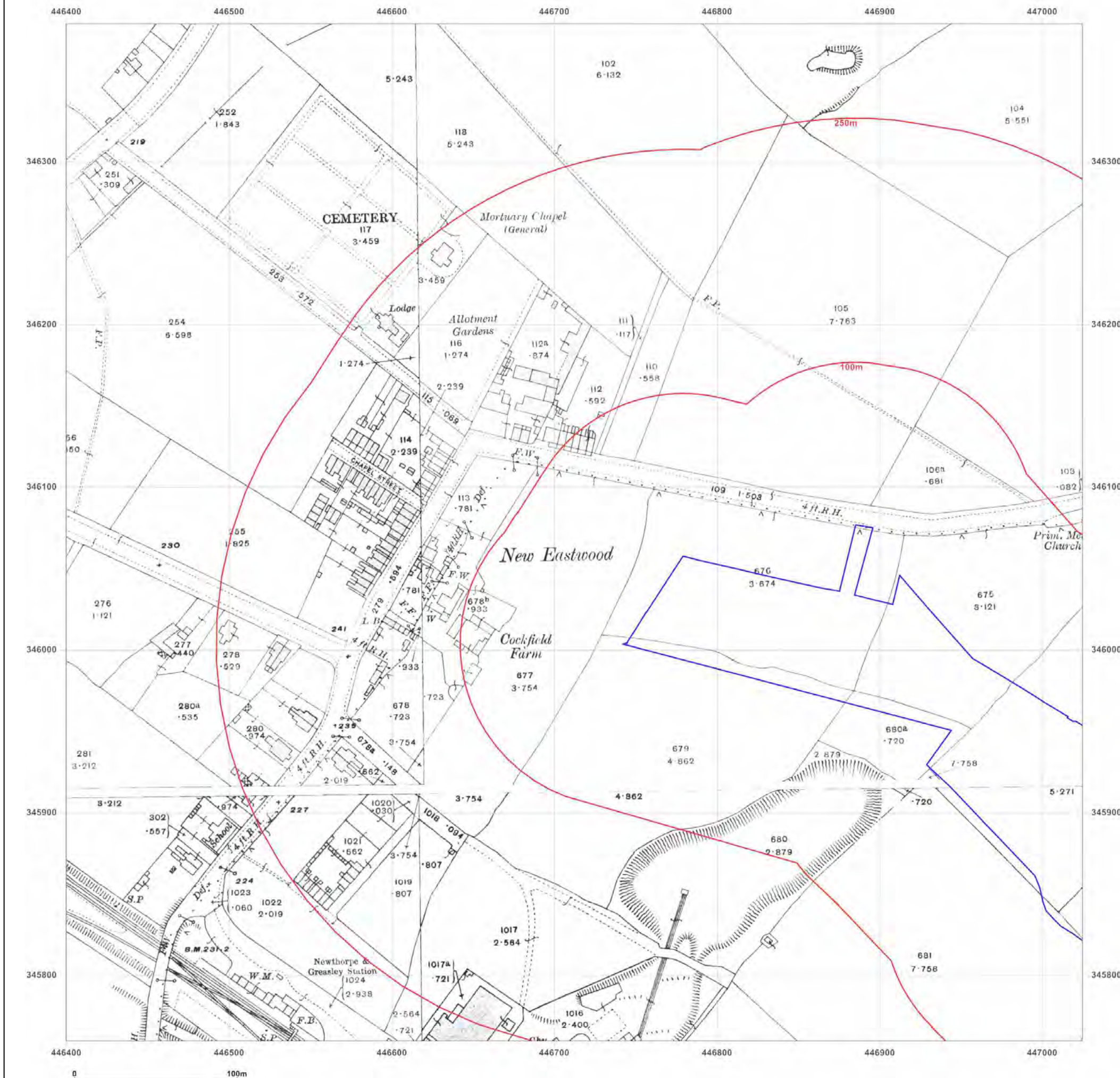


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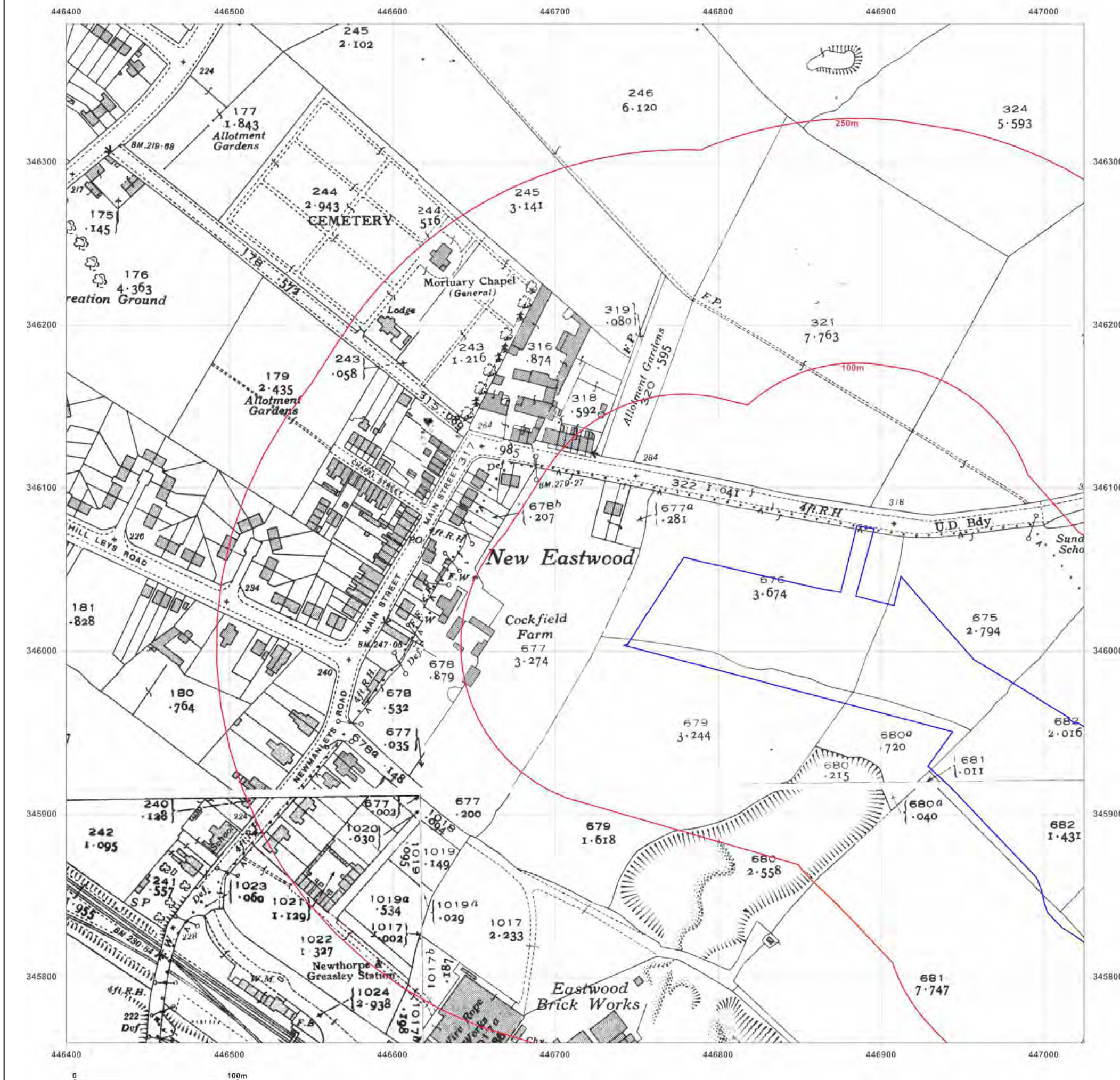


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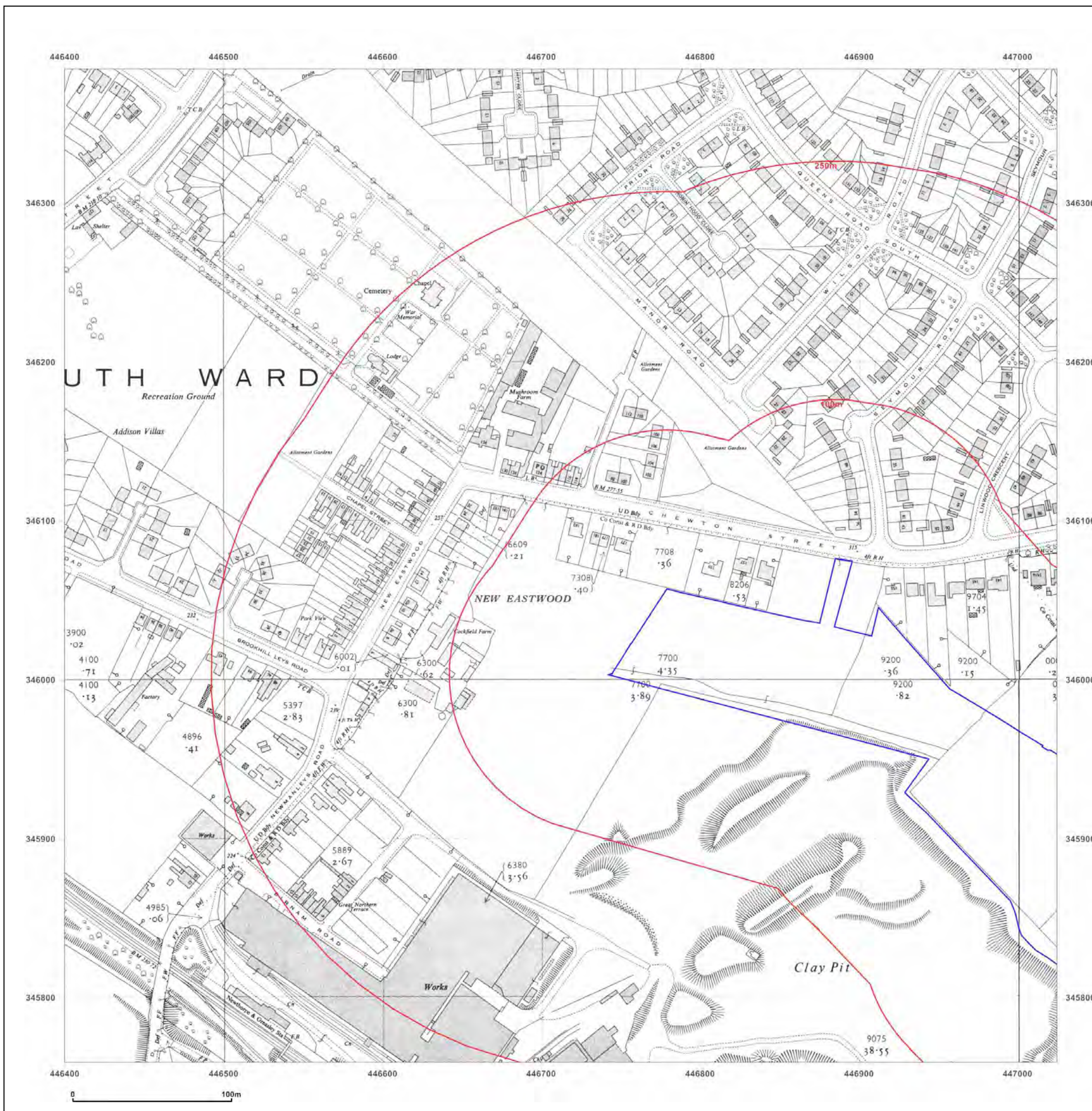


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77, CHEWTON STREET,
EASTWOOD, NG16 3JQ

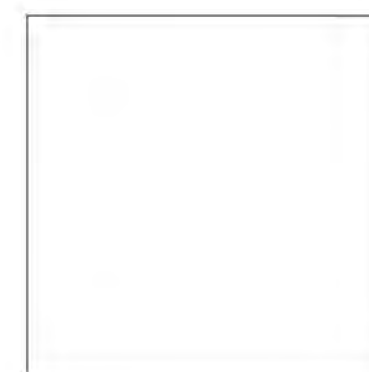
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Report Ref: GS-4810344_LS_2_1
Grid Ref: 447337, 345447

Map Name: County Series

Map date: 1881

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1881
Revised 1881
Edition N/A
Copyright N/A
Levelled N/A

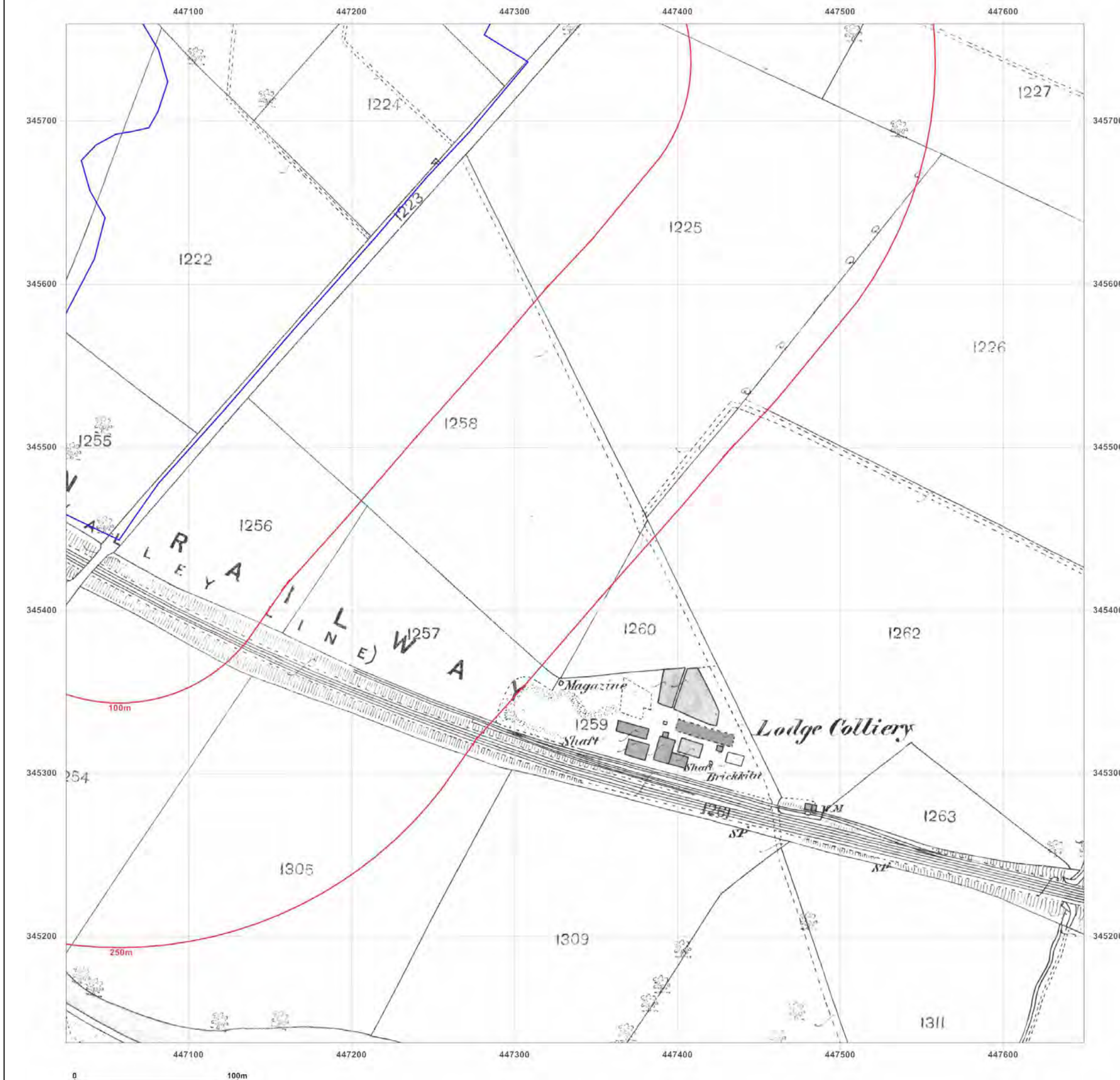


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Production date: 15 March 2018

Map legend available at:
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Site Details:

77, CHEWTON STREET,
EASTWOOD, NG16 3JQ

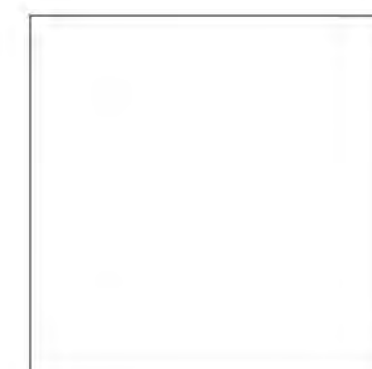
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Report Ref: GS-4810344_LS_2_1
Grid Ref: 447337, 345447

Map Name: County Series

Map date: 1900

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1900
Revised 1900
Edition N/A
Copyright N/A
Levelled N/A

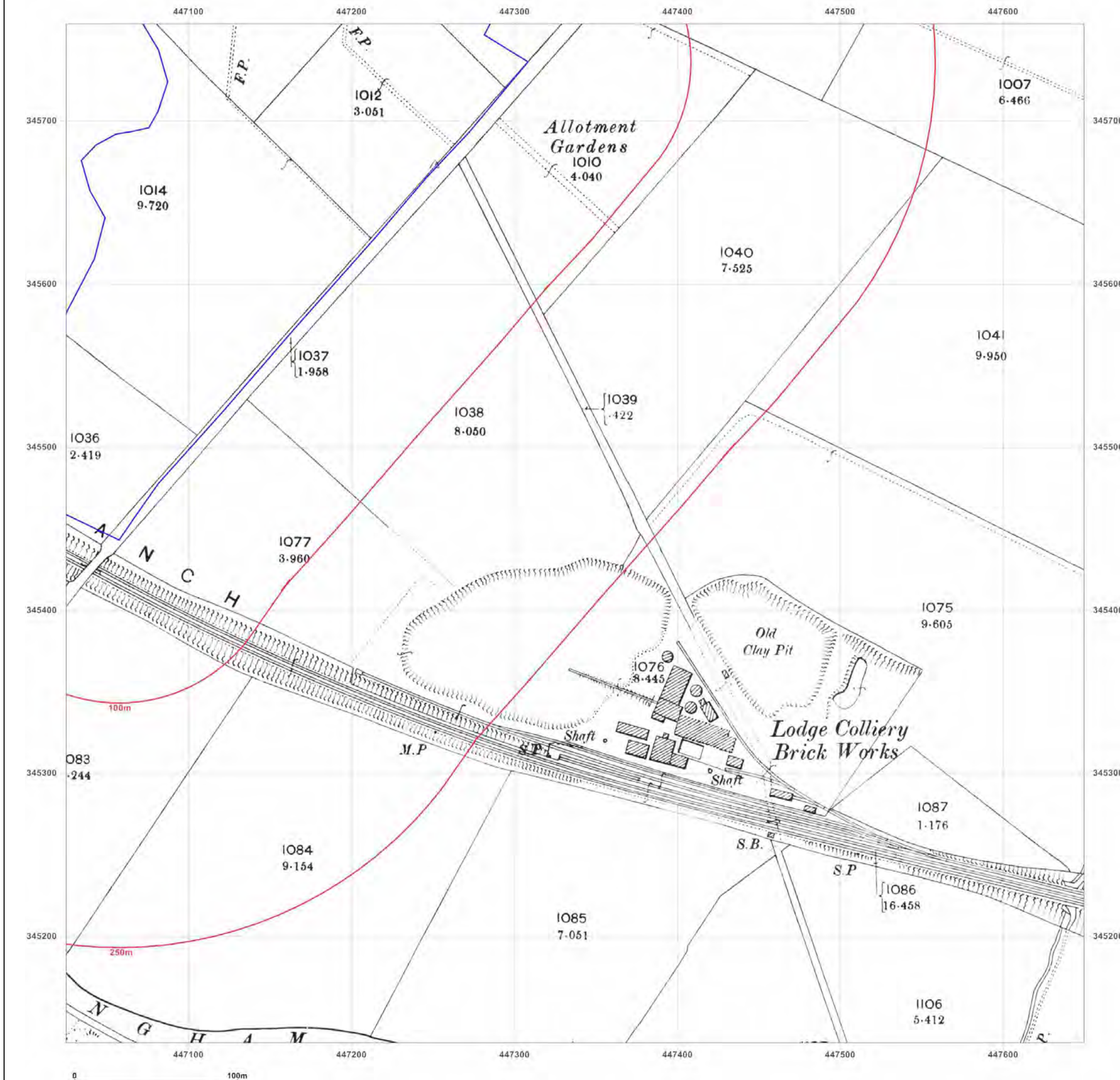


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Site Details:

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EASTWOOD, NG16 3JQ

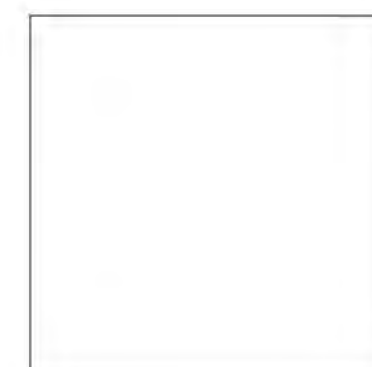
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Report Ref: GS-4810344_LS_2_1
Grid Ref: 447337, 345447

Map Name: County Series

Map date: 1915

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1915
Revised 1915
Edition N/A
Copyright N/A
Levelled N/A

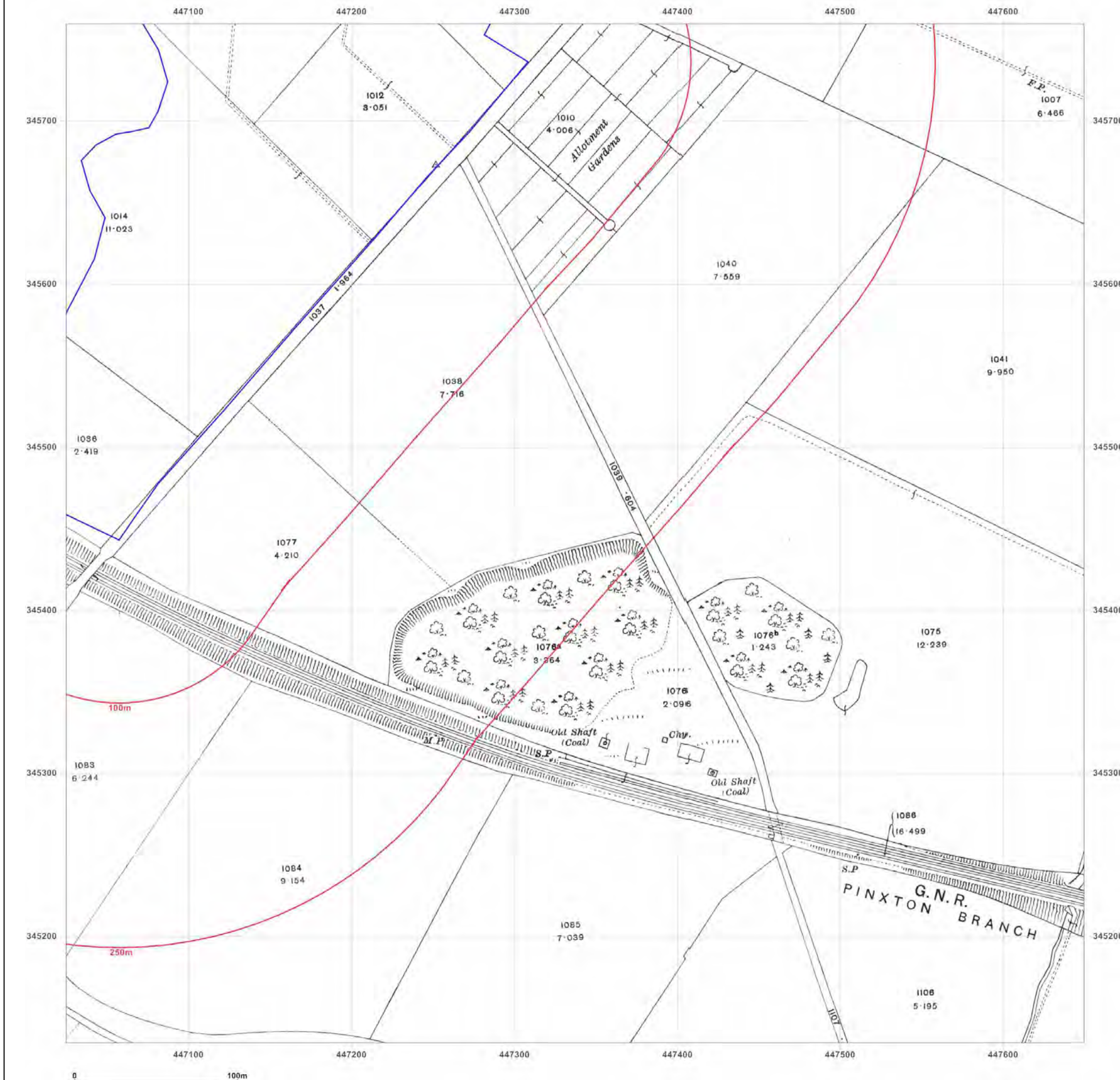


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Production date: 15 March 2018

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Site Details:

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EASTWOOD, NG16 3JQ

Client Ref: 57629_Eastwood
Report Ref: GS-4810344_LS_2_1
Grid Ref: 447337, 345447

Map Name: County Series

Map date: 1938

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1938
Revised 1938
Edition N/A
Copyright N/A
Levelled N/A

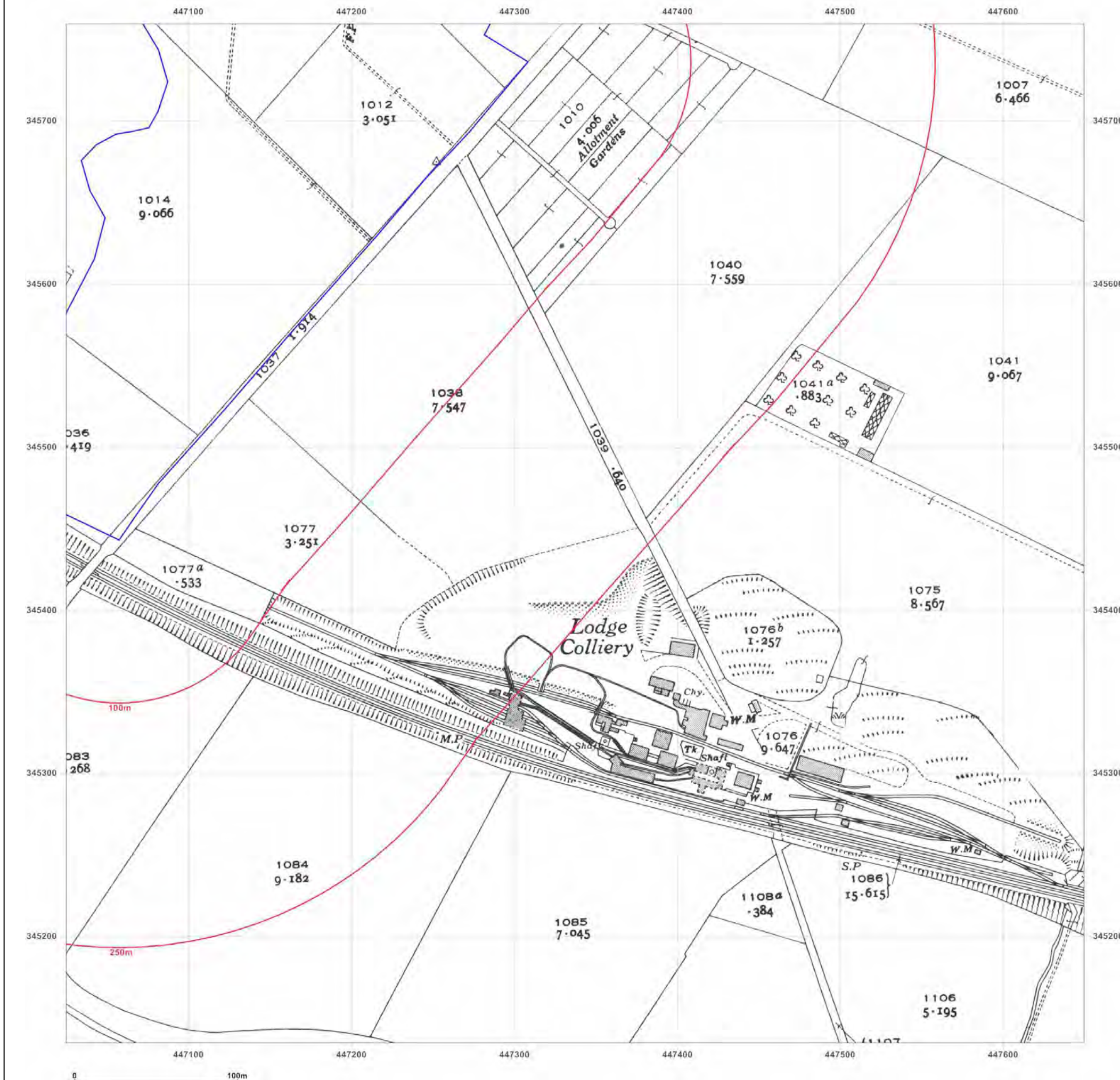


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Site Details:

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EASTWOOD, NG16 3JQ

Client Ref: 57629_Eastwood
Report Ref: GS-4810344_LS_2_1
Grid Ref: 447337, 345447

Map Name: National Grid

Map date: 1961

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1960
Revised 1961
Edition 1962
Copyright 1962
Levelled 1956



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Site Details:

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EASTWOOD, NG16 3JQ

Client Ref: 57629_Eastwood
Report Ref: GS-4810344_LS_2_1
Grid Ref: 447337, 345447

Map Name: National Grid

Map date: 1962

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

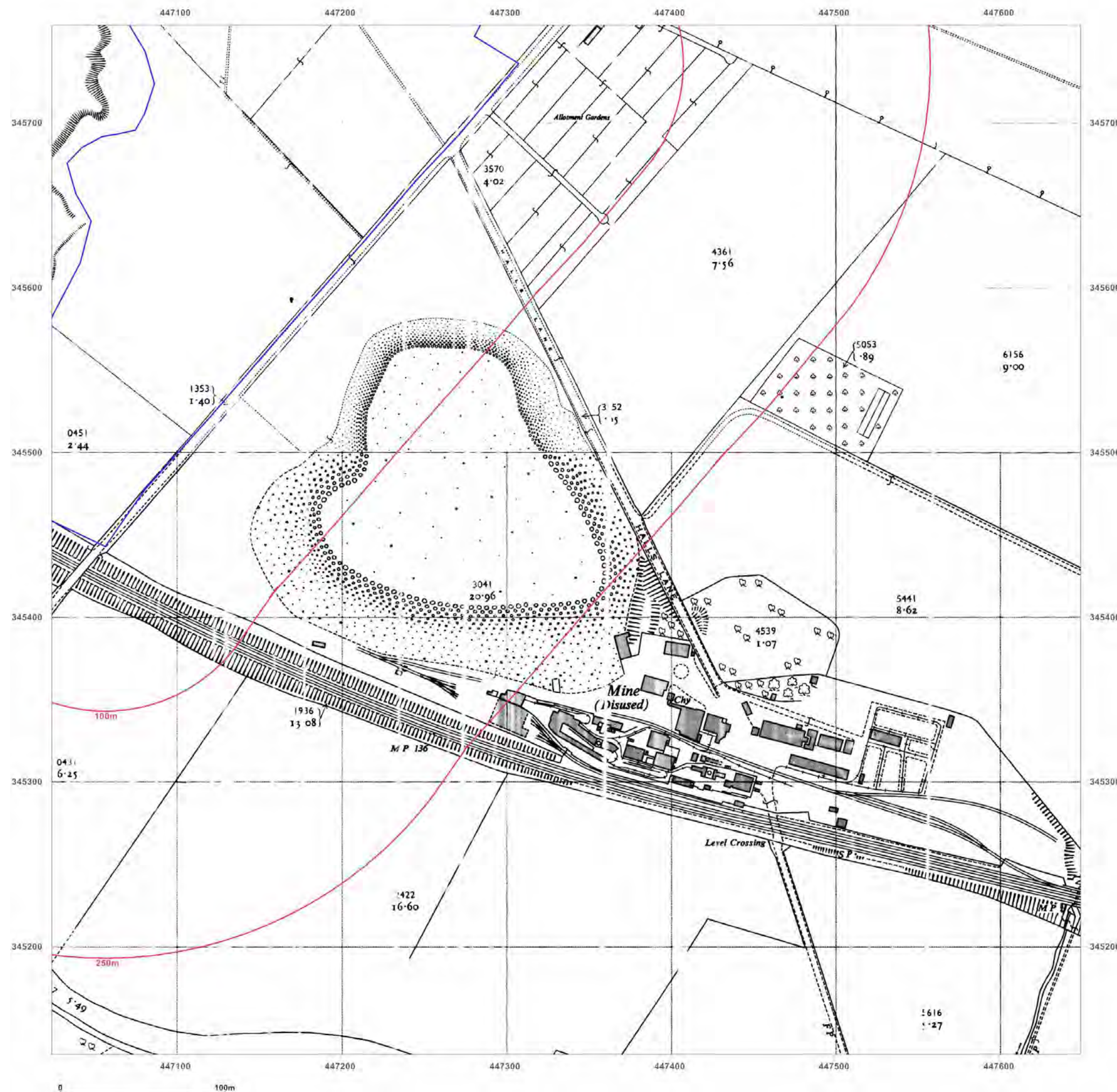


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Site Details:

77, CHEWTON STREET,
EASTWOOD, NG16 3JQ

Client Ref: 57629_Eastwood
Report Ref: GS-4810344_LS_2_2
Grid Ref: 447337, 346072

Map Name: County Series

Map date: 1880-1881

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1880
Revised 1880
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1881
Revised 1881
Edition N/A
Copyright N/A
Levelled N/A

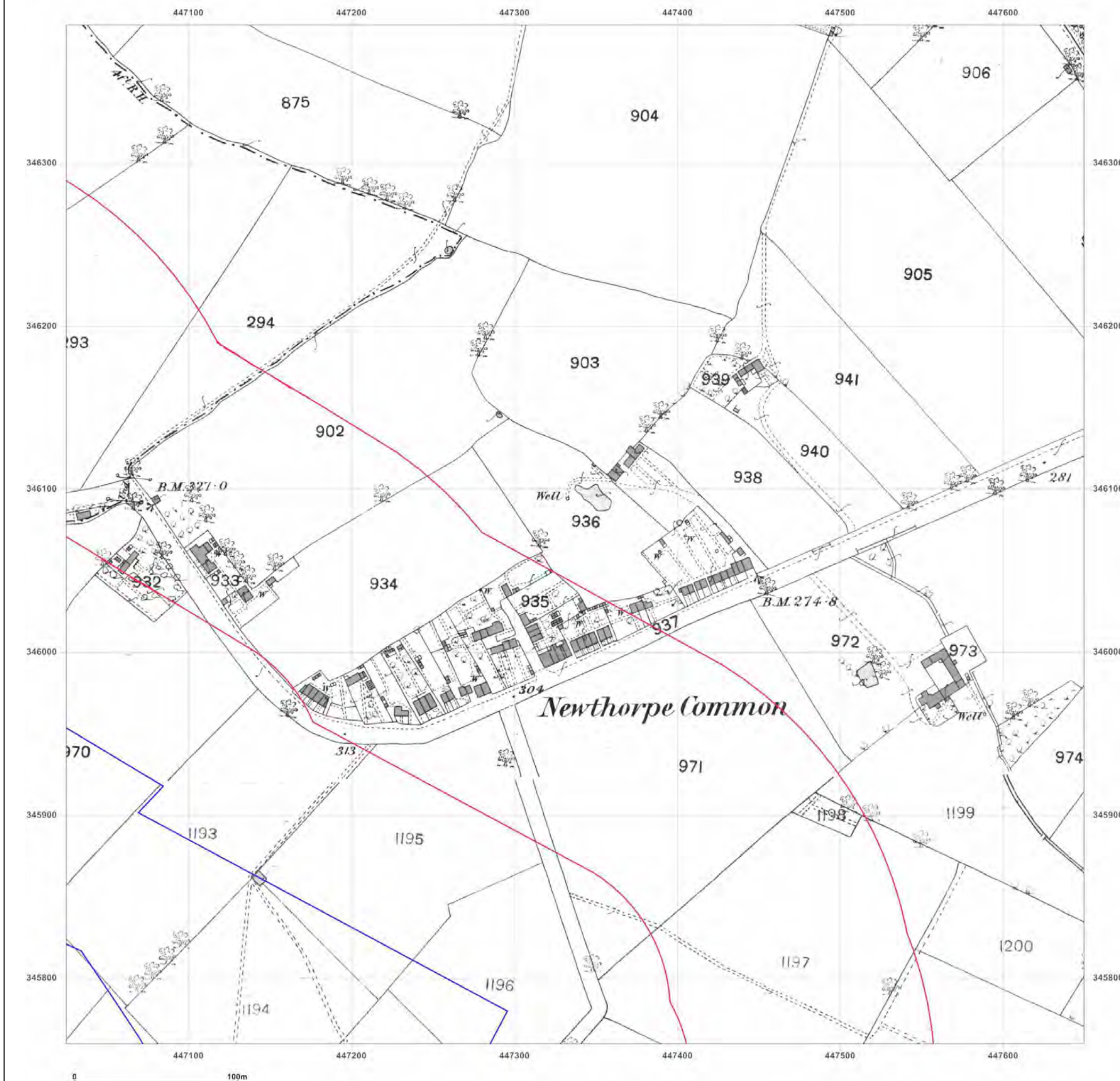


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Site Details:

77, CHEWTON STREET,
EASTWOOD, NG16 3JQ

Client Ref: 57629_Eastwood
Report Ref: GS-4810344_LS_2_2
Grid Ref: 447337, 346072

Map Name: County Series

Map date: 1900

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1900
Revised 1900
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1900
Revised 1900
Edition N/A
Copyright N/A
Levelled N/A



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Site Details:

77, CHEWTON STREET,
EASTWOOD, NG16 3JQ

Client Ref: 57629_Eastwood
Report Ref: GS-4810344_LS_2_2
Grid Ref: 447337, 346072

Map Name: County Series

Map date: 1915

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1915
Revised 1915
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1915
Revised 1915
Edition N/A
Copyright N/A
Levelled N/A

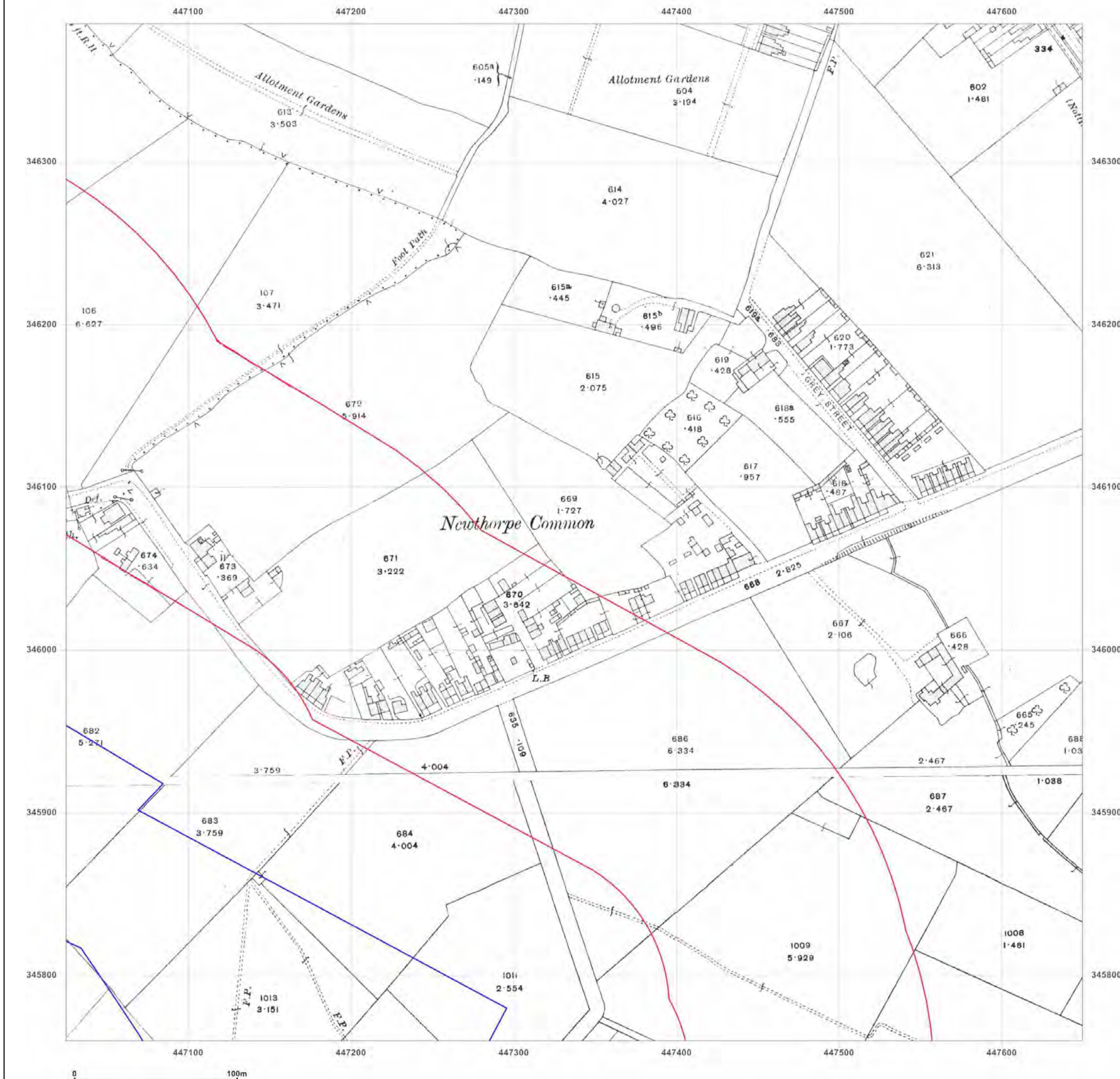


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Site Details:

77, CHEWTON STREET,
EASTWOOD, NG16 3JQ

Client Ref: 57629_Eastwood
Report Ref: GS-4810344_LS_2_2
Grid Ref: 447337, 346072

Map Name: County Series

Map date: 1938

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1938
Revised 1938
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1938
Revised 1938
Edition N/A
Copyright N/A
Levelled N/A



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Site Details:

77, CHEWTON STREET,
EASTWOOD, NG16 3JQ

Client Ref: 57629_Eastwood
Report Ref: GS-4810344_LS_2_2
Grid Ref: 447337, 346072

Map Name: National Grid

Map date: 1961

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1960
Revised 1961
Edition 1962
Copyright 1962
Levelled 1956

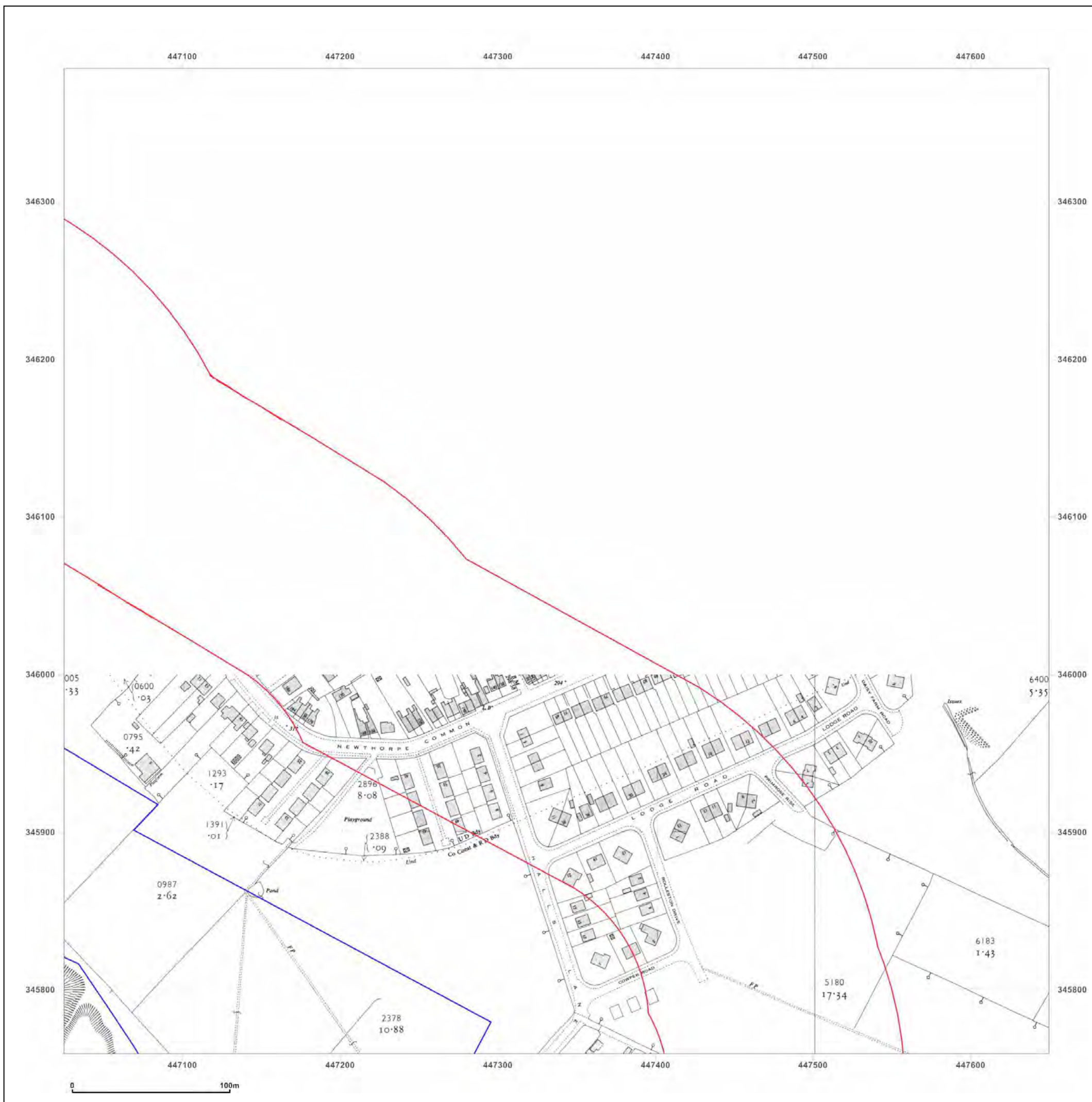


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Site Details:

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EASTWOOD, NG16 3JQ

Client Ref: 57629_Eastwood
Report Ref: GS-4810344_LS_2_2
Grid Ref: 447337, 346072

Map Name: National Grid

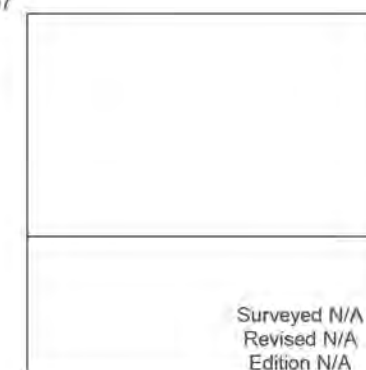
Map date: 1961-1962

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1961
Revised 1961
Edition 1962
Copyright 1962
Levelled 1957



Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A



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Site Details:

77, CHEWTON STREET,
EASTWOOD, NG16 3JQ

Client Ref: 57629_Eastwood
Report Ref: GS-4810344
Grid Ref: 447025, 345760

Map Name: County Series

Map date: 1885

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1880
Revised N/A
Edition 1885
Copyright N/A
Levelled N/A



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Site Details:

77, CHEWTON STREET,
EASTWOOD, NG16 3JQ

Client Ref: 57629_Eastwood
Report Ref: GS-4810344
Grid Ref: 447025, 345760

Map Name: County Series

Map date: 1885

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1880
Revised 1880
Edition 1885
Copyright N/A
Levelled N/A



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Site Details:

77, CHEWTON STREET,
EASTWOOD, NG16 3JQ

Client Ref: 57629_Eastwood
Report Ref: GS-4810344
Grid Ref: 447025, 345760

Map Name: County Series

Map date: 1899

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1879
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A

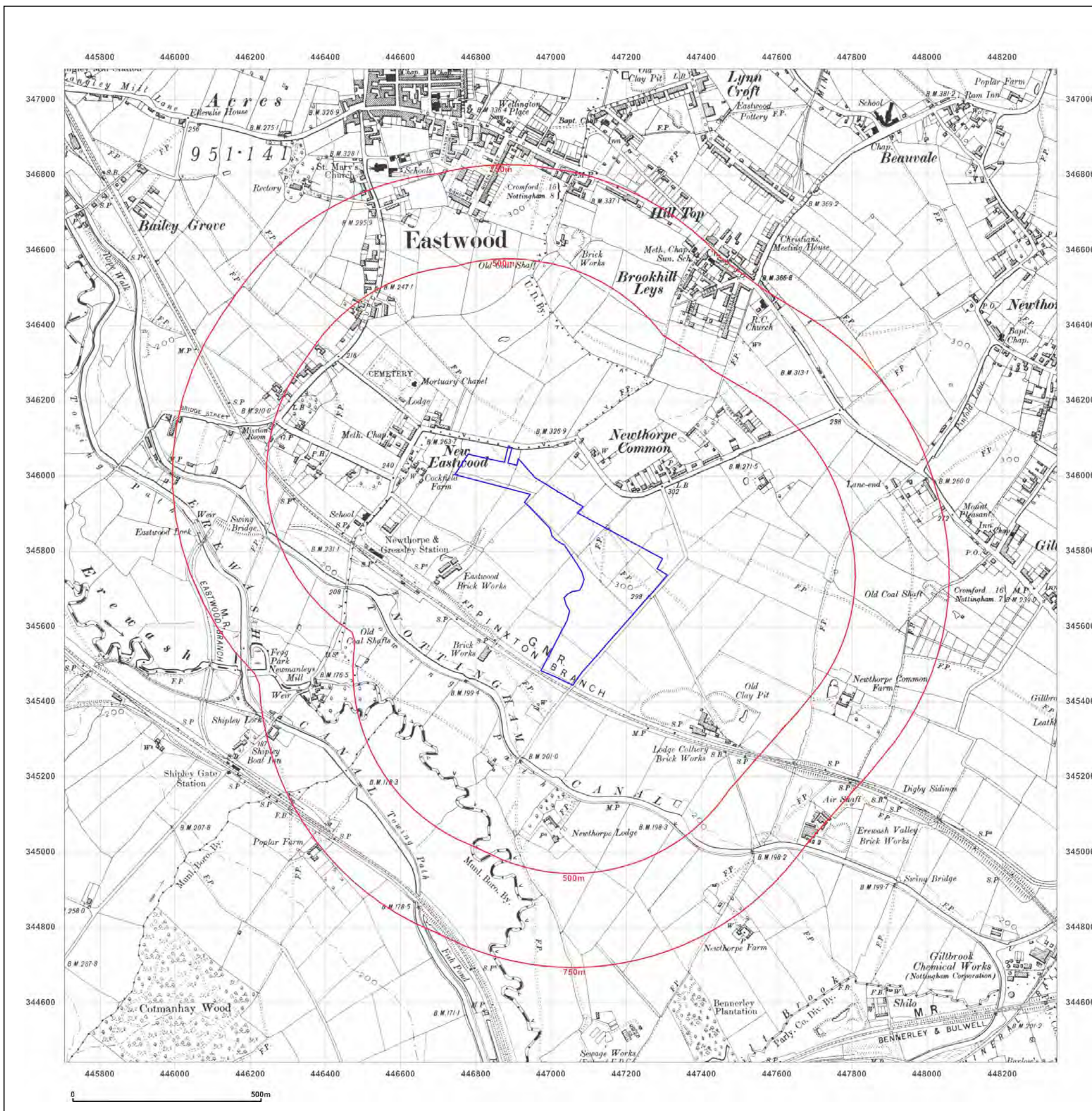


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Site Details:

77, CHEWTON STREET,
EASTWOOD, NG16 3JQ

Client Ref: 57629_Eastwood
Report Ref: GS-4810344
Grid Ref: 447025, 345760

Map Name: County Series

Map date: 1901

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1879
Revised 1899
Edition 1901
Copyright N/A
Levelled N/A

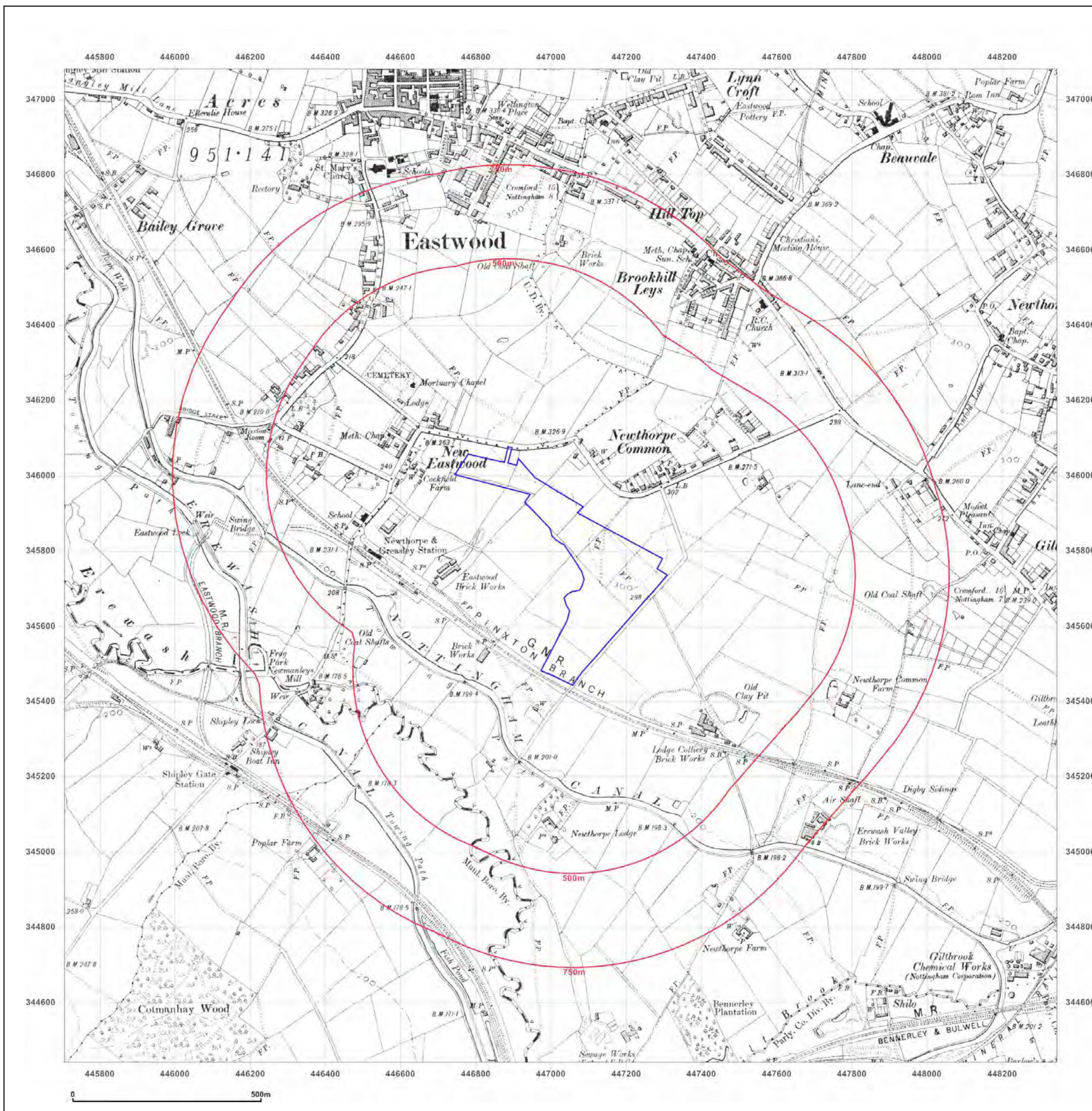


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Site Details:

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EASTWOOD, NG16 3JQ

Client Ref: 57629_Eastwood
Report Ref: GS-4810344
Grid Ref: 447025, 345760

Map Name: County Series

Map date: 1921

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1879
Revised 1913
Edition 1921
Copyright N/A
Levelled 1915

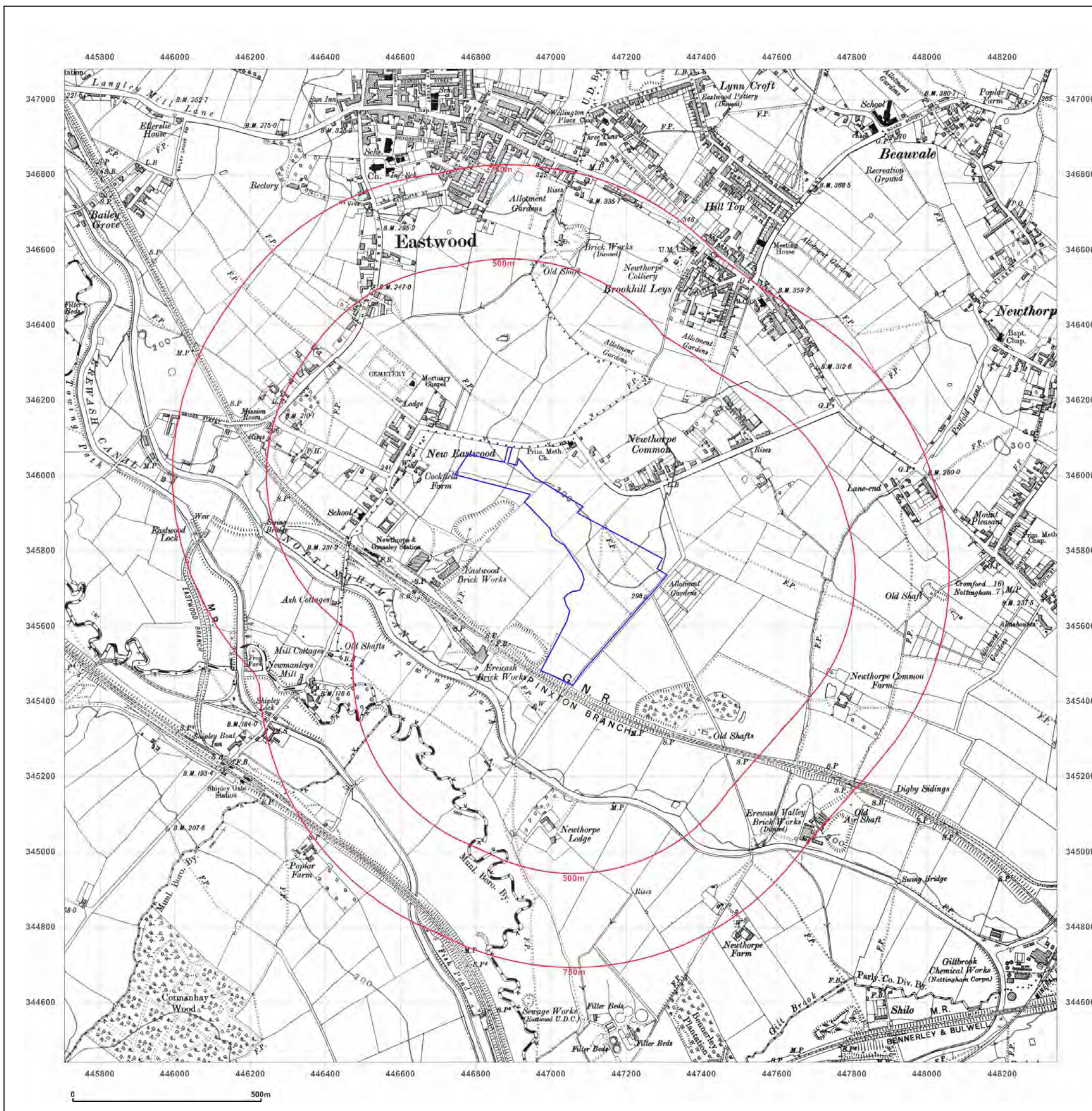


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Site Details:

77, CHEWTON STREET,
EASTWOOD, NG16 3JQ

Client Ref: 57629_Eastwood
Report Ref: GS-4810344
Grid Ref: 447025, 345760

Map Name: County Series

Map date: 1921

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1879
Revised 1921
Edition 1921
Copyright N/A
Levelled 1915

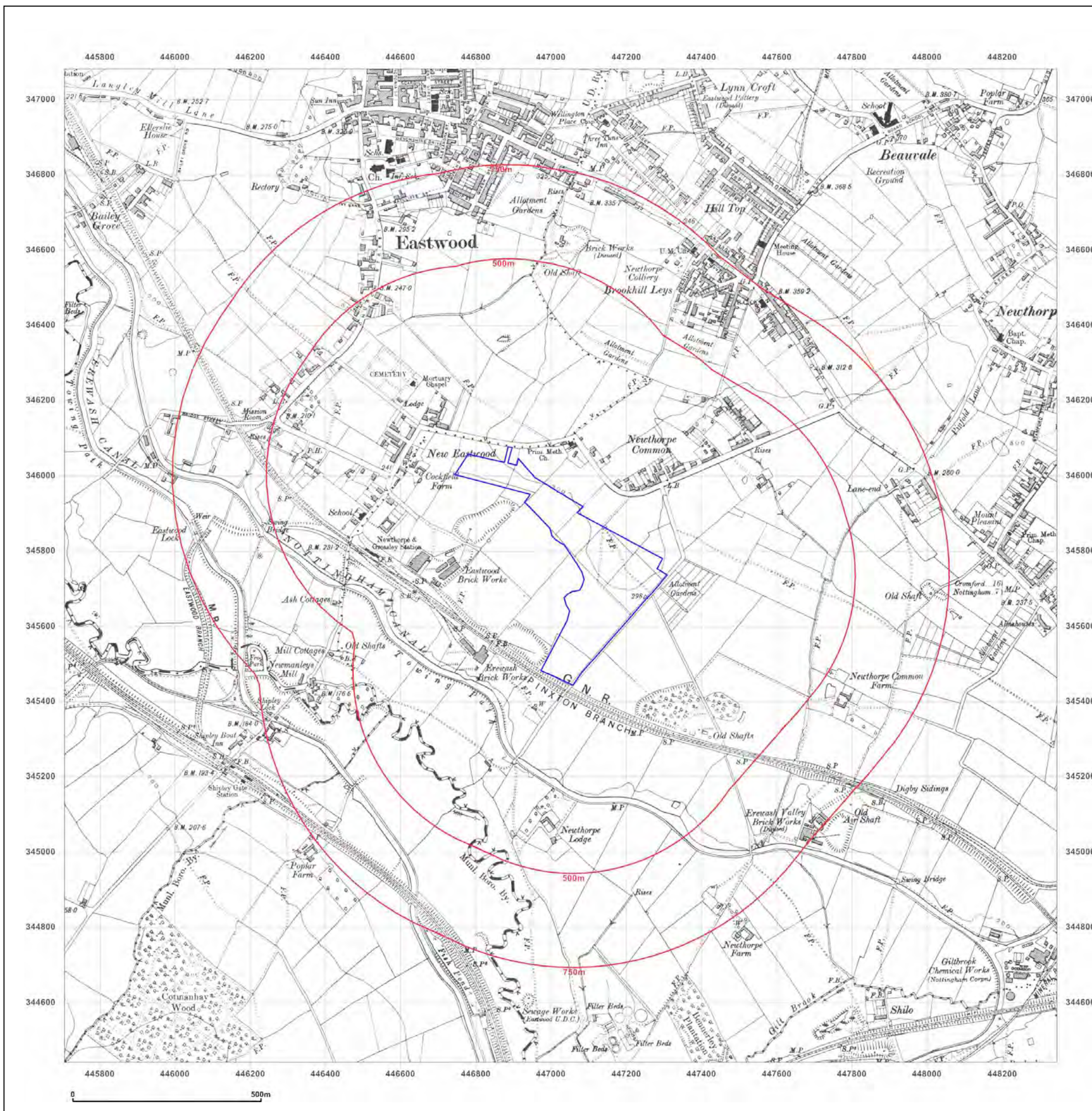


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Site Details:

77, CHEWTON STREET,
EASTWOOD, NG16 3JQ

Client Ref: 57629_Eastwood
Report Ref: GS-4810344
Grid Ref: 447025, 345760

Map Name: County Series

Map date: 1921

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1879
Revised 1921
Edition 1921
Copyright N/A
Levelled N/A

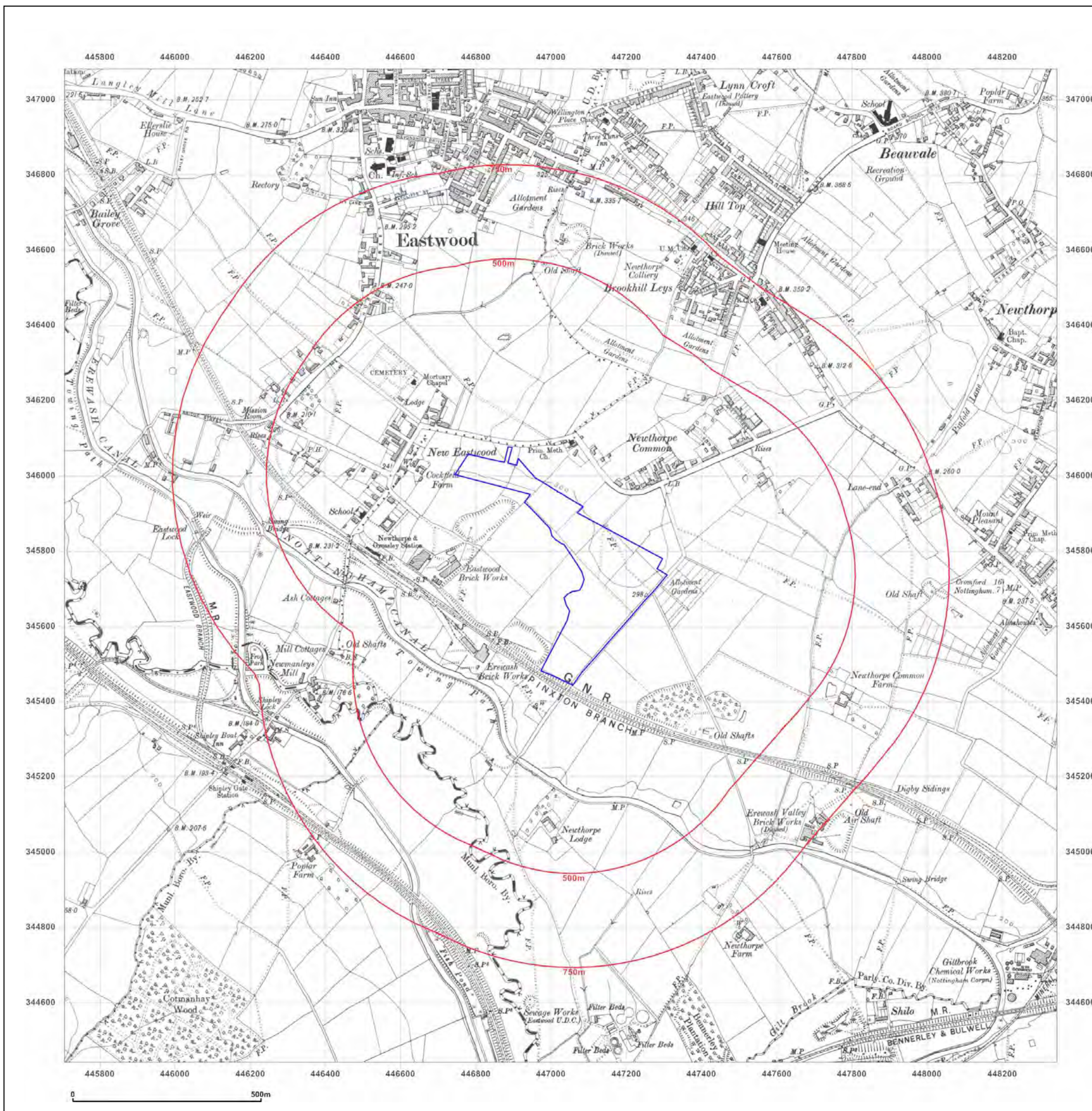


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Site Details:

77, CHEWTON STREET,
EASTWOOD, NG16 3JQ

Client Ref: 57629_Eastwood
Report Ref: GS-4810344
Grid Ref: 447025, 345760

Map Name: County Series

Map date: 1938

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1879
Revised 1938
Edition N/A
Copyright N/A
Levelled N/A

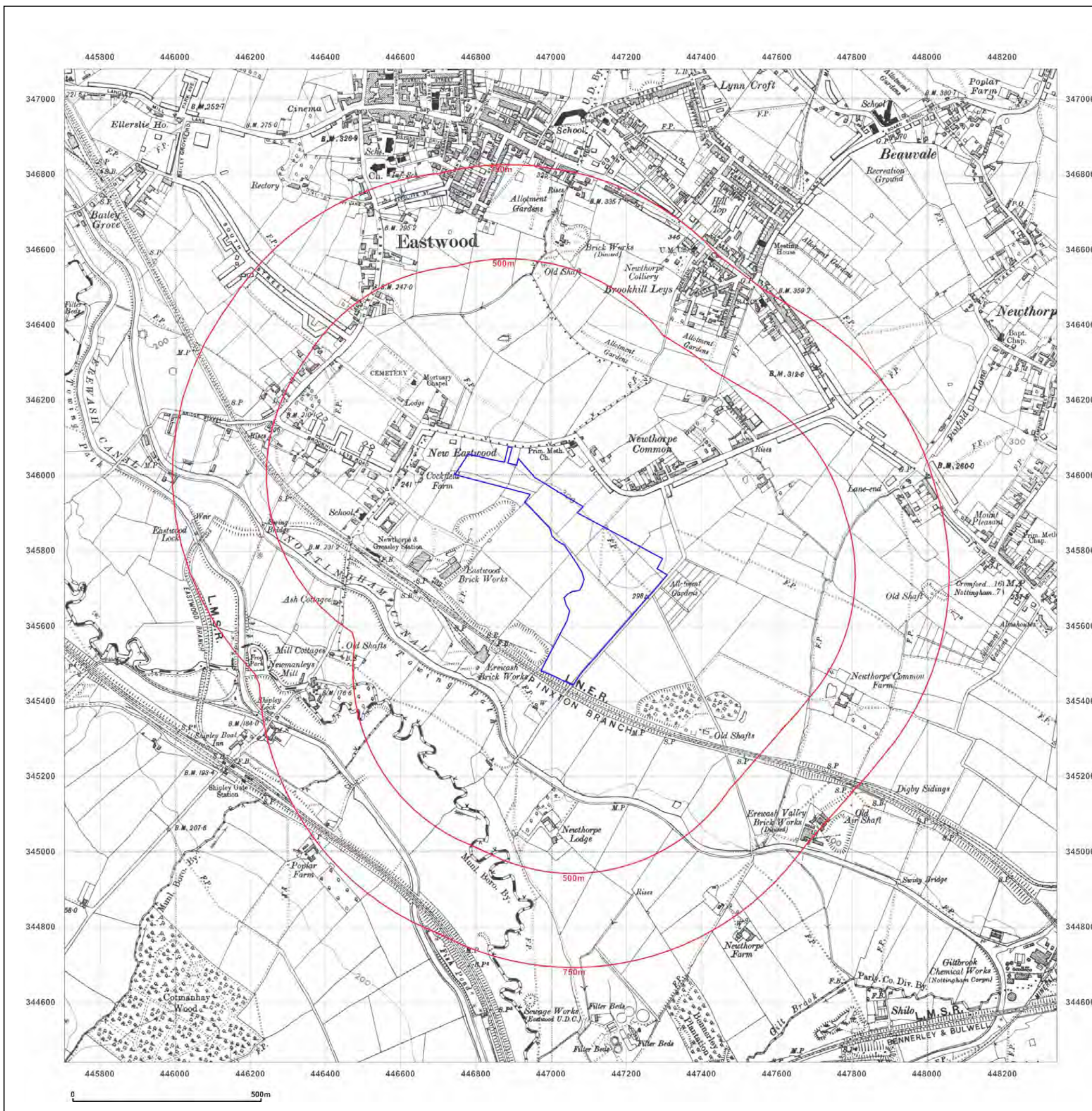


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Site Details:

77, CHEWTON STREET,
EASTWOOD, NG16 3JQ

Client Ref: 57629_Eastwood
Report Ref: GS-4810344
Grid Ref: 447025, 345760

Map Name: Provisional

Map date: 1949-1950

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1949
Revised 1949
Edition N/A
Copyright 1949
Levelled N/A

Surveyed 1950
Revised 1950
Edition N/A
Copyright 1950
Levelled N/A

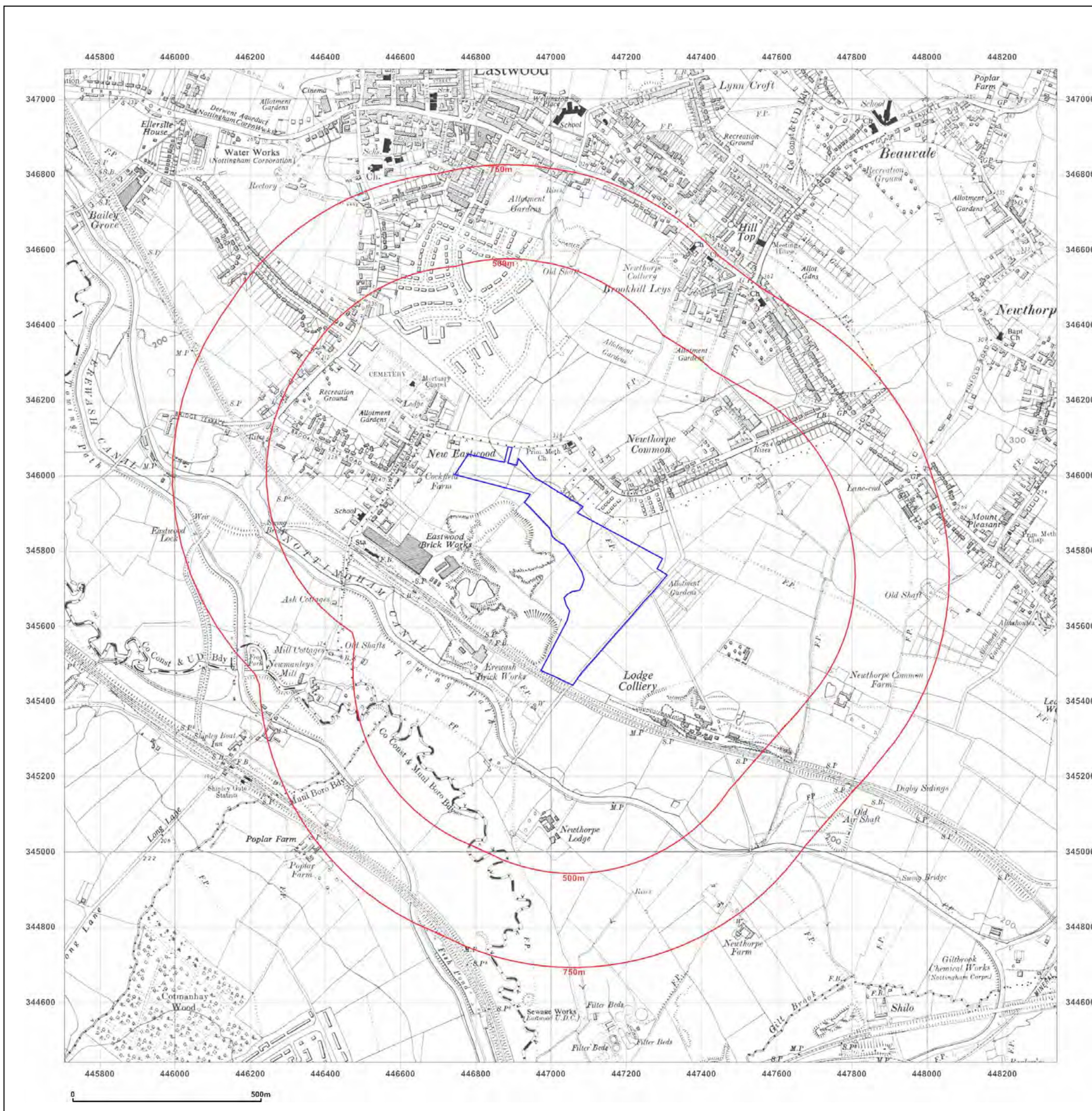


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Site Details:

77, CHEWTON STREET,
EASTWOOD, NG16 3JQ

Client Ref: 57629_Eastwood
Report Ref: GS-4810344
Grid Ref: 447025, 345760

Map Name: National Grid

Map date: 1973-1977

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1974
Revised 1977
Edition N/A
Copyright 1977
Levelled 1964

Surveyed 1971
Revised 1973
Edition N/A
Copyright 1973
Levelled 1964

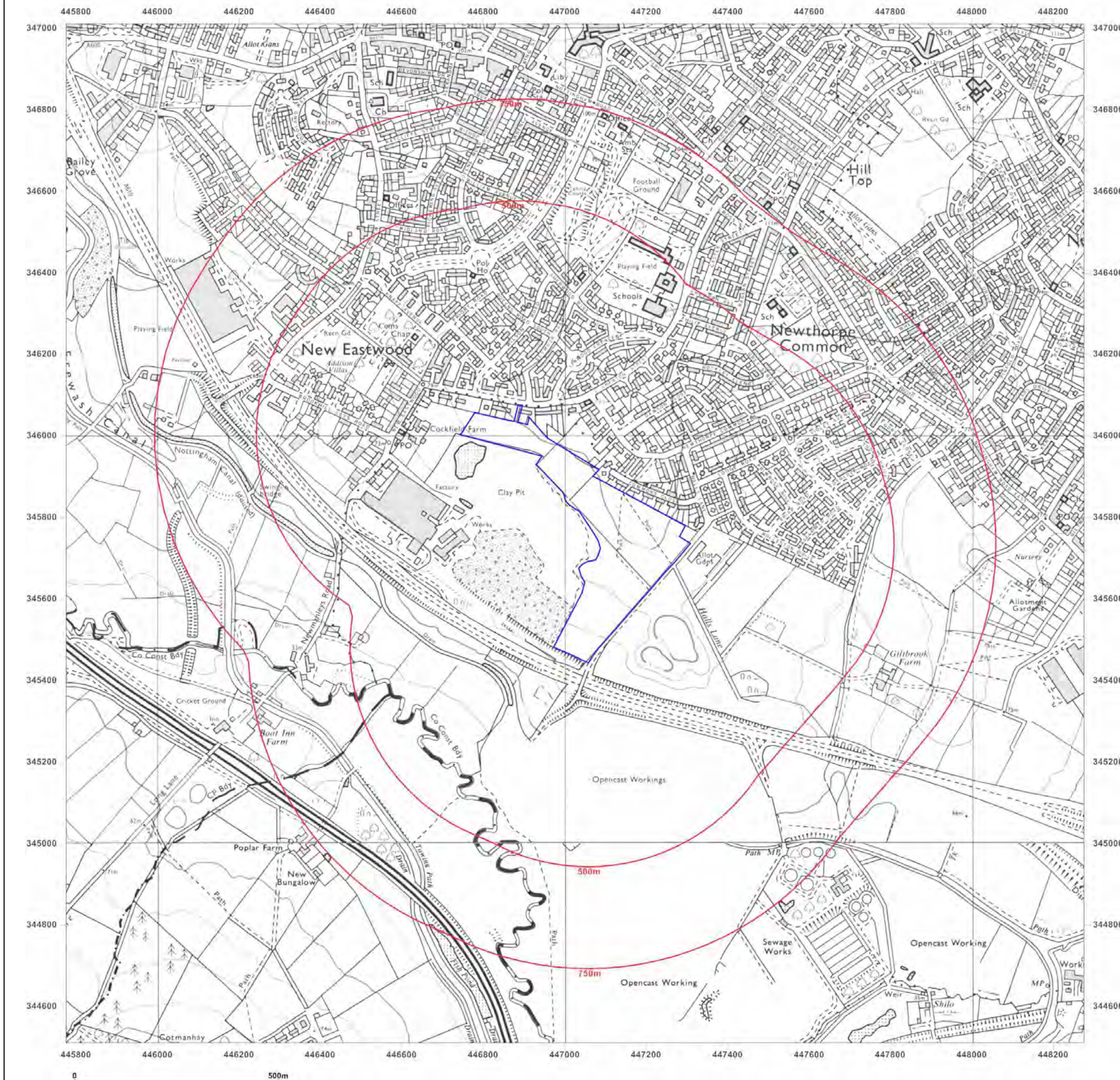


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Site Details:

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EASTWOOD, NG16 3JQ

Client Ref: 57629_Eastwood
Report Ref: GS-4810344
Grid Ref: 447025, 345760

Map Name: 1:10,000 Raster

Map date: 2002

Scale: 1:10,000

Printed at: 1:10,000

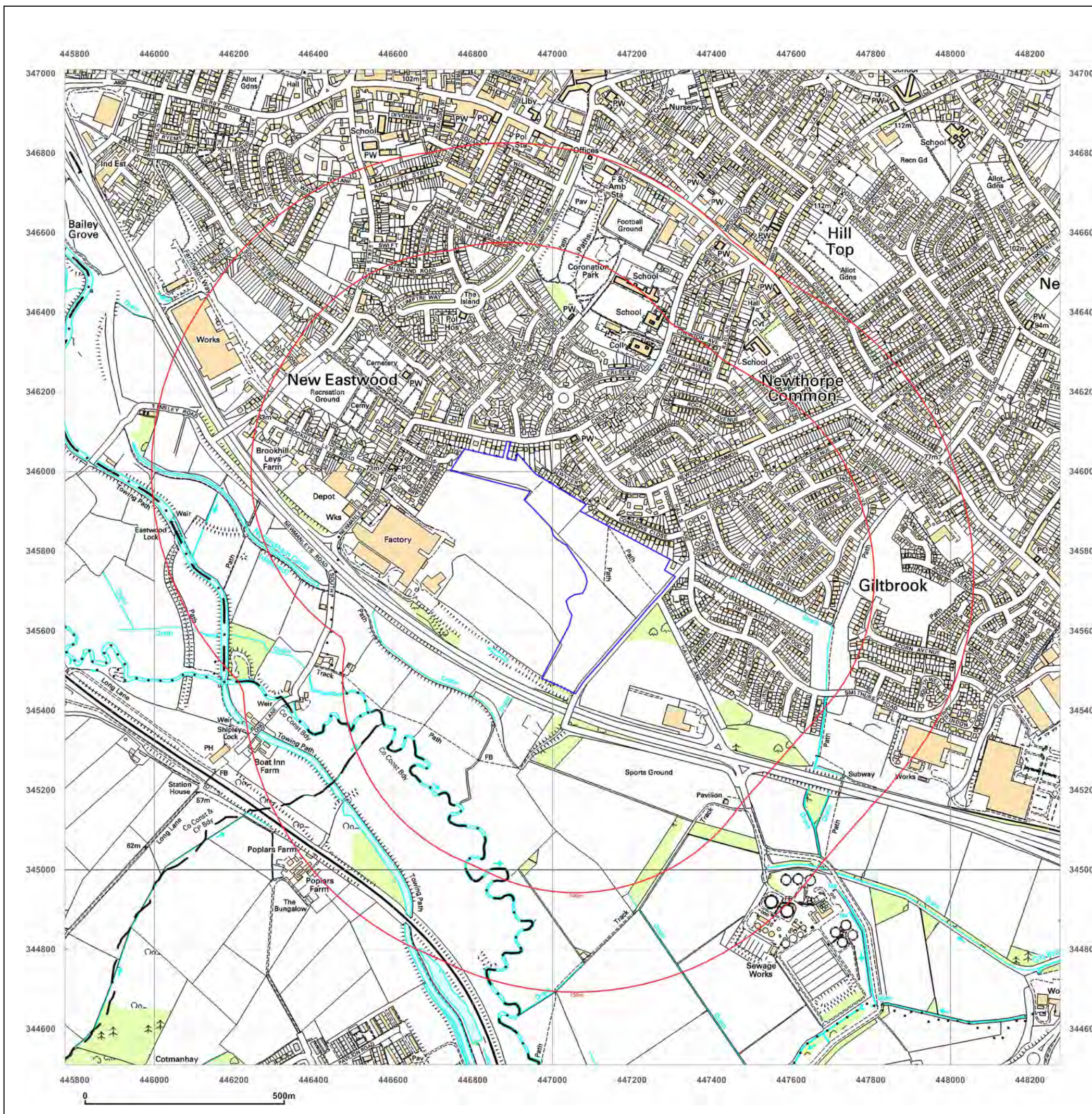


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Site Details:

77, CHEWTON STREET,
EASTWOOD, NG16 3JQ

Client Ref: 57629_Eastwood
Report Ref: GS-4810344
Grid Ref: 447025, 345760

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000

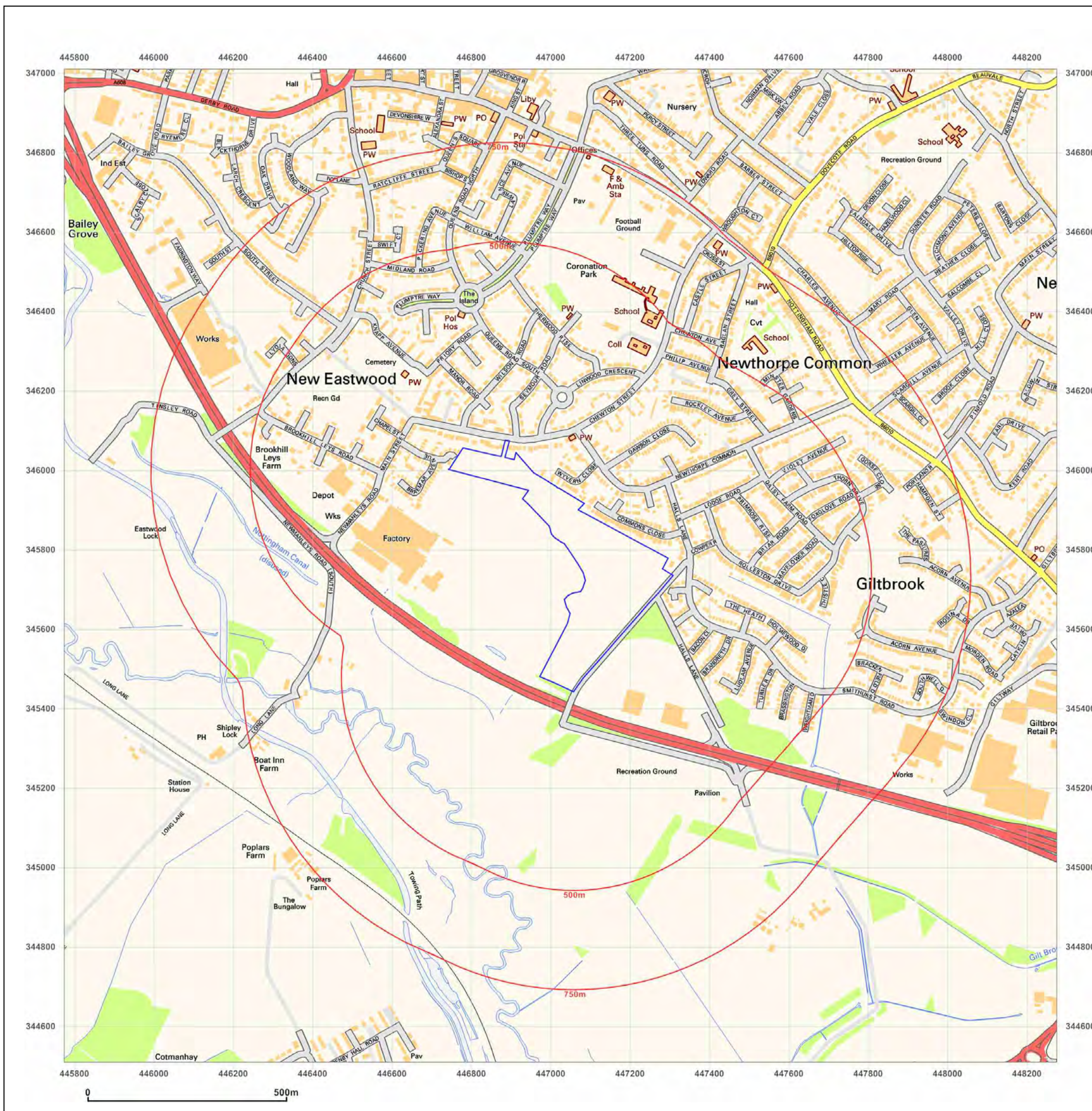


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Production date: 15 March 2018

Map legend available at:
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Site Details:

77, CHEWTON STREET,
EASTWOOD, NG16 3JQ

Client Ref: 57629_Eastwood
Report Ref: GS-4810344
Grid Ref: 447025, 345760

Map Name: National Grid

Map date: 2014

Scale: 1:10,000

Printed at: 1:10,000

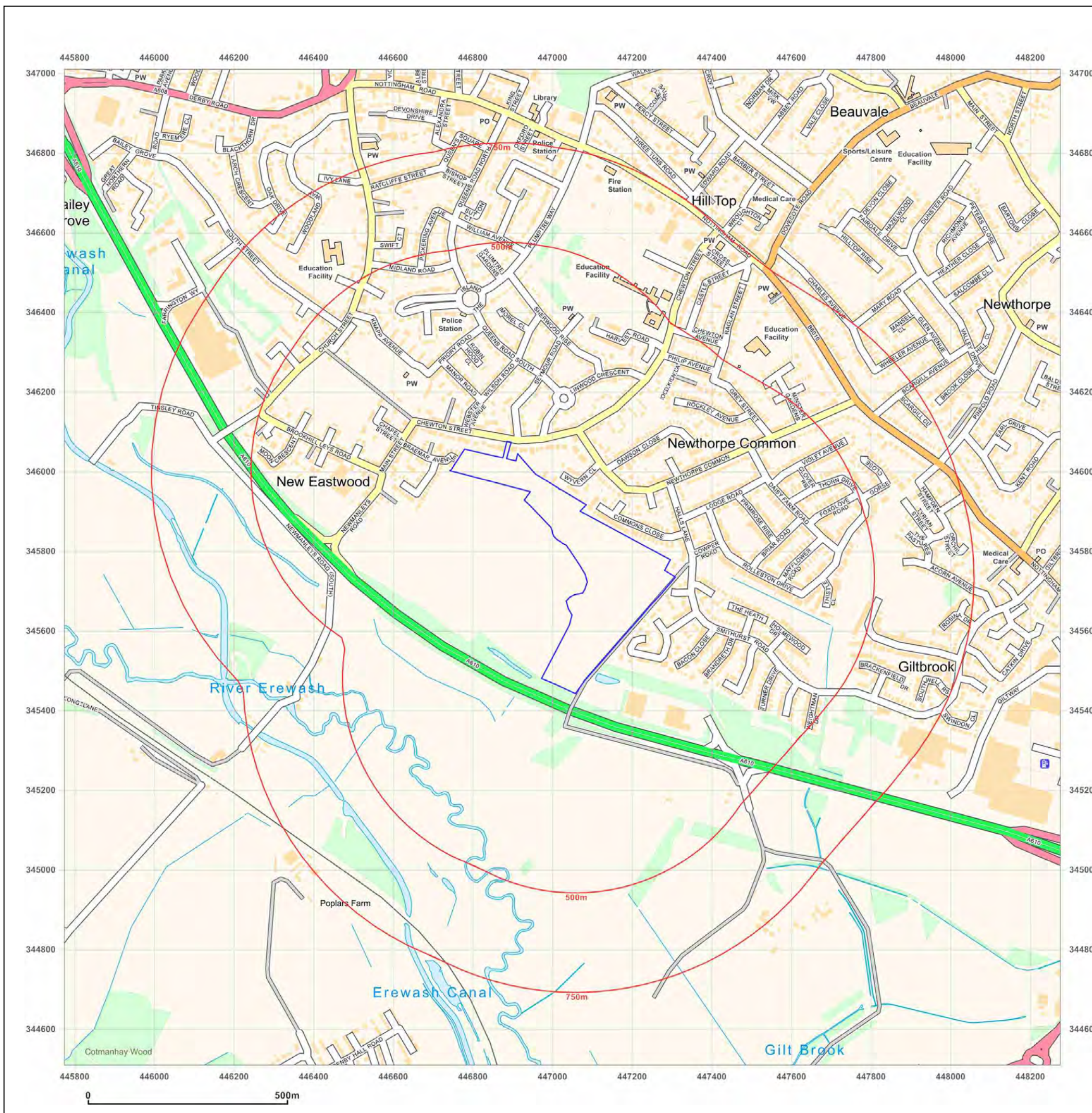


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Appendix C

Search Data



The Coal
Authority

Resolving the **impacts** of mining

CON29M Non-Residential Mining Report

77, CHEWTON STREET, EASTWOOD
NORTHAMPTONSHIRE
NG16 3JQ

Date of enquiry: 15 March 2018
Date enquiry received: 15 March 2018
Issue date: 15 March 2018

Our reference: 51001802447001
Your reference: GS-4810345



CON29M Non-Residential Mining Report

This report is based on, and limited to, the records held by the Coal Authority and the Cheshire Brine Subsidence Compensation Board's records, at the time we answer the search.

Client name

GROUNDSURE LIMITED

Enquiry address




77, CHEWTON STREET, EASTWOOD,
NORTHAMPTONSHIRE, NG16 3JQ

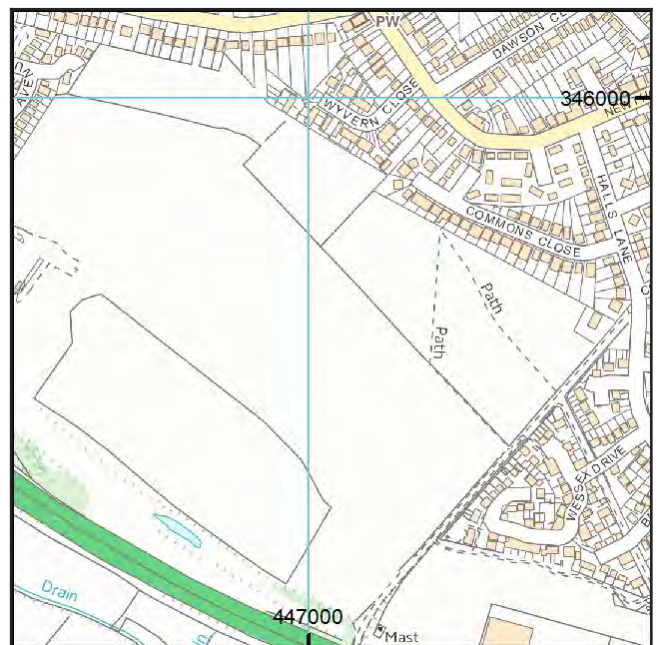
How to contact us

0345 762 6848 (UK)
+44 (0)1623 637 000 (International)

200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

www.groundstability.com

 /company/the-coal-authority
 /thecoalauthority
 /coalauthority



Approximate position of property



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Summary

| Has the search report highlighted evidence or potential of | | |
|--|---|-----|
| 1 | Past underground coal mining | Yes |
| 2 | Present underground coal mining | No |
| 3 | Future underground coal mining | Yes |
| 4 | Mine entries | Yes |
| 5 | Coal mining geology | No |
| 6 | Past opencast coal mining | Yes |
| 7 | Present opencast coal mining | No |
| 8 | Future opencast coal mining | No |
| 9 | Coal mining subsidence | No |
| 10 | Mine gas | No |
| 11 | Hazards related to coal mining | No |
| 12 | Withdrawal of support | No |
| 13 | Working facilities order | No |
| 14 | Payments to owners of former copyhold land | No |
| 15 | Information from the Cheshire Brine Subsidence Compensation Board | No |

| Further recommended reports |
|---------------------------------|
| Mine entry interpretive report |
| Mine entry plan and data sheets |

For detailed findings, please go to page 4.

Detailed findings

1. Past underground coal mining

The property is in a surface area that could be affected by underground mining in 5 seams of coal at 40m to 280m depth, and last worked in 1949.

Any movement in the ground due to coal mining activity should have stopped.

In addition the property is in an area where the Coal Authority believe there is coal at or close to the surface. This coal may have been worked at some time in the past. The potential presence of coal workings at or close to the surface should be considered prior to any site works or future development activity. Your attention is drawn to the Comments on the Coal Authority information section of the report.

2. Present underground coal mining

The property is not within a surface area that could be affected by present underground mining.

3. Future underground coal mining

The property is not in an area where the Coal Authority has plans to grant a licence to remove coal using underground methods.

The property is not in an area where a licence has been granted to remove or otherwise work coal using underground methods.

The property is not in an area likely to be affected from any planned future underground coal mining.

However, reserves of coal exist in the local area which could be worked at some time in the future.

No notices have been given, under section 46 of the Coal Mining Subsidence Act 1991, stating that the land is at risk of subsidence.

4. Mine entries

Within, or within 20 metres of, the boundary of the property there is 1 mine entry, the approximate position of which is shown on the enquiry boundary plot.

There is no record of what steps, if any, have been taken to treat the mine entry.

There may however be mine entries/additional mine entries in the local area which the Coal Authority has no knowledge of.

For an additional fee, the Coal Authority can provide a Mine Entry Interpretive Report. The report will provide a separate assessment for the mine entry/entries referred to in this report. It gives an opinion on the likelihood of mining subsidence damage caused from ground movement as a consequence of the mine entry/entries. It also gives details of the remedies available for subsidence damage where the mine entry was sunk in connection with coal mining.

Please note that it may not be possible to produce a report if the main building to the property cannot be identified from Coal Authority plans (ie for development sites and new build).

For further advice on how to order this additional information please visit www.groundstability.com.

5. Coal mining geology

The Coal Authority is not aware of any damage due to geological faults or other lines of weakness that have been affected by coal mining.

6. Past opencast coal mining

The property is within the boundary of an opencast site from which coal has been removed by opencast methods.

7. Present opencast coal mining

The property does not lie within 200 metres of the boundary of an opencast site from which coal is being removed by opencast methods.

8. Future opencast coal mining

There are no licence requests outstanding to remove coal by opencast methods within 800 metres of the boundary.

The property is not within 800 metres of the boundary of an opencast site for which a licence to remove coal by opencast methods has been granted.

9. Coal mining subsidence

The Coal Authority has not received a damage notice or claim for the subject property, or any property within 50 metres of the enquiry boundary, since 31st October 1994.

There is no current Stop Notice delaying the start of remedial works or repairs to the property.

The Coal Authority is not aware of any request having been made to carry out preventive works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991.

10. Mine gas

The Coal Authority has no record of a mine gas emission requiring action.

11. Hazards related to coal mining

The property has not been subject to remedial works, by or on behalf of the Authority, under its Emergency Surface Hazard Call Out procedures.

12. Withdrawal of support

The property is not in an area where a notice to withdraw support has been given.

The property is not in an area where a notice has been given under section 41 of the Coal Industry Act 1994, cancelling the entitlement to withdraw support.

13. Working facilities order

The property is not in an area where an order has been made, under the provisions of the Mines (Working Facilities and Support) Acts 1923 and 1966 or any statutory modification or amendment thereof.

14. Payments to owners of former copyhold land

The property is not in an area where a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.

15. Information from the Cheshire Brine Subsidence Compensation Board

The property lies outside the Cheshire Brine Compensation District.

Comments on the Coal Authority information

The Coal Authority own the copyright in this report and the information used is protected by our database right.

The boundary plot shows the approximate location of the disused mine entry/entries referred to in this report. For reasons of clarity, mine entry symbols may not be drawn to the same scale as the plan.

Property owners have the benefit of statutory protection (under the Coal Mining Subsidence Act 1991*). This contains provision for the making good, to the reasonable satisfaction of the owner, of physical damage from disused coal mine workings including disused coal mine entries. A leaflet setting out the rights and obligations of either the Coal Authority or other responsible persons under the 1991 Act can be obtained by visiting www.groundstability.com.

If you wish to discuss the relevance of any of the information contained in this report, you should seek the advice of a qualified mining engineer or surveyor. If you or your advisor wish to examine the source plans from which the information has been taken, these are available to view, free of charge, at our Head Office in Mansfield. To book an appointment please ring 01623 637225. Should you or your advisor wish to carry out a physical investigation that may enter, disturb or interfere with any disused mine entry, prior permission of the owner must be sought. For coal mine entries, the owner will normally be the Coal Authority.

The Coal Authority, regardless of responsibility and in conjunction with other public bodies, provide an emergency call out facility in coalfield areas to assess the public safety implications of mining features (including disused mine entries). Our emergency telephone number is 01623 646333.

*Note, this Act does not apply where coal was worked or gotten by virtue of the grant of a gale in the Forest of Dean, or any other part of the Hundred of St. Briavels in the county of Gloucester.

In view of the mining circumstances a prudent developer would seek appropriate technical advice before any works are undertaken.

Therefore if development proposals are being considered, technical advice relating to both the investigation of coal and former coal mines and their treatment should be obtained before

beginning work on site. All proposals should apply good engineering practice developed for mining areas. No development should be undertaken that intersects, disturbs or interferes with any coal or mines of coal without the permission of the Coal Authority. Developers should be aware that the investigation of coal seams/former mines of coal may have the potential to generate and/or displace underground gases and these risks both under and adjacent to the development should be fully considered in developing any proposals. The need for effective measures to prevent gases entering into public properties either during investigation or after development also needs to be assessed and properly addressed. This is necessary due to the public safety implications of any development in these circumstances.

Additional remarks

Information provided by the Coal Authority in this report is compiled in response to the Law Society's Con29M Coal Mining and Brine Subsidence Claim enquiries. The said enquiries are protected by copyright owned by the Law Society of 113 Chancery Lane, London WC2A 1PL. Please note that Brine Subsidence Claim enquiries are only relevant for England and Wales. This report is prepared in accordance with the Law Society's Guidance Notes 2006, the User Guide 2006 and the Coal Authority and Cheshire Brine Board's Terms and Conditions applicable at the time the report was produced.

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Alternative formats

If you would like this report in an alternative format, please contact our communications team.

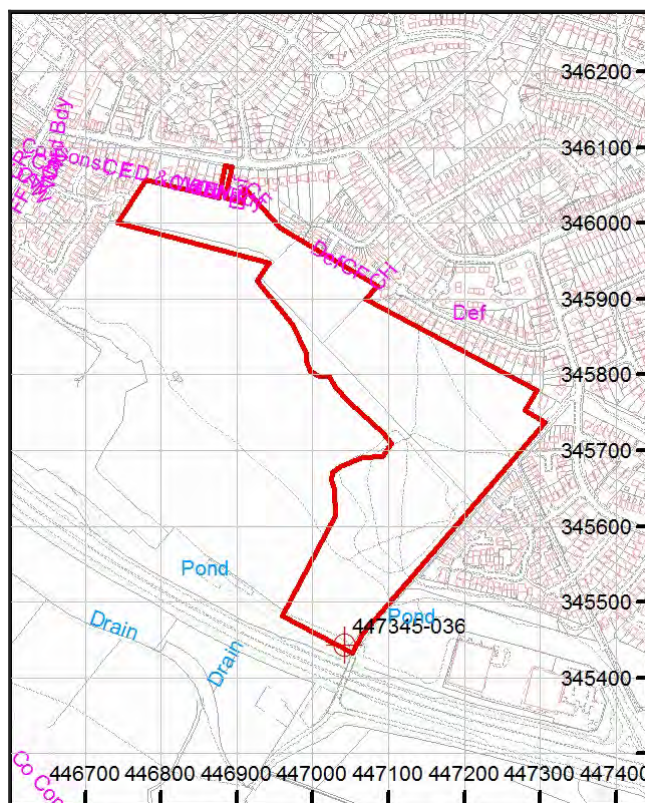
Enquiry boundary

Key

Approximate position of enquiry boundary shown



Disused mineshaft




How to contact us


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Kiwa CMT Testing

UNIT 5 C M T TESTING LTD, PRIME PARK WAY,
DERBY, DE1 3QB

Groundsure
Reference:

GS-4810342

Your Reference: 57629_Eastwood

Report Date 15 Mar 2018

Report Delivery Method: Email - pdf

Enviro Insight

Address: 77, CHEWTON STREET, EASTWOOD, NG16 3JQ

Dear Sir/ Madam,

Thank you for placing your order with Groundsure. Please find enclosed the **Groundsure Enviro Insight** as requested.

If you need any further assistance, please do not hesitate to contact our helpline on 08444 159000 quoting the above Groundsure reference number.

Yours faithfully,

Managing Director
Groundsure Limited

Enc.
Groundsure Enviroinsight

Address: 77, CHEWTON STREET, EASTWOOD, NG16 3JQ

Date: 15 Mar 2018

Reference: GS-4810342

Client: Kiwa CMT Testing

NW

N

NE

W

E



SW

S

SE

Aerial Photograph Capture date: 13-Apr-2016

Grid Reference: 447058,345782

Site Size: 9.61ha

Report Reference: GS-4810342

Client Reference: 57629_Eastwood

Contents Page

| | |
|--|----|
| Contents Page | 3 |
| Overview of Findings | 6 |
| Using this report | 10 |
| 1. Historical Land Use | 11 |
| 1. Historical Industrial Sites | 12 |
| 1.1 Potentially Contaminative Uses identified from 1:10,000 scale Mapping | 12 |
| 1.2 Additional Information – Historical Tank Database | 16 |
| 1.3 Additional Information – Historical Energy Features Database | 17 |
| 1.4 Additional Information – Historical Petrol and Fuel Site Database | 18 |
| 1.5 Additional Information – Historical Garage and Motor Vehicle Repair Database | 18 |
| 1.6 Potentially Infilled Land | 18 |
| 2. Environmental Permits, Incidents and Registers Map | 23 |
| 2. Environmental Permits, Incidents and Registers | 24 |
| 2.1 Industrial Sites Holding Licences and/or Authorisations | 24 |
| 2.1.1 Records of historic IPC Authorisations within 500m of the study site | 24 |
| 2.1.2 Records of Part A(1) and IPPC Authorised Activities within 500m of the study site | 24 |
| 2.1.3 Records of Red List Discharge Consents (potentially harmful discharges to controlled waters) within 500m of the study site | 24 |
| 2.1.4 Records of List 1 Dangerous Substances Inventory Sites within 500m of the study site | 24 |
| 2.1.5 Records of List 2 Dangerous Substance Inventory Sites within 500m of the study site | 24 |
| 2.1.6 Records of Part A(2) and Part B Activities and Enforcements within 500m of the study site | 25 |
| 2.1.7 Records of Category 3 or 4 Radioactive Substances Authorisations | 25 |
| 2.1.8 Records of Licensed Discharge Consents within 500m of the study site | 26 |
| 2.1.9 Records of Water Industry Referrals (potentially harmful discharges to the public sewer) within 500m of the study site | 26 |
| 2.1.10 Records of Planning Hazardous Substance Consents and Enforcements within 500m of the study site | 26 |
| 2.2 Dangerous or Hazardous Sites | 26 |
| 2.3 Environment Agency/Natural Resources Wales Recorded Pollution Incidents | 26 |
| 2.3.1 Records of National Incidents Recording System, List 2 within 500m of the study site | 26 |
| 2.3.2 Records of National Incidents Recording System, List 1 within 500m of the study site | 27 |
| 2.4 Sites Determined as Contaminated Land under Part 2A EPA 1990 | 27 |
| 3. Landfill and Other Waste Sites Map | 28 |
| 3. Landfill and Other Waste Sites | 29 |
| 3.1 Landfill Sites | 29 |
| 3.1.1 Records from Environment Agency/Natural Resources Wales landfill data within 1000m of the study site | 29 |
| 3.1.2 Records of Environment Agency/Natural Resources Wales historic landfill sites within 1500m of the study site | 29 |
| 3.1.3 Records of BGS/DoE non-operational landfill sites within 1500m of the study site | 30 |
| 3.1.4 Records of Landfills from Local Authority and Historical Mapping Records within 1500m of the study site | 30 |
| 3.2 Other Waste Sites | 31 |
| 3.2.1 Records of waste treatment, transfer or disposal sites within 500m of the study site | 31 |
| 3.2.2 Records of Environment Agency/Natural Resources Wales licensed waste sites within 1500m of the study site | 31 |
| 4. Current Land Use Map | 35 |
| 4. Current Land Uses | 36 |
| 4.1 Current Industrial Data | 36 |
| 4.2 Petrol and Fuel Sites | 37 |
| 4.3 National Grid High Voltage Underground Electricity Transmission Cables | 37 |
| 4.4 National Grid High Pressure Gas Transmission Pipelines | 37 |

| | |
|--|----|
| 5. Geology | 38 |
| 5.1 Artificial Ground and Made Ground..... | 38 |
| 5.2 Superficial Ground and Drift Geology | 38 |
| 5.3 Bedrock and Solid Geology | 38 |
| 6 Hydrogeology and Hydrology | 39 |
| 6a. Aquifer Within Superficial Geology | 39 |
| 6b. Aquifer Within Bedrock Geology and Abstraction Licenses | 40 |
| 6c. Hydrogeology – Source Protection Zones and Potable Water Abstraction Licenses | 41 |
| 6d. Hydrogeology – Source Protection Zones within confined aquifer | 42 |
| 6e. Hydrology – Detailed River Network and River Quality | 43 |
| 6.Hydrogeology and Hydrology | 44 |
| 6.1 Aquifer within Superficial Deposits..... | 44 |
| 6.2 Aquifer within Bedrock Deposits..... | 44 |
| 6.3 Groundwater Abstraction Licences..... | 45 |
| 6.4 Surface Water Abstraction Licences..... | 45 |
| 6.5 Potable Water Abstraction Licences..... | 45 |
| 6.6 Source Protection Zones..... | 45 |
| 6.7 Source Protection Zones within Confined Aquifer..... | 46 |
| 6.8 Groundwater Vulnerability and Soil Leaching Potential..... | 46 |
| 6.9 River Quality..... | 46 |
| 6.9.1 Biological Quality:..... | 47 |
| 6.9.2 Chemical Quality:..... | 48 |
| 6.10 Detailed River Network..... | 50 |
| 6.11 Surface Water Features..... | 51 |
| 7a. Environment Agency/Natural Resources Wales Flood Map for Planning (from rivers and the sea) | 52 |
| 7b. Environment Agency/Natural Resources Wales Risk of Flooding from Rivers and the Sea (RoFRaS) | 53 |
| Map | 53 |
| 7 Flooding | 54 |
| 7.1 River and Coastal Zone 2 Flooding..... | 54 |
| 7.2 River and Coastal Zone 3 Flooding..... | 54 |
| 7.3 Risk of Flooding from Rivers and the Sea (RoFRaS) Flood Rating..... | 54 |
| 7.4 Flood Defences..... | 54 |
| 7.5 Areas benefiting from Flood Defences..... | 54 |
| 7.6 Areas benefiting from Flood Storage..... | 55 |
| 7.7 Groundwater Flooding Susceptibility Areas..... | 55 |
| 7.7.1 British Geological Survey groundwater flooding susceptibility areas within 50m of the boundary of the study site | 55 |
| 7.7.2 Highest susceptibility to groundwater flooding in the search area based on the underlying geological conditions | 55 |
| 7.8 Groundwater Flooding Confidence Areas..... | 55 |
| 8. Designated Environmentally Sensitive Sites Map | 56 |
| 8. Designated Environmentally Sensitive Sites | 57 |
| 8.1 Records of Sites of Special Scientific Interest (SSSI) within 2000m of the study site:..... | 57 |
| 8.2 Records of National Nature Reserves (NNR) within 2000m of the study site:..... | 57 |
| 8.3 Records of Special Areas of Conservation (SAC) within 2000m of the study site:..... | 57 |
| 8.4 Records of Special Protection Areas (SPA) within 2000m of the study site:..... | 57 |
| 8.5 Records of Ramsar sites within 2000m of the study site:..... | 57 |
| 8.6 Records of Ancient Woodland within 2000m of the study site: | 58 |
| 8.7 Records of Local Nature Reserves (LNR) within 2000m of the study site:..... | 58 |
| 8.8 Records of World Heritage Sites within 2000m of the study site:..... | 58 |
| 8.9 Records of Environmentally Sensitive Areas within 2000m of the study site: | 58 |

| | |
|--|-----------|
| 8.10 Records of Areas of Outstanding Natural Beauty (AONB) within 2000m of the study site: | 59 |
| 8.11 Records of National Parks (NP) within 2000m of the study site: | 59 |
| 8.12 Records of Nitrate Sensitive Areas within 2000m of the study site:..... | 59 |
| 8.13 Records of Nitrate Vulnerable Zones within 2000m of the study site:..... | 59 |
| 8.14 Records of Green Belt land within 2000m of the study site:..... | 59 |
| 9. Natural Hazards Findings | 61 |
| 9.1 Detailed BGS GeoSure Data..... | 61 |
| 9.1.1 Shrink Swell..... | 61 |
| 9.1.2 Landslides..... | 61 |
| 9.1.3 Soluble Rocks..... | 61 |
| 9.1.4 Compressible Ground..... | 62 |
| 9.1.5 Collapsible Rocks..... | 62 |
| 9.1.6 Running Sand..... | 62 |
| 9.2 Radon..... | 63 |
| 9.2.1 Radon Affected Areas..... | 63 |
| 9.2.2 Radon Protection..... | 63 |
| 10. Mining | 64 |
| 10.1 Coal Mining..... | 64 |
| 10.2 Non-Coal Mining..... | 64 |
| 10.3 Brine Affected Areas | 64 |
| Contact Details | 65 |
| Standard Terms and Conditions | 67 |

Overview of Findings

For further details on each dataset, please refer to each individual section in the main report as listed. Where the database has been searched a numerical result will be recorded. Where the database has not been searched '-' will be recorded.

| Section 1: Historical Industrial Sites | On-site | 0-50 | 51-250 | 251-500 |
|--|---------|------|--------|---------|
| 1.1 Potentially Contaminative Uses identified from 1:10,000 scale mapping | 9 | 24 | 70 | 66 |
| 1.2 Additional Information – Historical Tank Database | 0 | 0 | 9 | 15 |
| 1.3 Additional Information – Historical Energy Features Database | 0 | 5 | 27 | 15 |
| 1.4 Additional Information – Historical Petrol and Fuel Site Database | 0 | 0 | 0 | 0 |
| 1.5 Additional Information – Historical Garage and Motor Vehicle Repair Database | 0 | 0 | 0 | 6 |
| 1.6 Potentially Infilled Land | 9 | 23 | 58 | 48 |

| Section 2: Environmental Permits, Incidents and Registers | On-site | 0-50m | 51-250 | 251-500 |
|--|---------|-------|--------|---------|
| 2.1 Industrial Sites Holding Environmental Permits and/or Authorisations | | | | |
| 2.1.1 Records of historic IPC Authorisations | 0 | 0 | 0 | 0 |
| 2.1.2 Records of Part A(1) and IPPC Authorised Activities | 0 | 0 | 0 | 0 |
| 2.1.3 Records of Red List Discharge Consents | 0 | 0 | 0 | 0 |
| 2.1.4 Records of List 1 Dangerous Substances Inventory sites | 0 | 0 | 0 | 0 |
| 2.1.5 Records of List 2 Dangerous Substances Inventory sites | 0 | 0 | 0 | 0 |
| 2.1.6 Records of Part A(2) and Part B Activities and Enforcements | 0 | 0 | 3 | 1 |
| 2.1.7 Records of Category 3 or 4 Radioactive Substances Authorisations | 0 | 0 | 0 | 0 |
| 2.1.8 Records of Licensed Discharge Consents | 0 | 0 | 0 | 0 |
| 2.1.9 Records of Water Industry Referrals | 0 | 0 | 0 | 0 |
| 2.1.10 Records of Planning Hazardous Substance Consents and Enforcements within 500m of the study site | 0 | 0 | 0 | 0 |
| 2.2 Records of COMAH and NIHHS sites | 0 | 0 | 0 | 0 |
| 2.3 Environment Agency/Natural Resources Wales Recorded Pollution Incidents | | | | |
| 2.3.1 National Incidents Recording System, List 2 | 0 | 0 | 1 | 1 |
| 2.3.2 National Incidents Recording System, List 1 | 0 | 0 | 0 | 0 |
| 2.4 Sites Determined as Contaminated Land under Part 2A EPA 1990 | 0 | 0 | 0 | 0 |

| Section 3: Landfill and Other Waste Sites | On-site | 0-50m | 51-250 | 251-500 | 501-1000 | 1000-1500 |
|--|---------|-------|--------|---------|--------------|--------------|
| 3.1 Landfill Sites | | | | | | |
| 3.1.1 Environment Agency/Natural Resources Wales Registered Landfill Sites | 0 | 0 | 0 | 0 | 0 | Not searched |
| 3.1.2 Environment Agency/Natural Resources Wales Historic Landfill Sites | 4 | 0 | 0 | 1 | 0 | 1 |
| 3.1.3 BGS/DoE Landfill Site Survey | 0 | 1 | 0 | 0 | 2 | 0 |
| 3.1.4 Records of Landfills in Local Authority and Historical Mapping Records | 0 | 1 | 0 | 0 | 1 | 0 |
| 3.2 Landfill and Other Waste Sites Findings | | | | | | |
| 3.2.1 Operational and Non-Operational Waste Treatment, Transfer and Disposal Sites | 0 | 0 | 0 | 0 | Not searched | Not searched |
| 3.2.2 Environment Agency/Natural Resources Wales Licensed Waste Sites | 0 | 0 | 0 | 0 | 0 | 14 |

| Section 4: Current Land Use | On-site | 0-50m | 51-250 | 251-500 |
|--|---------|-------|--------|--------------|
| 4.1 Current Industrial Sites Data | 0 | 1 | 13 | Not searched |
| 4.2 Records of Petrol and Fuel Sites | 0 | 0 | 0 | 0 |
| 4.3 National Grid Underground Electricity Cables | 0 | 0 | 0 | 0 |
| 4.4 National Grid Gas Transmission Pipelines | 0 | 0 | 0 | 0 |

| Section 5: Geology | |
|---|-----------------|
| 5.1 Records of Artificial Ground and Made Ground present beneath the study site | Identified |
| 5.2 Records of Superficial Ground and Drift Geology present beneath the study site | None identified |
| 5.3 For records of Bedrock and Solid Geology beneath the study site see the detailed findings section | |

| Section 6: Hydrogeology and Hydrology | | | | 0-500m | | |
|---|---------|-------|--------|------------|--------------|--------------|
| 6.1 Records of Strata Classification in the Superficial Geology within 500m of the study site | | | | Identified | | |
| 6.2 Records of Strata Classification in the Bedrock Geology within 500m of the study site | | | | Identified | | |
| | On-site | 0-50m | 51-250 | 251-500 | 501-1000 | 1000-2000 |
| 6.3 Groundwater Abstraction Licences (within 2000m of the study site) | 0 | 0 | 0 | 0 | 0 | 0 |
| 6.4 Surface Water Abstraction Licences (within 2000m of the study site) | 0 | 0 | 0 | 0 | 0 | 2 |
| 6.5 Potable Water Abstraction Licences (within 2000m of the study site) | 0 | 0 | 0 | 0 | 0 | 0 |
| 6.6 Source Protection Zones (within 500m of the study site) | 0 | 0 | 0 | 0 | Not searched | Not searched |
| 6.7 Source Protection Zones within Confined Aquifer | 0 | 0 | 0 | 0 | Not searched | Not searched |
| 6.8 Groundwater Vulnerability and Soil Leaching Potential (within 500m of the study site) | 1 | 0 | 0 | 1 | Not searched | Not searched |

| Section 6: Hydrogeology and Hydrology | 0-500m | | | | | |
|--|---------|-------|--------|--------------|--------------|--------------|
| | On-site | 0-50m | 51-250 | 251-500 | 501-1000 | 1000-1500 |
| 6.9 Environment Agency/Natural Resources Wales information on river quality within 1500m of the study site | No | No | No | No | Yes | Yes |
| 6.10 Detailed River Network entries within 500m of the site | 0 | 0 | 1 | 8 | Not searched | Not searched |
| 6.11 Surface water features within 250m of the study site | No | No | Yes | Not searched | Not searched | Not searched |

| Section 7: Flooding | | | | | | |
|---|-------------------|--|--|--|--|--|
| 7.1 Environment Agency Zone 2 floodplains within 250m of the study site | None identified | | | | | |
| 7.2 Environment Agency/Natural Resources Wales Zone 3 floodplains within 250m of the study site | None identified | | | | | |
| 7.3 Risk of flooding from Rivers and the Sea (RoFRaS) rating for the study site | Very Low | | | | | |
| 7.4 Flood Defences within 250m of the study site | None identified | | | | | |
| 7.5 Areas benefiting from Flood Defences within 250m of the study site | None identified | | | | | |
| 7.6 Areas used for Flood Storage within 250m of the study site | None identified | | | | | |
| 7.7 Maximum BGS Groundwater Flooding susceptibility within 50m of the study site | Limited potential | | | | | |
| 7.8 BGS confidence rating for the Groundwater Flooding susceptibility areas | Low | | | | | |

| Section 8: Designated Environmentally Sensitive Sites | | | | | | |
|--|---------|-------|--------|---------|----------|-----------|
| | On-site | 0-50m | 51-250 | 251-500 | 501-1000 | 1000-2000 |
| 8.1 Records of Sites of Special Scientific Interest (SSSI) | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.2 Records of National Nature Reserves (NNR) | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.3 Records of Special Areas of Conservation (SAC) | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.4 Records of Special Protection Areas (SPA) | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.5 Records of Ramsar sites | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.6 Records of Ancient Woodlands | 0 | 0 | 0 | 0 | 0 | 3 |
| 8.7 Records of Local Nature Reserves (LNR) | 0 | 0 | 0 | 5 | 0 | 3 |
| 8.8 Records of World Heritage Sites | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.9 Records of Environmentally Sensitive Areas | 0 | 0 | 0 | 0 | 0 | 0 |

| Section 8: Designated Environmentally Sensitive Sites | On-site | 0-50m | 51-250 | 251-500 | 501-1000 | 1000-2000 |
|--|---------|-------|--------|---------|----------|-----------|
| 8.10 Records of Areas of Outstanding Natural Beauty (AONB) | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.11 Records of National Parks | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.12 Records of Nitrate Sensitive Areas | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.13 Records of Nitrate Vulnerable Zones | 2 | 0 | 0 | 0 | 0 | 1 |
| 8.14 Records of Green Belt land | 0 | 1 | 0 | 2 | 1 | 2 |

| Section 9: Natural Hazards | |
|--|---|
| 9.1 Maximum risk of natural ground subsidence | Very Low |
| 9.1.1 Maximum Shrink-Swell hazard rating identified on the study site | Very Low |
| 9.1.2 Maximum Landslides hazard rating identified on the study site | Low |
| 9.1.3 Maximum Soluble Rocks hazard rating identified on the study site | Negligible |
| 9.1.4 Maximum Compressible Ground hazard rating identified on the study site | Negligible |
| 9.1.5 Maximum Collapsible Rocks hazard rating identified on the study site | Very Low |
| 9.1.6 Maximum Running Sand hazard rating identified on the study site | Negligible |
| 9.2 Radon | |
| 9.2.1 Radon Affected Area rating | The site is in a Radon Affected Area, as between 1 and 3% of properties are above the Action Level. |
| 9.2.2 Radon protection measures requirements | No radon protective measures are necessary. |

| Section 10: Mining | |
|--|-----------------|
| 10.1 Coal mining areas within 75m of the study site | Identified |
| 10.2 Non-Coal Mining areas within 50m of the study site boundary | Identified |
| 10.3 Brine affected areas within 75m of the study site | None identified |

Using this report

The following report is designed by Environmental Consultants for Environmental Professionals bringing together the most up-to-date market leading environmental data. This report is provided under and subject to the Terms & Conditions agreed between Groundsure and the Client. The document contains the following sections:

1. Historical Industrial Sites

Provides information on past land uses that may pose a risk to the study site in terms of potential contamination from activities or processes. Potentially Infilled Land features are also included. This search is conducted using radii of up to 500m.

2. Environmental Permits, Incidents and Registers

Provides information on Regulated Industrial Activities and Pollution Incidents as recorded by Regulatory Authorities, and sites determined as Contaminated Land. This search is conducted using radii up to 500m.

3. Landfills and Other Waste Sites

Provides information on landfills and other waste sites that may pose a risk to the study site. This search is conducted using radii up to 1500m.

4. Current Land Uses

Provides information on current land uses that may pose a risk to the study site in terms of potential contamination from activities or processes. These searches are conducted using radii of up to 500m. This includes information on potentially contaminative industrial sites, petrol stations and fuel sites as well as high pressure gas pipelines and underground electricity transmission lines.

5. Geology

Provides information on artificial and superficial deposits and bedrock beneath the study site.

6. Hydrogeology and Hydrology

Provides information on productive strata within the bedrock and superficial geological layers, abstraction licenses, Source Protection Zones (SPZs) and river quality. These searches are conducted using radii of up to 2000m.

7. Flooding

Provides information on river and coastal flooding, flood defences, flood storage areas and groundwater flood areas. This search is conducted using radii of up to 250m.

8. Designated Environmentally Sensitive Sites

Provides information on the Sites of Special Scientific Interest (SSSI), National Nature Reserves (NNR), Special Areas of Conservation (SAC), Special Protection Areas (SPA), Ramsar sites, Local Nature Reserves (LNR), Areas of Outstanding Natural Beauty (AONB), National Parks (NP), Environmentally Sensitive Areas, Nitrate Sensitive Areas, Nitrate Vulnerable Zones and World Heritage Sites and Scheduled Ancient Woodland. These searches are conducted using radii of up to 2000m.

9. Natural Hazards

Provides information on a range of natural hazards that may pose a risk to the study site. These factors include natural ground subsidence and radon..

10. Mining

Provides information on areas of coal and non-coal mining and brine affected areas.

11. Contacts

This section of the report provides contact points for statutory bodies and data providers that may be able to provide further information on issues raised within this report. Alternatively, Groundsure provide a free Technical Helpline (08444 159000) for further information and guidance.

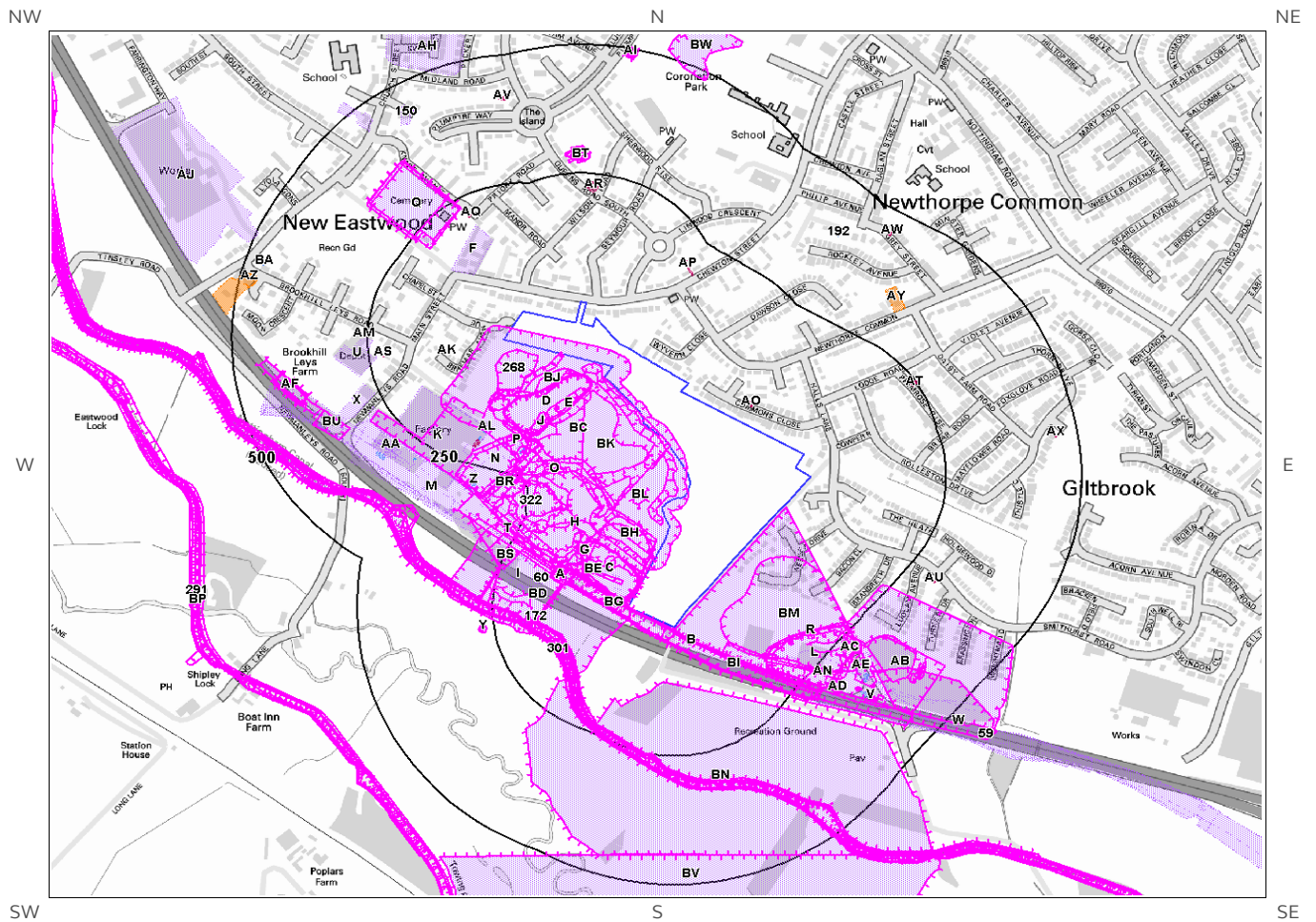
Note: Maps

Only certain features are placed on the maps within the report. All features represented on maps found within this search are given an identification number. This number identifies the feature on the mapping and correlates it to the additional information provided below. This identification number precedes all other information and takes the following format -Id: 1, Id: 2, etc. Where numerous features on the same map are in such close proximity that the numbers would obscure each other a letter identifier is used instead to represent the features. (e.g. Three features which overlap may be given the identifier "A" on the map and would be identified separately as features 1A, 3A, 10A on the data tables provided).

Where a feature is reported in the data tables to a distance greater than the map area, it is noted in the data table as "Not Shown".

All distances given in this report are in Metres (m). Directions are given as compass headings such as N: North, E: East, NE: North East from the nearest point of the study site boundary.

1. Historical Land Use



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1. Historical Industrial Sites

1.1 Potentially Contaminative Uses identified from 1:10,000 scale Mapping

The systematic analysis of data extracted from standard 1:10,560 and 1:10,000 scale historical maps provides the following information:

Records of sites with a potentially contaminative past land use within 500m of the search boundary: 169

| ID | Distance [m] | Direction | Use | Date |
|------|--------------|-----------|-----------------------------|------|
| 1O | 0 | On Site | Brick Works | 1949 |
| 2BB | 0 | On Site | Unspecified Ground Workings | 1966 |
| 3BC | 0 | On Site | Clay Pit | 1975 |
| 4B | 0 | On Site | Cuttings | 1921 |
| 5BD | 0 | On Site | Brick Works | 1899 |
| 6A | 0 | On Site | Brick Works | 1938 |
| 7A | 0 | On Site | Brick Works | 1921 |
| 8B | 0 | On Site | Cuttings | 1921 |
| 9B | 0 | SW | Cuttings | 1949 |
| 10C | 1 | NW | Unspecified Pit | 1921 |
| 11C | 1 | NW | Unspecified Pit | 1938 |
| 12H | 1 | NW | Refuse Heap | 1975 |
| 13R | 2 | SE | Unspecified Disused Mine | 1966 |
| 14BF | 3 | SW | Unspecified Ground Workings | 1966 |
| 15BG | 3 | SW | Cuttings | 1880 |
| 16C | 4 | NW | Unspecified Pit | 1921 |
| 17C | 4 | NW | Unspecified Pit | 1921 |
| 18BH | 5 | NW | Unspecified Heap | 1966 |
| 19C | 6 | NW | Unspecified Pit | 1949 |
| 20BI | 11 | S | Cuttings | 1880 |
| 21D | 24 | W | Unspecified Pit | 1938 |
| 22D | 24 | W | Unspecified Pit | 1921 |
| 23D | 26 | W | Unspecified Ground Workings | 1921 |
| 24D | 26 | W | Unspecified Ground Workings | 1921 |
| 25BJ | 26 | S | Unspecified Heap | 1966 |
| 26BK | 27 | SW | Unspecified Ground Workings | 1949 |
| 27D | 27 | W | Unspecified Ground Workings | 1949 |
| 28C | 28 | NW | Railway Sidings | 1921 |
| 29C | 28 | NW | Railway Sidings | 1938 |
| 30BE | 32 | NW | Railway Sidings | 1921 |

| | | | | |
|------|-----|----|-----------------------------|------|
| 31BL | 33 | NW | Unspecified Heap | 1966 |
| 32E | 40 | SW | Unspecified Heap | 1966 |
| 33BM | 41 | SE | Refuse Heap | 1966 |
| 34C | 60 | NW | Unspecified Heap | 1966 |
| 35AB | 97 | SE | Colliery | 1949 |
| 36W | 97 | SE | Railway Sidings | 1949 |
| 37 | 97 | W | Unspecified Ground Workings | 1966 |
| 38E | 102 | S | Old Coal Pit | 1880 |
| 39BN | 108 | S | Opencast Workings | 1975 |
| 40G | 110 | NW | Unspecified Ground Workings | 1966 |
| 41F | 115 | NW | Unspecified Works | 1988 |
| 42F | 115 | NW | Unspecified Works | 1984 |
| 43G | 117 | NW | Refuse Heap | 1949 |
| 44J | 118 | S | Unspecified Pit | 1899 |
| 45H | 118 | NW | Unspecified Ground Workings | 1949 |
| 46I | 129 | W | Brick Works | 1921 |
| 47I | 129 | W | Brick Works | 1921 |
| 48J | 131 | SW | Unspecified Heap | 1966 |
| 49I | 132 | W | Brick Works | 1949 |
| 50BQ | 138 | SW | Disused Canal | 1966 |
| 51H | 138 | NW | Unspecified Ground Workings | 1949 |
| 52V | 139 | SE | Railway Sidings | 1966 |
| 53M | 151 | NW | Railway Sidings | 1921 |
| 54T | 152 | NW | Cuttings | 1880 |
| 55K | 158 | SW | Unspecified Works | 1966 |
| 56K | 160 | SW | Unspecified Factory | 1984 |
| 57K | 160 | SW | Unspecified Factory | 1988 |
| 58K | 160 | SW | Unspecified Factory | 1975 |
| 59 | 163 | SE | Railway Sidings | 1899 |
| 60 | 164 | W | Chimneys | 1966 |
| 61L | 166 | SE | Unspecified Pit | 1938 |
| 62L | 166 | SE | Unspecified Pit | 1921 |
| 63L | 167 | SE | Refuse Heap | 1949 |
| 64L | 167 | SE | Unspecified Pit | 1921 |
| 65L | 167 | SE | Unspecified Pit | 1921 |
| 66M | 169 | W | Railway Sidings | 1938 |
| 67M | 169 | W | Railway Sidings | 1921 |
| 68N | 170 | S | Brick Works | 1921 |
| 69N | 170 | S | Brick Works | 1921 |
| 70O | 170 | W | Refuse Heap | 1949 |
| 71N | 171 | S | Brick Works | 1938 |
| 72N | 171 | S | Brick Works | 1899 |
| 73N | 171 | S | Brick Works | 1921 |

| | | | | |
|-------|-----|----|-----------------------------|------|
| 74P | 172 | S | Refuse Heap | 1949 |
| 75L | 174 | SE | Unspecified Pit | 1899 |
| 76AE | 174 | SE | Colliery and Brick Works | 1899 |
| 77O | 175 | SW | Unspecified Pit | 1949 |
| 78N | 175 | S | Unspecified Ground Workings | 1921 |
| 79N | 175 | S | Unspecified Ground Workings | 1921 |
| 80S | 180 | W | Refuse Heap | 1949 |
| 81N | 185 | S | Unspecified Works | 1975 |
| 82P | 186 | S | Unspecified Ground Workings | 1949 |
| 83I | 198 | W | Chimneys | 1966 |
| 84M | 203 | NW | Railway Sidings | 1880 |
| 85M | 209 | NW | Railway Sidings | 1966 |
| 86Q | 211 | NW | Cemetery | 1921 |
| 87Q | 211 | NW | Cemetery | 1938 |
| 88Q | 211 | NW | Cemetery | 1899 |
| 89R | 212 | SE | Refuse Heap | 1949 |
| 90Q | 217 | NW | Cemetery | 1921 |
| 91N | 217 | S | Unspecified Works | 1966 |
| 92S | 218 | W | Chimneys | 1966 |
| 93T | 224 | NW | Unspecified Ground Workings | 1949 |
| 94M | 224 | NW | Railway Sidings | 1949 |
| 95U | 235 | W | Unspecified Depot | 1984 |
| 96U | 235 | W | Unspecified Depot | 1988 |
| 97BR | 240 | S | Unspecified Pit | 1949 |
| 98BS | 245 | NW | Old Coal Pit | 1880 |
| 99Q | 248 | NW | Cemetery | 1984 |
| 100Q | 248 | NW | Cemetery | 1966 |
| 101Q | 248 | NW | Cemetery | 1975 |
| 102Q | 248 | NW | Cemetery | 1949 |
| 103Q | 248 | NW | Cemetery | 1988 |
| 104V | 251 | SE | Colliery | 1880 |
| 105W | 251 | SE | Railway Sidings | 1880 |
| 106X | 258 | SW | Unspecified Works | 1984 |
| 107X | 258 | SW | Unspecified Works | 1988 |
| 108AC | 261 | SE | Unspecified Pit | 1949 |
| 109Y | 263 | W | Unspecified Pit | 1880 |
| 110AN | 268 | SE | Magazine | 1880 |
| 111Y | 269 | W | Old Coal Pit | 1880 |
| 112Z | 275 | S | Unspecified Tanks | 1921 |
| 113Z | 276 | S | Unspecified Tanks | 1921 |
| 114Z | 276 | S | Unspecified Tanks | 1938 |
| 115Z | 281 | S | Chimney | 1966 |
| 116AA | 288 | SW | Railway Station | 1938 |

| | | | | |
|-------|-----|----|------------------------|------|
| 117AA | 288 | SW | Railway Station | 1899 |
| 118AA | 289 | SW | Railway Station | 1921 |
| 119AA | 290 | SW | Railway Station | 1921 |
| 120 | 290 | SE | Railway Sidings | 1921 |
| 121AA | 294 | SW | Railway Station | 1880 |
| 122AB | 295 | SE | Old Clay Pit | 1899 |
| 123AA | 296 | SW | Railway Station | 1949 |
| 124AA | 300 | SW | Railway Station | 1966 |
| 125AC | 302 | SE | Unspecified Tank | 1899 |
| 126AD | 305 | SE | Unspecified Old Shafts | 1921 |
| 127AD | 305 | SE | Unspecified Old Shafts | 1921 |
| 128AD | 306 | SE | Unspecified Old Shafts | 1938 |
| 129AA | 308 | SW | Railway Sidings | 1899 |
| 130AD | 310 | SE | Unspecified Shaft | 1880 |
| 131AD | 311 | SE | Unspecified Old Shafts | 1921 |
| 132M | 323 | SW | Railway Building | 1880 |
| 133AE | 331 | SE | Unspecified Tanks | 1899 |
| 134BU | 331 | SW | Cuttings | 1880 |
| 135AD | 334 | SE | Unspecified Old Shafts | 1921 |
| 136AD | 334 | SE | Unspecified Old Shafts | 1921 |
| 137AD | 334 | SE | Unspecified Old Shafts | 1938 |
| 138AD | 339 | SE | Unspecified Old Shafts | 1921 |
| 139AF | 361 | W | Cuttings | 1880 |
| 140V | 367 | SE | Unspecified Old Shafts | 1921 |
| 141V | 367 | SE | Unspecified Old Shafts | 1921 |
| 142V | 368 | SE | Unspecified Old Shafts | 1938 |
| 143V | 370 | SE | Unspecified Shaft | 1880 |
| 144V | 372 | SE | Unspecified Old Shafts | 1921 |
| 145V | 374 | SE | Brick Kiln | 1880 |
| 146AF | 376 | W | Cuttings | 1921 |
| 147AF | 378 | W | Cuttings | 1938 |
| 148AF | 378 | W | Cuttings | 1921 |
| 149AF | 379 | W | Cuttings | 1949 |
| 150 | 420 | NW | Malthouse | 1880 |
| 151AG | 426 | SW | Disused Canal | 1984 |
| 152AG | 426 | SW | Disused Canal | 1988 |
| 153AG | 426 | SW | Disused Canal | 1975 |
| 154BV | 442 | S | Opencast Workings | 1971 |
| 155 | 451 | NW | Malthouse | 1880 |
| 156AH | 478 | N | Unspecified Depot | 1988 |
| 157AH | 478 | N | Unspecified Depot | 1984 |
| 158AI | 483 | N | Unspecified Pit | 1949 |
| 159AI | 483 | N | Unspecified Pit | 1938 |
| 160AI | 483 | N | Unspecified Pit | 1921 |
| 161BW | 484 | NE | Refuse Heap | 1966 |
| 162AI | 486 | N | Old Coal Shaft | 1899 |

| | | | | |
|-------|-----|----|-----------------------|------|
| 163AI | 487 | N | Unspecified Old Shaft | 1921 |
| 164AI | 487 | N | Unspecified Old Shaft | 1921 |
| 165AI | 489 | N | Unspecified Old Shaft | 1949 |
| 166AI | 489 | N | Unspecified Old Shaft | 1938 |
| 167AI | 489 | N | Unspecified Old Shaft | 1921 |
| 168AJ | 495 | NW | Unspecified Works | 1988 |
| 169AJ | 495 | NW | Unspecified Works | 1984 |

1.2 Additional Information – Historical Tank Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical tanks within 500m of the search boundary:

24

| ID | Distance (m) | Direction | Use | Date |
|-------|--------------|-----------|------------------|------|
| 170AK | 106 | W | Unspecified Tank | 1961 |
| 171AK | 106 | W | Unspecified Tank | 1961 |
| 172 | 170 | W | Unspecified Tank | 1915 |
| 173AL | 174 | S | Tanks | 1975 |
| 174AL | 174 | S | Tanks | 1985 |
| 175P | 193 | S | Unspecified Tank | 1985 |
| 176P | 193 | S | Unspecified Tank | 1975 |
| 177AL | 193 | S | Tanks | 1975 |
| 178AL | 194 | S | Tanks | 1985 |
| 179AM | 256 | W | Unspecified Tank | 1995 |
| 180AM | 257 | W | Unspecified Tank | 1990 |
| 181AM | 257 | W | Unspecified Tank | 1990 |
| 182AA | 281 | SW | Unspecified Tank | 1985 |
| 183AA | 282 | SW | Unspecified Tank | 1975 |
| 184Z | 284 | S | Unspecified Tank | 1915 |
| 185Z | 294 | S | Unspecified Tank | 1915 |
| 186AC | 301 | SE | Unspecified Tank | 1900 |
| 187AN | 307 | SE | Unspecified Tank | 1961 |
| 188AA | 315 | SW | Tanks | 1990 |
| 189AE | 328 | SE | Tanks | 1900 |
| 190V | 346 | SE | Unspecified Tank | 1938 |
| 191V | 370 | SE | Unspecified Tank | 1961 |
| 192 | 397 | NE | Unspecified Tank | 1915 |
| 193BA | 462 | W | Unspecified Tank | 1975 |

1.3 Additional Information – Historical Energy Features Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical energy features within 500m of the search boundary:

47

| ID | Distance (m) | Direction | Use | Date |
|-------|--------------|-----------|------------------------|------|
| 194AO | 35 | NE | Electricity Substation | 1989 |
| 195AO | 35 | NE | Electricity Substation | 1987 |
| 196AO | 35 | NE | Electricity Substation | 1989 |
| 197AO | 36 | NE | Electricity Substation | 1970 |
| 198AO | 36 | NE | Electricity Substation | 1993 |
| 199AP | 182 | NE | Electricity Substation | 1969 |
| 200AP | 182 | NE | Electricity Substation | 1975 |
| 201AP | 182 | NE | Electricity Substation | 1989 |
| 202AP | 190 | NE | Electricity Substation | 1993 |
| 203AL | 200 | S | Electricity Substation | 1975 |
| 204AL | 204 | S | Electricity Substation | 1985 |
| 205AL | 204 | S | Electricity Substation | 1990 |
| 206AQ | 209 | NW | Electricity Substation | 1989 |
| 207AQ | 209 | NW | Electricity Substation | 1985 |
| 208AQ | 209 | NW | Electricity Substation | 1989 |
| 209AQ | 209 | NW | Electricity Substation | 1974 |
| 210AR | 214 | N | Electricity Substation | 1974 |
| 211AR | 214 | N | Electricity Substation | 1989 |
| 212AR | 214 | N | Electricity Substation | 1985 |
| 213AR | 214 | N | Electricity Substation | 1989 |
| 214AS | 221 | W | Electricity Substation | 1975 |
| 215AS | 221 | W | Electricity Substation | 1985 |
| 216AS | 221 | W | Electricity Substation | 1990 |
| 217AT | 240 | NE | Electricity Substation | 1970 |
| 218AT | 248 | NE | Electricity Substation | 1987 |
| 219AT | 248 | NE | Electricity Substation | 1989 |
| 220AT | 248 | NE | Electricity Substation | 1989 |
| 221AT | 248 | NE | Electricity Substation | 1972 |
| 222AT | 248 | NE | Electricity Substation | 1996 |
| 223AT | 248 | NE | Electricity Substation | 1993 |
| 224AT | 248 | NE | Electricity Substation | 1987 |
| 225AT | 248 | NE | Electricity Substation | 1988 |
| 226AN | 288 | SE | Electricity Substation | 1998 |
| 227AU | 303 | SE | Electricity Substation | 1988 |
| 228AU | 303 | SE | Electricity Substation | 1987 |
| 229AU | 303 | SE | Electricity Substation | 1996 |
| 230AV | 411 | N | Electricity Substation | 1989 |

| | | | | |
|-------|-----|----|------------------------|------|
| 231AV | 411 | N | Electricity Substation | 1989 |
| 232AV | 411 | N | Electricity Substation | 1985 |
| 233AV | 412 | N | Electricity Substation | 1974 |
| 234AW | 449 | NE | Electricity Substation | 1993 |
| 235AW | 449 | NE | Electricity Substation | 1989 |
| 236AW | 450 | NE | Electricity Substation | 1975 |
| 237AX | 455 | E | Electricity Substation | 1987 |
| 238AX | 455 | E | Electricity Substation | 1988 |
| 239AX | 457 | E | Electricity Substation | 1972 |
| 240AX | 457 | E | Electricity Substation | 1996 |

1.4 Additional Information – Historical Petrol and Fuel Site Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical petrol stations and fuel sites within 500m of the search boundary: 0

Database searched and no data found.

1.5 Additional Information – Historical Garage and Motor Vehicle Repair Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical garage and motor vehicle repair sites within 500m of the search boundary: 6

| ID | Distance (m) | Direction | Use | Date |
|-------|--------------|-----------|--------|------|
| 241AY | 324 | NE | Garage | 1993 |
| 242AY | 324 | NE | Garage | 1989 |
| 243AZ | 466 | W | Garage | 1990 |
| 244AZ | 466 | W | Garage | 1990 |
| 245AZ | 466 | W | Garage | 1975 |
| 246BA | 468 | W | Garage | 1995 |

1.6 Potentially Infilled Land

Records of Potentially Infilled Features from 1:10,000 scale mapping within 500m of the study site: 138

The following Historical Potentially Infilled Features derived from the Historical Mapping information is provided by Groundsure:

| ID | Distance(m) | Direction | Use | Date |
|------|-------------|-----------|-------------|------|
| 247B | 0 | On Site | Cuttings | 1921 |
| 248A | 0 | On Site | Brick Works | 1921 |

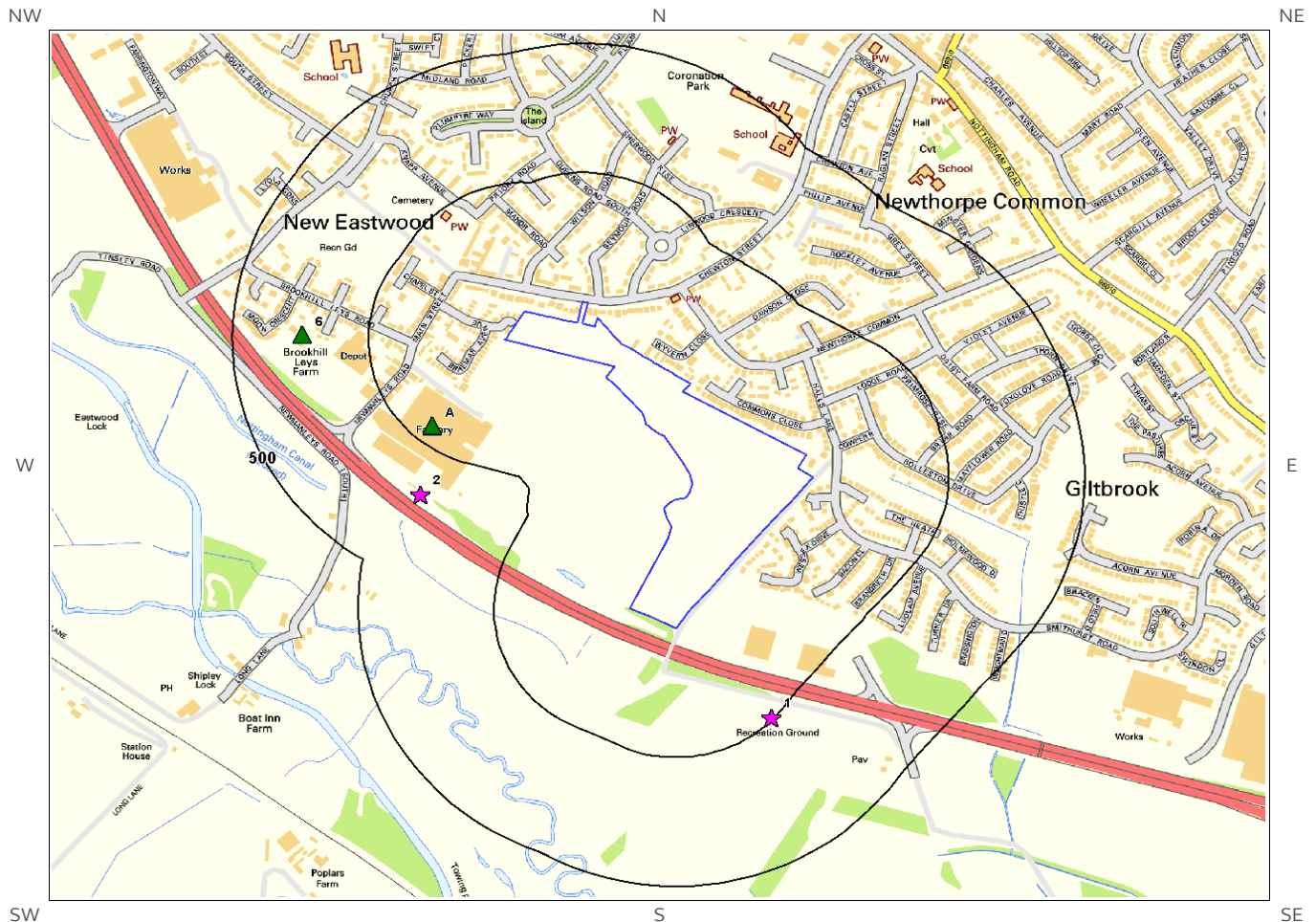
| | | | | |
|-------|-----|---------|-----------------------------|------|
| 249A | 0 | On Site | Brick Works | 1938 |
| 250BB | 0 | On Site | Unspecified Ground Workings | 1966 |
| 251O | 0 | On Site | Brick Works | 1949 |
| 252B | 0 | On Site | Cuttings | 1921 |
| 253BC | 0 | On Site | Clay Pit | 1975 |
| 254BD | 0 | On Site | Brick Works | 1899 |
| 255B | 0 | SW | Cuttings | 1949 |
| 256BE | 1 | NW | Unspecified Pit | 1921 |
| 257BE | 1 | NW | Unspecified Pit | 1938 |
| 258H | 1 | NW | Refuse Heap | 1975 |
| 259R | 2 | SE | Unspecified Disused Mine | 1966 |
| 260BF | 3 | SW | Unspecified Ground Workings | 1966 |
| 261BG | 3 | SW | Cuttings | 1880 |
| 262BE | 3 | NW | Water Body | 1966 |
| 263BE | 4 | NW | Unspecified Pit | 1921 |
| 264BE | 4 | NW | Unspecified Pit | 1921 |
| 265BH | 5 | NW | Unspecified Heap | 1966 |
| 266BE | 6 | NW | Unspecified Pit | 1949 |
| 267BI | 11 | S | Cuttings | 1880 |
| 268 | 12 | S | Pond | 1975 |
| 269D | 24 | W | Unspecified Pit | 1938 |
| 270D | 24 | W | Unspecified Pit | 1921 |
| 271D | 26 | W | Unspecified Ground Workings | 1921 |
| 272D | 26 | W | Unspecified Ground Workings | 1921 |
| 273BJ | 26 | S | Unspecified Heap | 1966 |
| 274BK | 27 | SW | Unspecified Ground Workings | 1949 |
| 275D | 27 | W | Unspecified Ground Workings | 1949 |
| 276BL | 33 | NW | Unspecified Heap | 1966 |
| 277E | 40 | SW | Unspecified Heap | 1966 |
| 278BM | 41 | SE | Refuse Heap | 1966 |
| 279BE | 60 | NW | Unspecified Heap | 1966 |
| 280AB | 97 | SE | Colliery | 1949 |
| 281O | 97 | W | Unspecified Ground Workings | 1966 |
| 282E | 102 | S | Old Coal Pit | 1880 |
| 283BN | 108 | S | Opencast Workings | 1975 |
| 284G | 110 | NW | Unspecified Ground Workings | 1966 |
| 285G | 117 | NW | Refuse Heap | 1949 |
| 286J | 118 | S | Unspecified Pit | 1899 |
| 287H | 118 | NW | Unspecified Ground Workings | 1949 |
| 288I | 129 | W | Brick Works | 1921 |

| | | | | |
|-------|-----|----|-----------------------------|------|
| 289I | 129 | W | Brick Works | 1921 |
| 290J | 131 | SW | Unspecified Heap | 1966 |
| 291 | 131 | SW | Canal | 1921 |
| 292BD | 132 | W | Brick Works | 1949 |
| 293BO | 134 | SW | Canal | 1938 |
| 294BO | 134 | SW | Canal | 1899 |
| 295BP | 135 | SW | Canal | 1880 |
| 296BP | 136 | SW | Canal | 1921 |
| 297BQ | 138 | SW | Disused Canal | 1966 |
| 298H | 138 | NW | Unspecified Ground Workings | 1949 |
| 299BO | 138 | NW | Water Body | 1966 |
| 300 | 139 | SW | Canal | 1949 |
| 301 | 143 | SW | Water Body | 1975 |
| 302T | 152 | NW | Cuttings | 1880 |
| 303AL | 152 | S | Pond | 1975 |
| 304L | 166 | SE | Unspecified Pit | 1921 |
| 305L | 166 | SE | Unspecified Pit | 1938 |
| 306L | 167 | SE | Refuse Heap | 1949 |
| 307L | 167 | SE | Unspecified Pit | 1921 |
| 308L | 167 | SE | Unspecified Pit | 1921 |
| 309N | 170 | S | Brick Works | 1921 |
| 310N | 170 | S | Brick Works | 1921 |
| 311O | 170 | W | Refuse Heap | 1949 |
| 312N | 171 | S | Brick Works | 1938 |
| 313N | 171 | S | Brick Works | 1921 |
| 314N | 171 | S | Brick Works | 1899 |
| 315P | 172 | S | Refuse Heap | 1949 |
| 316L | 174 | SE | Unspecified Pit | 1899 |
| 317AE | 174 | SE | Colliery and Brick Works | 1899 |
| 318O | 175 | SW | Unspecified Pit | 1949 |
| 319N | 175 | S | Unspecified Ground Workings | 1921 |
| 320N | 175 | S | Unspecified Ground Workings | 1921 |
| 321S | 180 | W | Refuse Heap | 1949 |
| 322 | 185 | W | Water Body | 1949 |
| 323P | 186 | S | Unspecified Ground Workings | 1949 |
| 324Q | 211 | NW | Cemetery | 1921 |
| 325Q | 211 | NW | Cemetery | 1899 |
| 326Q | 211 | NW | Cemetery | 1938 |
| 327L | 212 | SE | Refuse Heap | 1949 |
| 328Q | 217 | NW | Cemetery | 1921 |
| 329BO | 224 | NW | Unspecified Ground Workings | 1949 |
| 330BR | 240 | S | Unspecified Pit | 1949 |

| | | | | |
|-------|-----|----|------------------------|------|
| 331BS | 245 | NW | Old Coal Pit | 1880 |
| 332Q | 248 | NW | Cemetery | 1966 |
| 333Q | 248 | NW | Cemetery | 1984 |
| 334Q | 248 | NW | Cemetery | 1975 |
| 335Q | 248 | NW | Cemetery | 1988 |
| 336Q | 248 | NW | Cemetery | 1949 |
| 337AD | 251 | SE | Colliery | 1880 |
| 338AC | 261 | SE | Unspecified Pit | 1949 |
| 339Y | 263 | W | Unspecified Pit | 1880 |
| 340Y | 269 | W | Old Coal Pit | 1880 |
| 341BT | 270 | N | Pond | 1880 |
| 342BT | 275 | N | Pond | 1921 |
| 343BT | 277 | N | Pond | 1938 |
| 344BT | 280 | N | Pond | 1921 |
| 345AB | 295 | SE | Old Clay Pit | 1899 |
| 346AD | 305 | SE | Unspecified Old Shafts | 1921 |
| 347AD | 305 | SE | Unspecified Old Shafts | 1921 |
| 348AD | 306 | SE | Unspecified Old Shafts | 1938 |
| 349AE | 309 | SE | Ponds | 1880 |
| 350AD | 310 | SE | Unspecified Shaft | 1880 |
| 351AD | 311 | SE | Unspecified Old Shafts | 1921 |
| 352BU | 331 | SW | Cuttings | 1880 |
| 353AD | 334 | SE | Unspecified Old Shafts | 1921 |
| 354AD | 334 | SE | Unspecified Old Shafts | 1921 |
| 355AD | 334 | SE | Unspecified Old Shafts | 1938 |
| 356AD | 339 | SE | Unspecified Old Shafts | 1921 |
| 357AF | 361 | W | Cuttings | 1880 |
| 358V | 367 | SE | Unspecified Old Shafts | 1921 |
| 359V | 367 | SE | Unspecified Old Shafts | 1921 |
| 360V | 368 | SE | Unspecified Old Shafts | 1938 |
| 361V | 370 | SE | Unspecified Shaft | 1880 |
| 362V | 372 | SE | Unspecified Old Shafts | 1921 |
| 363V | 374 | SE | Brick Kiln | 1880 |
| 364AF | 376 | W | Cuttings | 1921 |
| 365AF | 378 | W | Cuttings | 1921 |
| 366AF | 378 | W | Cuttings | 1938 |
| 367AF | 379 | W | Cuttings | 1949 |
| 368AB | 391 | SE | Pond | 1949 |
| 369AB | 395 | SE | Pond | 1899 |
| 370AB | 395 | SE | Pond | 1938 |
| 371AG | 426 | SW | Disused Canal | 1984 |
| 372AG | 426 | SW | Disused Canal | 1975 |
| 373AG | 426 | SW | Disused Canal | 1988 |
| 374BV | 442 | S | Opencast Workings | 1971 |
| 375AI | 483 | N | Unspecified Pit | 1949 |
| 376AI | 483 | N | Unspecified Pit | 1938 |

| | | | | |
|-------|-----|----|-----------------------|------|
| 377AI | 483 | N | Unspecified Pit | 1921 |
| 378BW | 484 | NE | Refuse Heap | 1966 |
| 379AI | 486 | N | Old Coal Shaft | 1899 |
| 380AI | 487 | N | Unspecified Old Shaft | 1921 |
| 381AI | 487 | N | Unspecified Old Shaft | 1921 |
| 382AI | 489 | N | Unspecified Old Shaft | 1949 |
| 383AI | 489 | N | Unspecified Old Shaft | 1921 |
| 384AI | 489 | N | Unspecified Old Shaft | 1938 |

2. Environmental Permits, Incidents and Registers Map



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- | | | |
|---|---|--|
|  Site Outline |  Recorded Pollution Incident |  RAS 3 & 4 Authorisations |
|  Dangerous Substances (List 1) |  Dangerous Substances (List 2) |  Part A(1) Authorised Processes and Historic IPC Authorisations |
|  Water Industry Referrals |  Licenced Discharge Consents |  Part A(2) and Part B Authorised Processes |
|  Red List Discharge Consents |  Sites Determined as Contaminated Land |  COMAH / NIHHS Sites |
| |  Hazardous Substance Consents and Enforcements | |

2. Environmental Permits, Incidents and Registers

2.1 Industrial Sites Holding Licences and/or Authorisations

Searches of information provided by the Environment Agency/Natural Resources Wales and Local Authorities reveal the following information:

2.1.1 Records of historic IPC Authorisations within 500m of the study site:

0

Database searched and no data found.

2.1.2 Records of Part A(1) and IPPC Authorised Activities within 500m of the study site:

0

Database searched and no data found.

2.1.3 Records of Red List Discharge Consents (potentially harmful discharges to controlled waters) within 500m of the study site:

0

Database searched and no data found.

2.1.4 Records of List 1 Dangerous Substances Inventory Sites within 500m of the study site:

0

Database searched and no data found.

2.1.5 Records of List 2 Dangerous Substance Inventory Sites within 500m of the study site:

0

Database searched and no data found.

2.1.6 Records of Part A(2) and Part B Activities and Enforcements within 500m of the study site:

4

The following Part A(2) and Part B Activities are represented as points on the Environmental Permits, Incidents and Registers Map:

| ID | Distance (m) | Direction | NGR | Details |
|----|--------------|-----------|------------------|---|
| 3A | 216 | SW | 446608 345834 | <p>Address: Beamlight Automotive Seating Ltd, Burnham Products Division, Newmanleys, Eastwood, Nottingham, NG16 3JD</p> <p>Process: Powder coating processes (including sheradizing)</p> <p>Status: Revoked</p> <p>Permit Type: Part B</p> <p>Enforcement: No Enforcements Notified</p> <p>Date of Enforcement: No Enforcements Notified</p> <p>Comment: No Enforcements Notified</p> |
| 4A | 216 | SW | 446608 345834 | <p>Address: Magna Seating Systems, Newmanleys Road, Nottingham, NG16 3JG</p> <p>Process: Coating & Enamelling process</p> <p>Status: Historical Permit</p> <p>Permit Type: Part B</p> <p>Enforcement: No Enforcements Notified</p> <p>Date of Enforcement: No Enforcements Notified</p> <p>Comment: No Enforcements Notified</p> |
| 5A | 218 | SW | 446608 345831 | <p>Address: Beamlight Automotive, Newmanleys Road, New Eastwood, NG16 3JG</p> <p>Process: Powder Paint Process</p> <p>Status: Historical Permit</p> <p>Permit Type: Part B</p> <p>Enforcement: No Enforcements Notified</p> <p>Date of Enforcement: No Enforcements Notified</p> <p>Comment: No Enforcements Notified</p> |
| 6 | 372 | W | 446370 346009 | <p>Address: Yeomans Meat, Brookhill Leys Road, Eastwood, Nottingham, NG16 3HZ</p> <p>Process: Pet Food Manufacture</p> <p>Status: Revoked</p> <p>Permit Type: Part B</p> <p>Enforcement: No Enforcements Notified</p> <p>Date of Enforcement: No Enforcements Notified</p> <p>Comment: No Enforcements Notified</p> |

2.1.7 Records of Category 3 or 4 Radioactive Substances Authorisations:

0

Database searched and no data found.

2.1.8 Records of Licensed Discharge Consents within 500m of the study site:

0

Database searched and no data found.

2.1.9 Records of Water Industry Referrals (potentially harmful discharges to the public sewer) within 500m of the study site:

0

Database searched and no data found.

2.1.10 Records of Planning Hazardous Substance Consents and Enforcements within 500m of the study site:

0

Database searched and no data found.

2.2 Dangerous or Hazardous Sites

Records of COMAH & NIHHS sites within 500m of the study site:

0

Database searched and no data found.

2.3 Environment Agency/Natural Resources Wales Recorded Pollution Incidents

2.3.1 Records of National Incidents Recording System, List 2 within 500m of the study site:

2

The following NIRS List 2 records are represented as points on the Environmental Permits, Incidents and Registers Map:

| ID | Distance (m) | Direction | NGR | Details |
|----|--------------|-----------|------------------|--|
| 1 | 245 | SE | 447230 345270 | Incident Date: 10-Jul-2002 Incident Identification: 90550 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Other General Biodegradable Material or Waste Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact) |
| 2 | 339 | SW | 446586 345703 | Incident Date: 09-May-2003 Incident Identification: 157083 Pollutant: Sewage Materials Pollutant Description: Crude Sewage Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact) |

2.3.2 Records of National Incidents Recording System, List 1 within 500m of the study site:

0

Database searched and no data found.

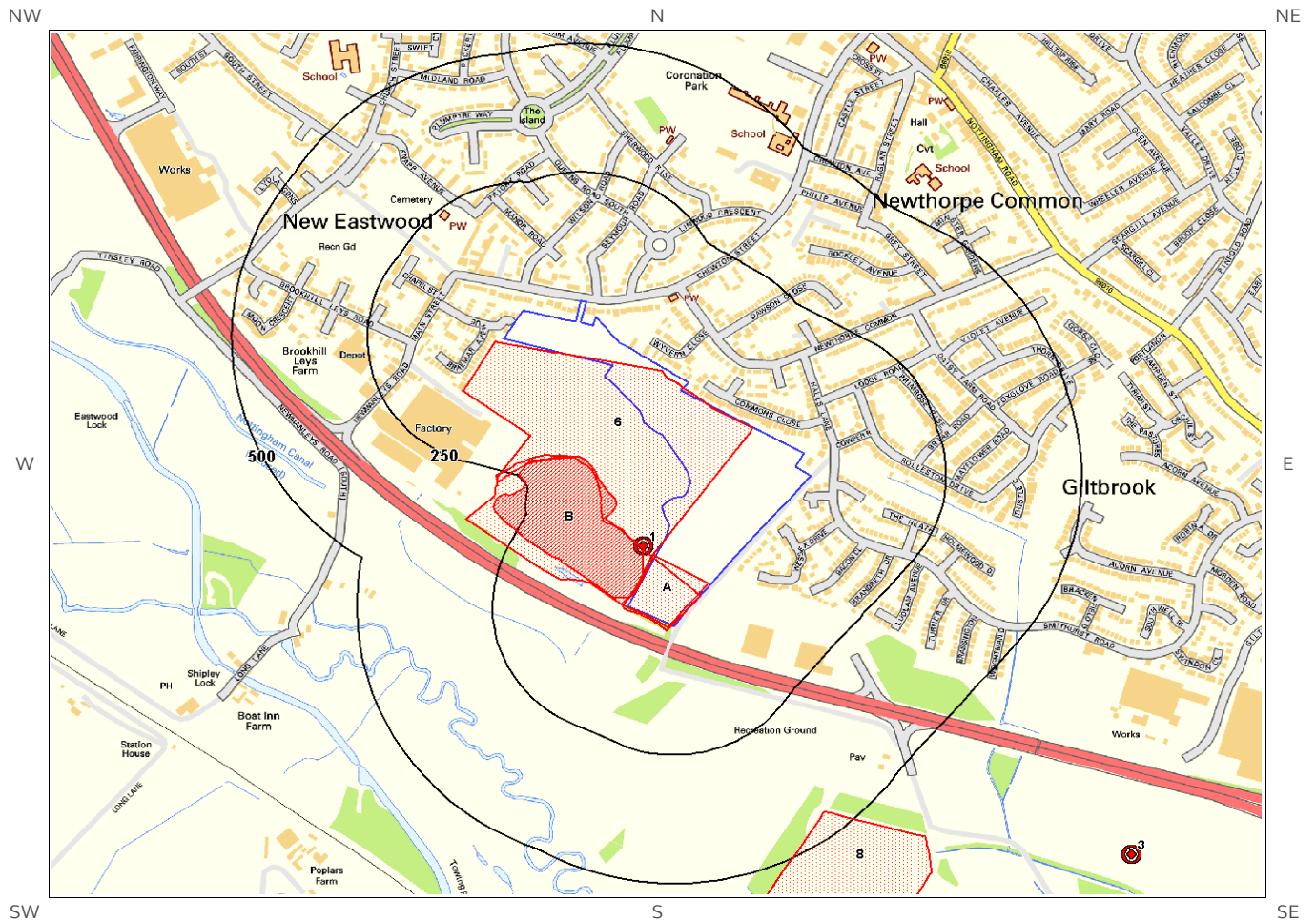
2.4 Sites Determined as Contaminated Land under Part 2A EPA 1990

Records of sites determined as contaminated land under Section 78R of the Environmental Protection Act 1990 are there within 500m of the study site

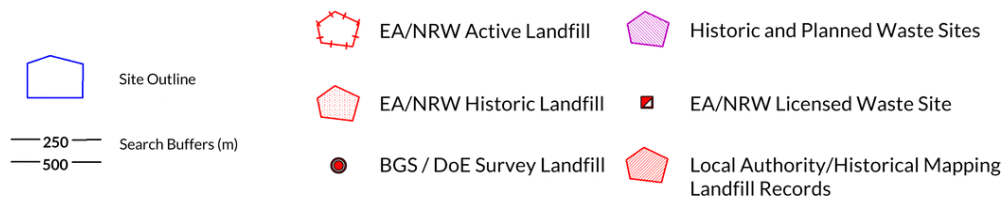
0

Database searched and no data found.

3. Landfill and Other Waste Sites Map



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3. Landfill and Other Waste Sites

3.1 Landfill Sites

3.1.1 Records from Environment Agency/Natural Resources Wales landfill data within 1000m of the study site:

0

Database searched and no data found.

3.1.2 Records of Environment Agency/Natural Resources Wales historic landfill sites within 1500m of the study site:

6

The following landfill records are represented as either points or polygons on the Landfill and Other Waste Sites map:

| ID | Distance (m) | Direction | NGR | Details |
|----|--------------|-----------|------------------|--|
| 4A | 0 | On Site | 447000 345500 | <p>Site Address: Gibson Waste/Eastwood Tip, Formerly Matkins, Halls Lane, Eastwood</p> <p>Waste Licence: Yes</p> <p>Site Reference: 5/77/24/44, 5/84/81/44NE</p> <p>Waste Type: Inert, Industrial, Commercial, Household, Special, Liquid sludge</p> <p>Environmental Permitting Regulations (Waste) Reference: -</p> <p>Licence Issue: 15-Aug-1978</p> <p>Licence Surrendered: 27-Jul-1993</p> <p>Licence Holder Address: 1 Woodsthorpe Road, Mapperley, Nottingham</p> <p>Operator: -</p> <p>Licence Holder: The Gibson Waste Company Limited</p> <p>First Recorded: 31-Dec-1972</p> <p>Last Recorded: 31-Dec-1985</p> |
| 5A | 0 | On Site | 447000 345500 | <p>Site Address: Matkin, Hales Lane, Newthorpe, Near Eastwood, Nottinghamshire</p> <p>Waste Licence: -</p> <p>Site Reference: -</p> <p>Waste Type: Industrial, Commercial</p> <p>Environmental Permitting Regulations (Waste) Reference: -</p> <p>Licence Issue:</p> <p>Licence Surrendered:</p> <p>Licence Holder Address: -</p> <p>Operator: Mr J Mackin</p> <p>Licence Holder: -</p> <p>First Recorded: 23-Dec-1970</p> <p>Last Recorded: -</p> |
| 6 | 0 | On Site | 446900 345800 | <p>Site Address: Eastwood Tip/Eastwood Landfill Site, Halls Lane, Eastwood, Nottingham</p> <p>Waste Licence: Yes</p> <p>Site Reference: 5/84/81/44NE, 5/78/81/44NE</p> <p>Waste Type: Inert, Industrial, Commercial, Household, Special, Liquid sludge</p> <p>Environmental Permitting Regulations (Waste) Reference: -</p> <p>Licence Issue: 15-Aug-1978</p> <p>Licence Surrendered: 27-Jul-1993</p> <p>Licence Holder Address: Lindon Road, Brownhills, Walsall, West Midlands</p> <p>Operator: -</p> <p>Licence Holder: Leigh Interests Plc</p> <p>First Recorded: 31-Dec-1972</p> <p>Last Recorded: 31-Dec-1985</p> |

| ID | Distance (m) | Direction | NGR | Details | |
|-----------|--------------|-----------|------------------|--|--|
| 7B | 0 | NW | 446800 345600 | Site Address: Eastwood Tip, Halls Lane, Eastwood, Nottinghamshire Waste Licence: Yes Site Reference: 5/84/81/44NE Waste Type: Inert, Industrial, Commercial, Household, Special, Liquid sludge Environmental Permitting Regulations (Waste) Reference: - | Licence Issue: 15-Aug-1978 Licence Surrendered: 27-Jul-1993 Licence Holder Address: - Operator: - Licence Holder: Leigh Environmental Limited First Recorded: 31-Dec-1972 Last Recorded: 31-Dec-1985 |
| 8 | 455 | SE | 447400 344800 | Site Address: Shilo OCCS, Newton Lane, Cossall, Nottingham, Nottinghamshire Waste Licence: - Site Reference: - Waste Type: Liquid sludge Environmental Permitting Regulations (Waste) Reference: - | Licence Issue: Licence Surrendered: Licence Holder Address: - Operator: R McGregor and Sons Limited Licence Holder: - First Recorded: 28-Feb-1971 Last Recorded: - |
| Not shown | 1491 | SE | 448300 344400 | Site Address: Rear Barlow's Cottages, Awsworth, Nottinghamshire Waste Licence: - Site Reference: - Waste Type: - Environmental Permitting Regulations (Waste) Reference: - | Licence Issue: Licence Surrendered: Licence Holder Address: - Operator: J F Hayeshill Licence Holder: - First Recorded: 31-Dec-1970 Last Recorded: - |

3.1.3 Records of BGS/DoE non-operational landfill sites within 1500m of the study site:

3

The following landfill records are represented as points on the Landfill and Other Waste Sites map:

| ID | Distance (m) | Direction | NGR | Details | |
|-----------|--------------|-----------|----------------------|---|---|
| 1 | 30 | NW | 447000.0 345600.0 | Address: Matkin, Hales Lane, Newthorpe nr Eastwood BGS Number: 1734.0 | Risk: No risk to aquifer Waste Type: N/A |
| Not shown | 781 | SE | 447500.0 344800.0 | Address: Shilo OCCS, Newton Lane, Cossall, Nottingham BGS Number: 2811.0 | Risk: No risk to aquifer Waste Type: N/A |
| 3 | 930 | SE | 447900.0 345000.0 | Address: Poundalls Priv. Tip, Cromford Rd, Langley Mill, DY BGS Number: 1320.0 | Risk: No risk to aquifer Waste Type: N/A |

3.1.4 Records of Landfills from Local Authority and Historical Mapping Records within 1500m of the study site:

2

The following landfill records are represented as points or polygons on the Landfill and Other Waste Sites map:

| ID | Distance (m) | Direction | NGR | Site Address | Source | Data Type |
|-----|--------------|-----------|------------------|--------------|--------------|-----------|
| 24B | 1 | NW | 446862 345637 | Refuse Tip | 1974 mapping | Polygon |

| ID | Distance (m) | Direction | NGR | Site Address | Source | Data Type |
|-----------|--------------|-----------|------------------|--------------|--------------|-----------|
| Not shown | 993 | NW | 445844 346535 | Refuse Tip | 1972 mapping | Polygon |

3.2 Other Waste Sites

3.2.1 Records of waste treatment, transfer or disposal sites within 500m of the study site:

0

Database searched and no data found.

3.2.2 Records of Environment Agency/Natural Resources Wales licensed waste sites within 1500m of the study site:

14

The following waste treatment, transfer or disposal sites records are represented as points on the Landfill and Other Waste Sites map:

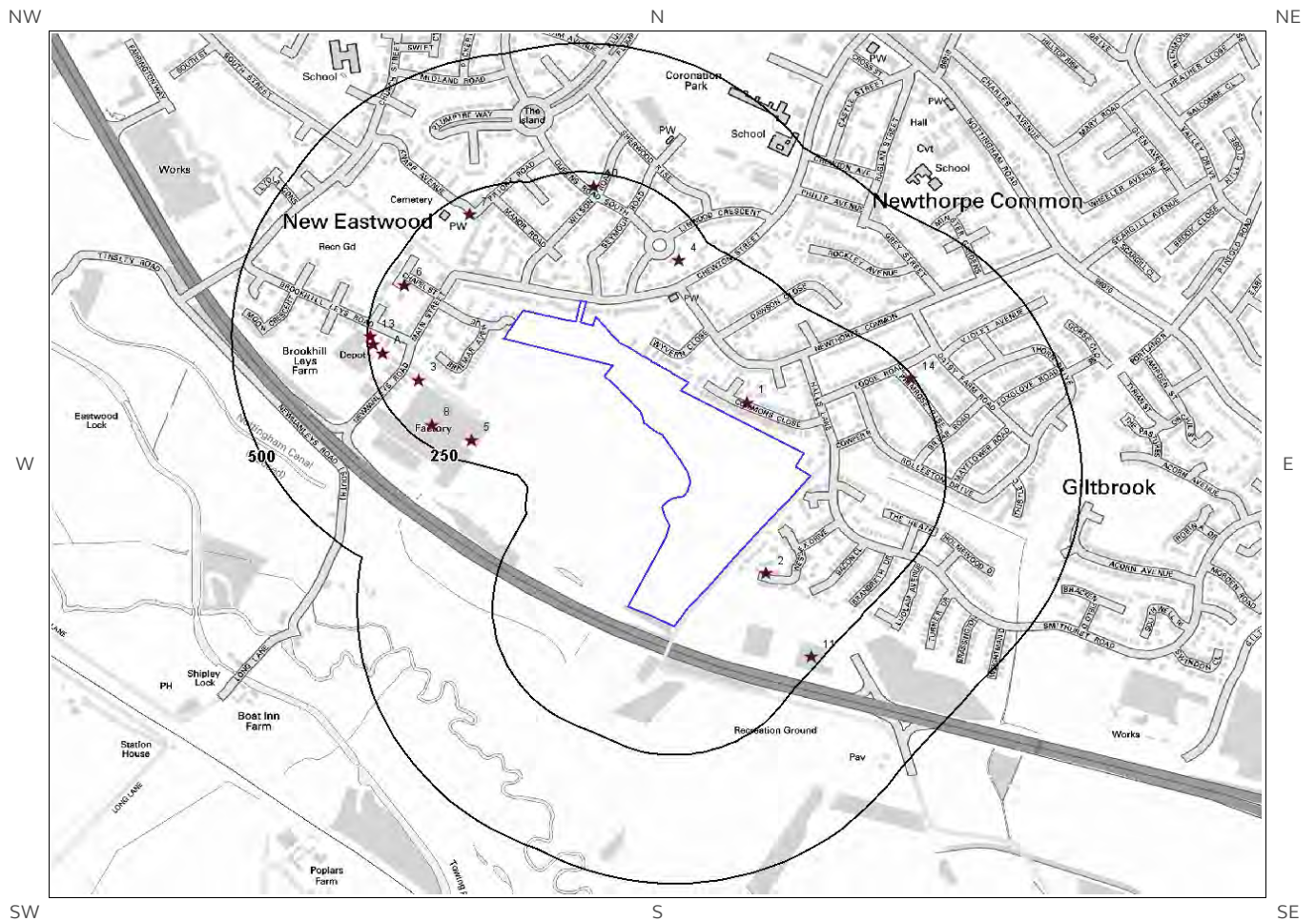
| ID | Distance (m) | Direction | NGR | Details |
|-----------|--------------|-----------|------------------|--|
| Not shown | 1127 | NW | 445905 346769 | <p>Site Address: Units 5 6 & 7, Great Northern Road, Eastwood, Nottingham, Nottinghamshire, NG16 3PD Type: ELV Facility Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: PRO002 EPR reference: EA/EPR/CP3590CM/A001 Operator: Project Bikes Ltd Waste Management licence No: 43588 Annual Tonnage: 2499.0</p> <p>Issue Date: 25/10/2004 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Project Bikes Ltd Correspondence Address: Units 5 6 & 7, Great Northern Road, Eastwood, Nottingham, Nottinghamshire, NG16</p> |
| Not shown | 1127 | NW | 445905 346769 | <p>Site Address: "Units 5, 6 & 7", Great Northern Road, Eastwood, Nottingham, Nottinghamshire, NG16 3PD Type: ELV Facility Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: PRO002 EPR reference: - Operator: Project Bikes Limited Waste Management licence No: 43588 Annual Tonnage: 0.0</p> <p>Issue Date: 25/10/2004 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Project Bikes Limited Correspondence Address: Unit 5, Great Northern Road, Eastwood, Nottingham, Nottinghamshire, NG16 3PD</p> |
| Not shown | 1449 | SE | 448643 345174 | <p>Site Address: Gilthill Civic Amenity Site, Kimberley, Nottingham, Nottinghamshire, NG16 5LZ Type: Household, Commercial & Industrial Waste T Stn Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SOU010 EPR reference: - Operator: South Herts Waste Management Ltd Waste Management licence No: 43423 Annual Tonnage: 0.0</p> <p>Issue Date: 23/05/1994 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Giltbrook Household Waste Centre Correspondence Address: 12, Barbers Road, Stratford, London, E15 2PH</p> |

| ID | Distance (m) | Direction | NGR | Details |
|-----------|--------------|-----------|------------------|--|
| Not shown | 1449 | SE | 448644 345175 | <p>Site Address: Gilt Hill Civic Amenity Site, Kimberley, Nottingham, Nottinghamshire, NG16 5LZ</p> <p>Type: Household, Commercial & Industrial Waste T Stn</p> <p>Size: < 25000 tonnes</p> <p>Environmental Permitting Regulations (Waste) Licence Number: VEO011</p> <p>EPR reference: -</p> <p>Operator: Veolia Environmental Services Plc</p> <p>Waste Management licence No: 43423</p> <p>Annual Tonnage: 0.0</p> <p>Issue Date: 23/05/1994</p> <p>Effective Date: 01/06/2006</p> <p>Modified: 09/06/2004</p> <p>Surrendered Date: -</p> <p>Expiry Date: -</p> <p>Cancelled Date: -</p> <p>Status: Transferred</p> <p>Site Name: Giltbrook Household Waste Centre</p> <p>Correspondence Address: Lumbley Street, Sheffield, South Yorkshire, S4 7ZJ</p> |
| Not shown | 1449 | SE | 448644 345175 | <p>Site Address: Gilt Hill Civic Amenity Site, Gilt Hill, Kimberley, Nottingham, Nottinghamshire, NG16 2HR</p> <p>Type: Household, Commercial & Industrial Waste T Stn</p> <p>Size: < 25000 tonnes</p> <p>Environmental Permitting Regulations (Waste) Licence Number: VEO011</p> <p>EPR reference: -</p> <p>Operator: Veolia Environmental Services U K Plc</p> <p>Waste Management licence No: 43423</p> <p>Annual Tonnage: 25000.0</p> <p>Issue Date: 23/05/1994</p> <p>Effective Date: 01/06/2006</p> <p>Modified: 04/06/2008</p> <p>Surrendered Date: -</p> <p>Expiry Date: -</p> <p>Cancelled Date: -</p> <p>Status: Modified</p> <p>Site Name: Giltbrook Household Waste Site</p> <p>Correspondence Address: Freeth Street, Nottingham, Nottinghamshire, NG2 3GT</p> |
| Not shown | 1449 | SE | 448644 345175 | <p>Site Address: Gilt Hill, Kimberley, Nottingham, Nottinghamshire, NG16 2HR</p> <p>Type: Household Waste Amenity Site</p> <p>Size: < 25000 tonnes</p> <p>Environmental Permitting Regulations (Waste) Licence Number: VEO145</p> <p>EPR reference: PP3591EY/T001</p> <p>Operator: Veolia E S Nottinghamshire Ltd</p> <p>Waste Management licence No: 43423</p> <p>Annual Tonnage: 25000.0</p> <p>Issue Date: 23/05/1994</p> <p>Effective Date: 24/11/2010</p> <p>Modified: 04/06/2008</p> <p>Surrendered Date: -</p> <p>Expiry Date: -</p> <p>Cancelled Date: -</p> <p>Status: Transferred</p> <p>Site Name: Giltbrook Household Waste Site</p> <p>Correspondence Address: Gilt Hill, Kimberley, Nottingham, Nottinghamshire, NG16</p> |
| Not shown | 1449 | SE | 448644 345175 | <p>Site Address: Gilt Hill, Kimberley, Nottingham, Nottinghamshire, NG16 2HR</p> <p>Type: 75kte Non-hazardous & hazardous HWA Site</p> <p>Size: < 25000 tonnes</p> <p>Environmental Permitting Regulations (Waste) Licence Number: VEO145</p> <p>EPR reference: EA/EPR/PP3591EY/V002</p> <p>Operator: Veolia E S Nottinghamshire Ltd</p> <p>Waste Management licence No: 43423</p> <p>Annual Tonnage: 74999.0</p> <p>Issue Date: 23/05/1994</p> <p>Effective Date: 24/11/2010</p> <p>Modified: 02/06/2011</p> <p>Surrendered Date: -</p> <p>Expiry Date: -</p> <p>Cancelled Date: -</p> <p>Status: Modified</p> <p>Site Name: Giltbrook Household Waste Site</p> <p>Correspondence Address: Gilt Hill, Kimberley, Nottingham, Nottinghamshire, NG16</p> |
| Not shown | 1449 | SE | 448644 345175 | <p>Site Address: Gilt Hill Civic Amenity Site, Gilt Hill, Kimberley, Nottingham, Nottinghamshire, NG16 2HR</p> <p>Type: Household Waste Amenity Site</p> <p>Size: < 25000 tonnes</p> <p>Environmental Permitting Regulations (Waste) Licence Number: VEO011</p> <p>EPR reference: QP3193CV/V005</p> <p>Operator: Veolia Environmental Services (U K) Plc</p> <p>Waste Management licence No: 43423</p> <p>Annual Tonnage: 25000.0</p> <p>Issue Date: 23/05/1994</p> <p>Effective Date: 01/06/2006</p> <p>Modified: 04/06/2008</p> <p>Surrendered Date: -</p> <p>Expiry Date: -</p> <p>Cancelled Date: -</p> <p>Status: Modified</p> <p>Site Name: Giltbrook Household Waste Site</p> <p>Correspondence Address: Gilt Hill Civic Amenity Site, Gilt Hill, Kimberley, Nottingham, Nottinghamshire, NG16</p> |

| ID | Distance (m) | Direction | NGR | Details |
|-----------|--------------|-----------|------------------|---|
| Not shown | 1449 | SE | 448644 345175 | <p>Site Address: Giltthill Civic Amenity Site, Gilt Hill, Kimberley, Nottingham, Nottinghamshire, NG16 2HR Type: Household, Commercial & Industrial Waste T Stn Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: VEO011 EPR reference: - Operator: Veolia Environmental Services (U K) Plc Waste Management licence No: 43423 Annual Tonnage: 25000.0</p> <p>Issue Date: 5/23/1994 Effective Date: 6/1/2006 Modified: 6/4/2008 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: Giltbrook Household Waste Site Correspondence Address: Freeth Street, Nottingham, Nottinghamshire, NG2 3GT</p> |
| Not shown | 1488 | SE | 448667 345130 | <p>Site Address: Giltbrook Transfer Station, Gilt Hill, Kimberley, Nottingham, Nottinghamshire, NG16 2HR Type: Household, Commercial & Industrial Waste T Stn Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: VEO146 EPR reference: EA/EPR/PP3592EQ/V002 Operator: Veolia E S Nottinghamshire Ltd Waste Management licence No: 43557 Annual Tonnage: 24999.0</p> <p>Issue Date: 04/09/2003 Effective Date: 24/11/2010 Modified: 22/12/2010 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: Giltbrook Transfer Station Correspondence Address: Giltbrook Transfer Station, Gilt Hill, Kimberley, Nottingham, Nottinghamshire, NG16</p> |
| Not shown | 1488 | SE | 448667 345130 | <p>Site Address: Giltbrook H W C, Gilt Hill, Kimberley, Nottingham, Nottinghamshire, NG16 5LZ Type: Household, Commercial & Industrial Waste T Stn Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: VEO017 EPR reference: - Operator: Veolia Environmental Services Plc Waste Management licence No: 43557 Annual Tonnage: 0.0</p> <p>Issue Date: 04/09/2003 Effective Date: 01/06/2006 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred Site Name: Giltbrook H W C Correspondence Address: Trentside Offices, Freeth Street, Nottingham, Nottinghamshire, NG2 3GT</p> |
| Not shown | 1488 | SE | 448667 345130 | <p>Site Address: Giltbrook Transfer Station, Gilt Hill, Kimberley, Nottingham, Nottinghamshire, NG16 2HR Type: Household, Commercial & Industrial Waste T Stn Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: VEO017 EPR reference: - Operator: Veolia Environmental Services (U K) Plc Waste Management licence No: 43557 Annual Tonnage: 5000.0</p> <p>Issue Date: 9/4/2003 Effective Date: 6/1/2006 Modified: 11/30/2006 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: Giltbrook Transfer Station Correspondence Address: Trentside Offices, Freeth Street, Nottingham, Nottinghamshire, NG2 3GT</p> |
| Not shown | 1492 | E | 448700 345200 | <p>Site Address: Giltbrook H W C, Gilt Hill, Kimberley, Nottingham, Nottinghamshire Type: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: SOU020 EPR reference: - Operator: South Herts Waste Management Limited Waste Management licence No: 43557 Annual Tonnage: 0.0</p> <p>Issue Date: 04/09/2003 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Giltbrook H W C Correspondence Address: 48, Cardigan Road, Stanion, Northants, NN14 1BY</p> |

| ID | Distance (m) | Direction | NGR | Details | |
|-----------|--------------|-----------|------------------|--|--|
| Not shown | 1492 | E | 448700 345200 | Site Address: Giltbrook H W C, Gilt Hill, Kimberley, Nottingham, Nottinghamshire Type: Household, Commercial & Industrial Waste T Stn Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SOU020 EPR reference: - Operator: South Herts Waste Management Limited Waste Management licence No: 43557 Annual Tonnage: 0.0 | Issue Date: 04/09/2003 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Giltbrook H W C Correspondence Address: 48, Cardigan Road, Stanion, Northants, NN14 1BY |

4. Current Land Use Map



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4. Current Land Uses

4.1 Current Industrial Data

Records of potentially contaminative industrial sites within 250m of the study site:

14

The following records are represented as points on the Current Land Uses map.

| ID | Distance (m) | Direction | Company | NGR | Address | Activity | Category |
|-----|--------------|-----------|-------------------------|---------------|---|---|---------------------------------|
| 1 | 39 | NE | Electricity Sub Station | 447191 345880 | NG16 | Electrical Features | Infrastructure and Facilities |
| 2 | 62 | SE | Electricity Sub Station | 447225 345548 | NG16 | Electrical Features | Infrastructure and Facilities |
| 3 | 176 | SW | New Eastwood Garage | 446585 345923 | 1a, Newmanleys Road, Eastwood, Nottingham, NG16 3JD | Vehicle Repair, Testing and Servicing | Repair and Servicing |
| 4 | 188 | NE | Electricity Sub Station | 447065 346156 | NG16 | Electrical Features | Infrastructure and Facilities |
| 5 | 205 | S | Electricity Sub Station | 446683 345807 | NG16 | Electrical Features | Infrastructure and Facilities |
| 6 | 211 | NW | Asgard Cash Registers | 446558 346108 | 33, Chapel Street, Eastwood, Nottingham, NG16 3JL | Office and Shop Equipment | Industrial Products |
| 7 | 212 | NW | Electricity Sub Station | 446679 346245 | NG16 | Electrical Features | Infrastructure and Facilities |
| 8 | 213 | SW | Factory | 446610 345836 | NG16 | Unspecified Works Or Factories | Industrial Features |
| 9A | 223 | W | Electricity Sub Station | 446520 345976 | NG16 | Electrical Features | Infrastructure and Facilities |
| 10 | 224 | N | Electricity Sub Station | 446908 346300 | NG16 | Electrical Features | Infrastructure and Facilities |
| 11 | 232 | SE | Birchwood Price Tools | 447308 345385 | Unit 1 Birch Park, Park Lodge Road, Giltbrook, Nottingham, NG16 2AR | Workwear | Industrial Products |
| 12A | 241 | W | Depot | 446501 345993 | NG16 | Container and Storage | Transport, Storage and Delivery |
| 13 | 245 | W | Belwood Foods Ltd | 446496 346008 | 42-44, Brookhill Leys Road, Eastwood, Nottingham, NG16 3HZ | Catering and Non Specific Food Products | Foodstuffs |
| 14 | 246 | NE | Electricity Sub Station | 447493 345926 | NG16 | Electrical Features | Infrastructure and Facilities |

4.2 Petrol and Fuel Sites

Records of petrol or fuel sites within 500m of the study site:

0

Database searched and no data found.

4.3 National Grid High Voltage Underground Electricity Transmission Cables

This dataset identifies the high voltage electricity transmission lines running between generating power plants and electricity substations. The dataset does not include the electricity distribution network (smaller, lower voltage cables distributing power from substations to the local user network). This information has been extracted from databases held by National Grid and is provided for information only with no guarantee as to its completeness or accuracy. National Grid do not offer any warranty as to the accuracy of the available data and are excluded from any liability for any such inaccuracies or errors.

Records of National Grid high voltage underground electricity transmission cables within 500m of the study site:

0

Database searched and no data found.

4.4 National Grid High Pressure Gas Transmission Pipelines

This dataset identifies high-pressure, large diameter pipelines which carry gas between gas terminals, power stations, compressors and storage facilities. The dataset does not include the Local Transmission System (LTS) which supplies gas directly into homes and businesses. This information has been extracted from databases held by National Grid and is provided for information only with no guarantee as to its completeness or accuracy. National Grid do not offer any warranty as to the accuracy of the available data and are excluded from any liability for any such inaccuracies or errors.

Records of National Grid high pressure gas transmission pipelines within 500m of the study site:

0

Database searched and no data found.

5. Geology

5.1 Artificial Ground and Made Ground

The database has been searched on site, including a 50m buffer.

| Lex Code | Description | Rock Type |
|------------|-----------------|--------------------|
| WMGR-ARTDP | INFILLED GROUND | ARTIFICIAL DEPOSIT |
| WMGR-ARTDP | INFILLED GROUND | ARTIFICIAL DEPOSIT |
| WMGR-ARTDP | INFILLED GROUND | ARTIFICIAL DEPOSIT |

5.2 Superficial Ground and Drift Geology

Database searched and no data found.

The database has been searched on site, including a 50m buffer.

5.3 Bedrock and Solid Geology

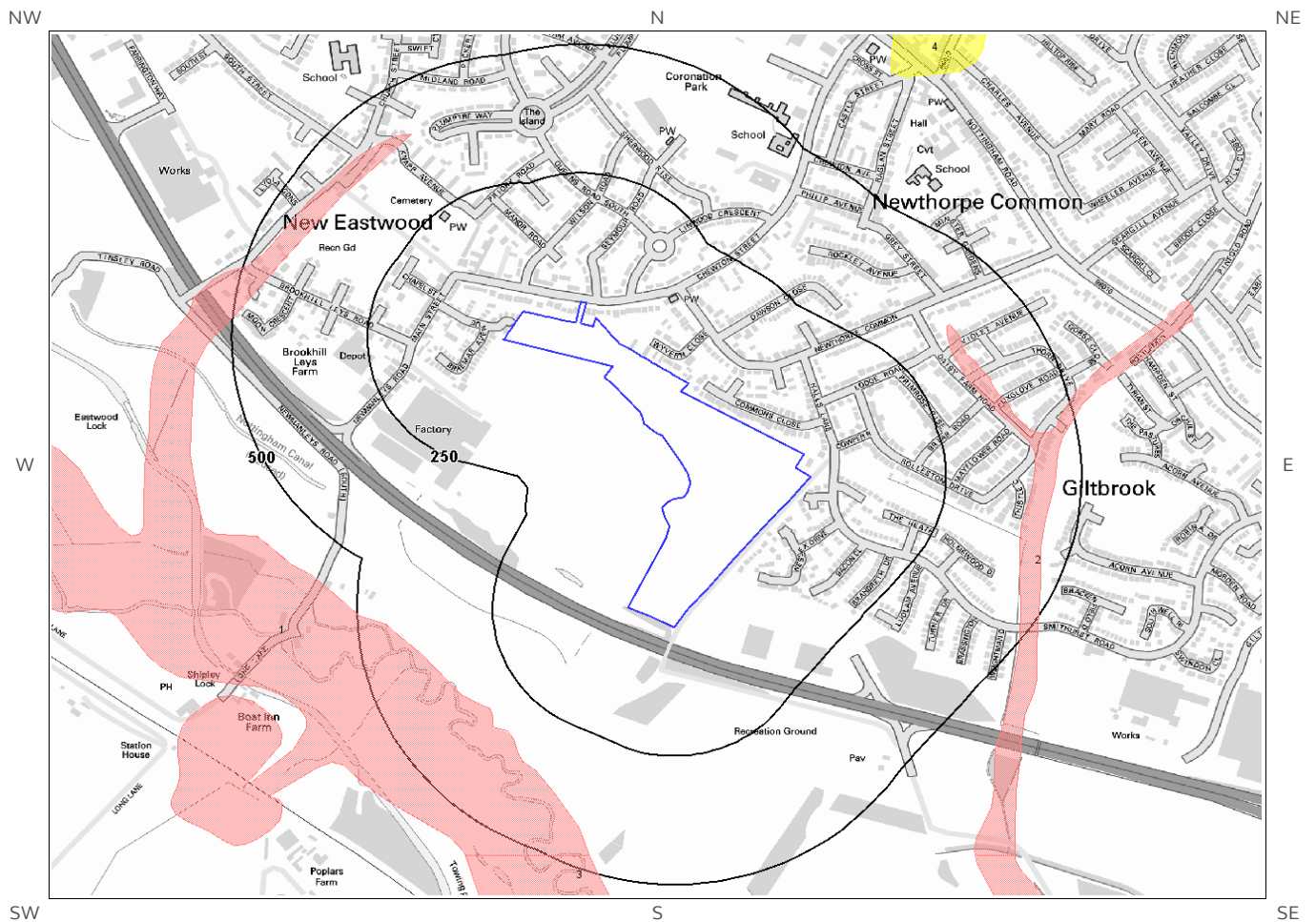
The database has been searched on site, including a 50m buffer.

| Lex Code | Description | Rock Type |
|-----------|--|-----------------------------------|
| PMCM-SDST | PENNINE MIDDLE COAL MEASURES FORMATION | SANDSTONE |
| PMCM-MDSS | PENNINE MIDDLE COAL MEASURES FORMATION | MUDSTONE, SILTSTONE AND SANDSTONE |
| PMCM-SDST | PENNINE MIDDLE COAL MEASURES FORMATION | SANDSTONE |
| PMCM-MDSS | PENNINE MIDDLE COAL MEASURES FORMATION | MUDSTONE, SILTSTONE AND SANDSTONE |
| PMCM-SDST | PENNINE MIDDLE COAL MEASURES FORMATION | SANDSTONE |
| PMCM-MDSS | PENNINE MIDDLE COAL MEASURES FORMATION | MUDSTONE, SILTSTONE AND SANDSTONE |
| PMCM-MDSS | PENNINE MIDDLE COAL MEASURES FORMATION | MUDSTONE, SILTSTONE AND SANDSTONE |
| PLCM-MDSS | PENNINE LOWER COAL MEASURES FORMATION | MUDSTONE, SILTSTONE AND SANDSTONE |

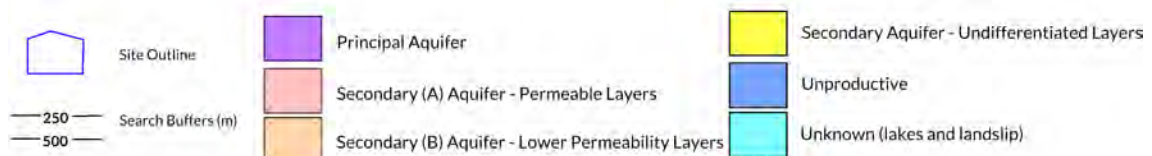
(Derived from the BGS 1:50,000 Digital Geological Map of Great Britain)

6 Hydrogeology and Hydrology

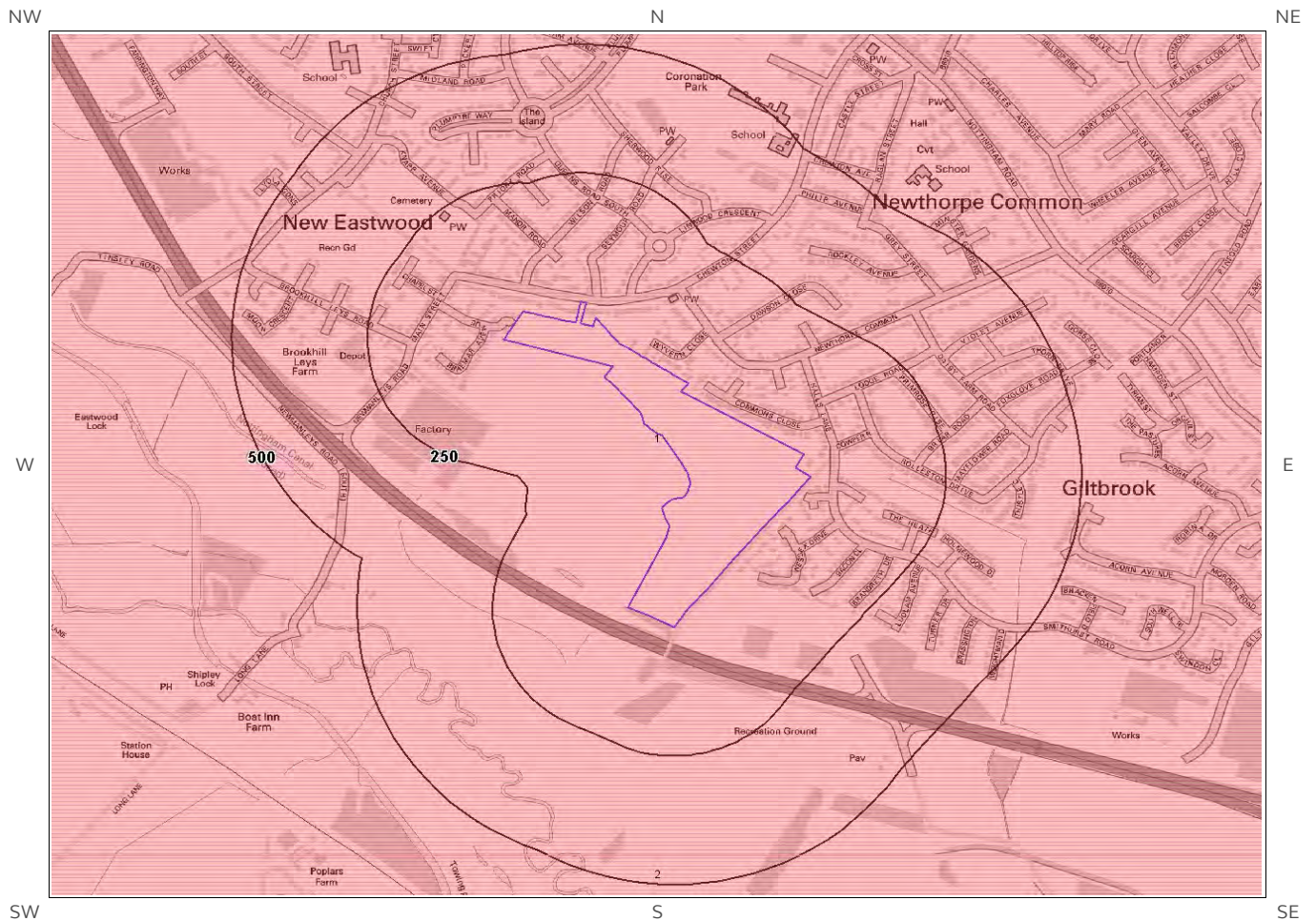
6a. Aquifer Within Superficial Geology



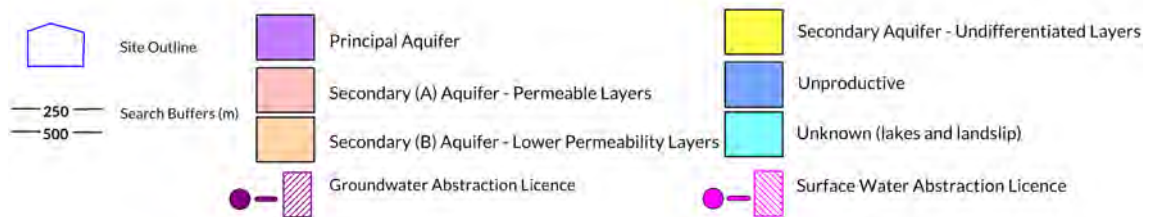
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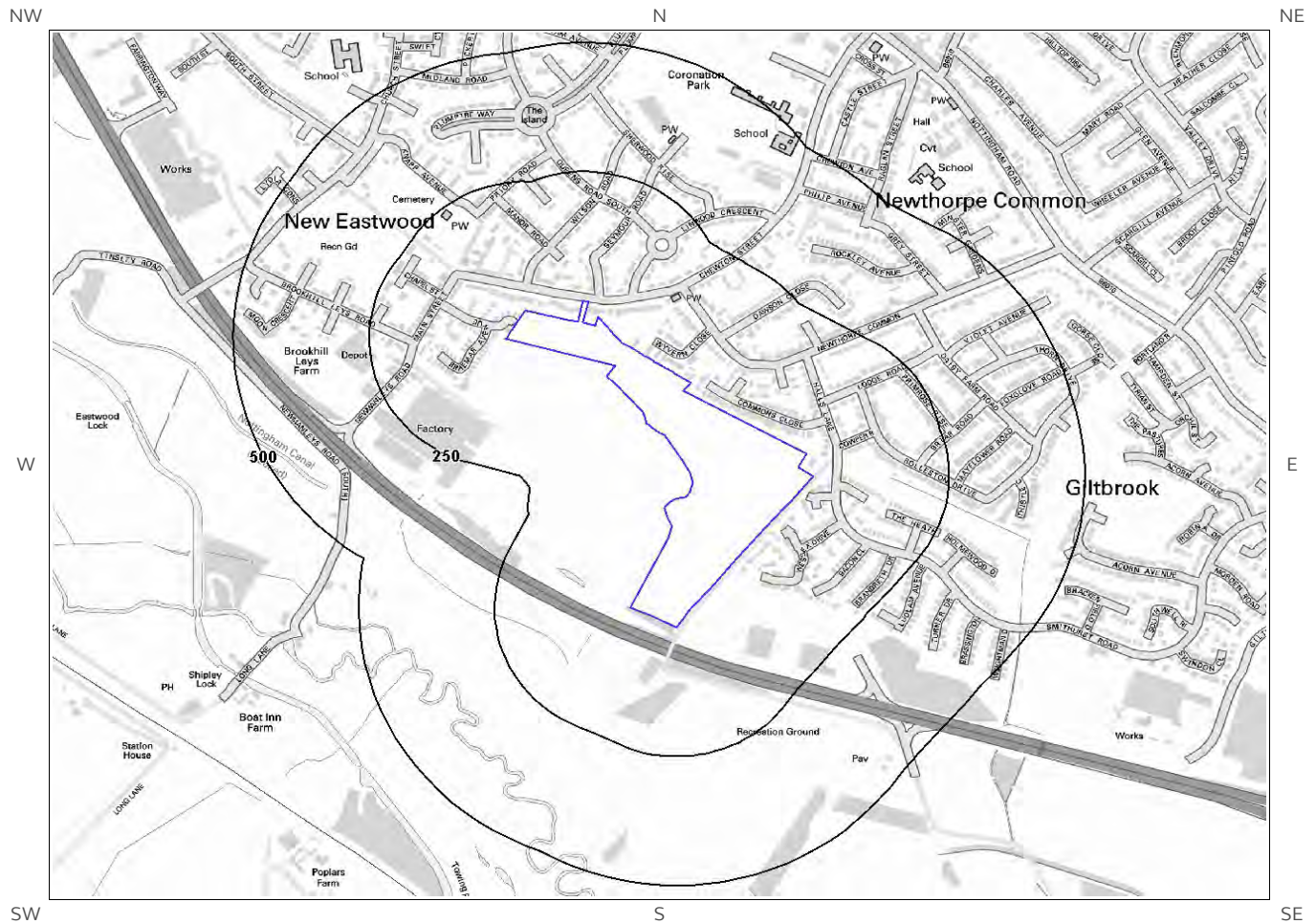
6b. Aquifer Within Bedrock Geology and Abstraction Licenses



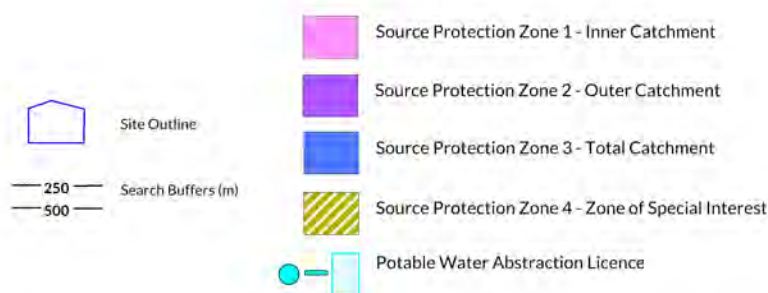
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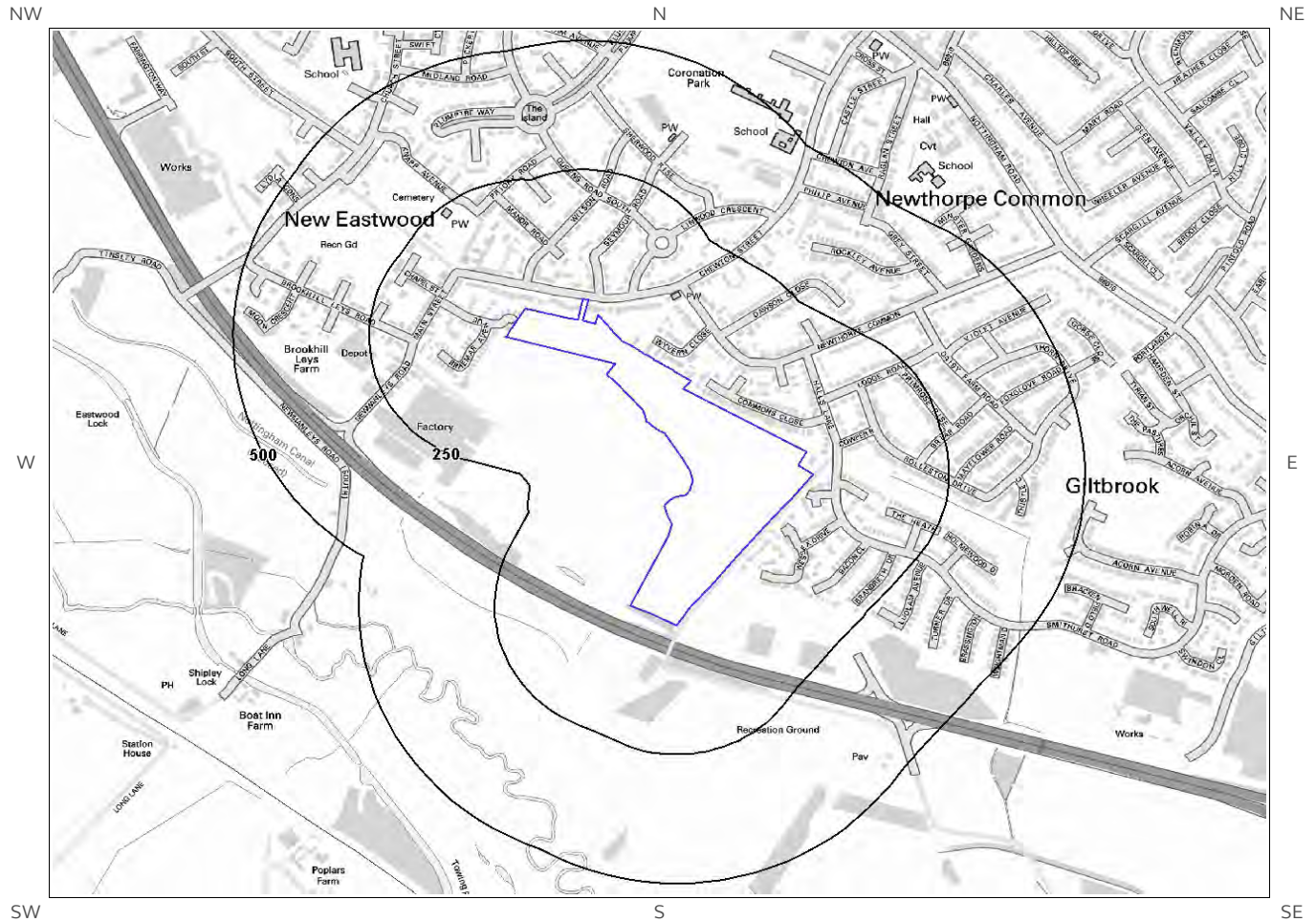
6c. Hydrogeology – Source Protection Zones and Potable Water Abstraction Licenses



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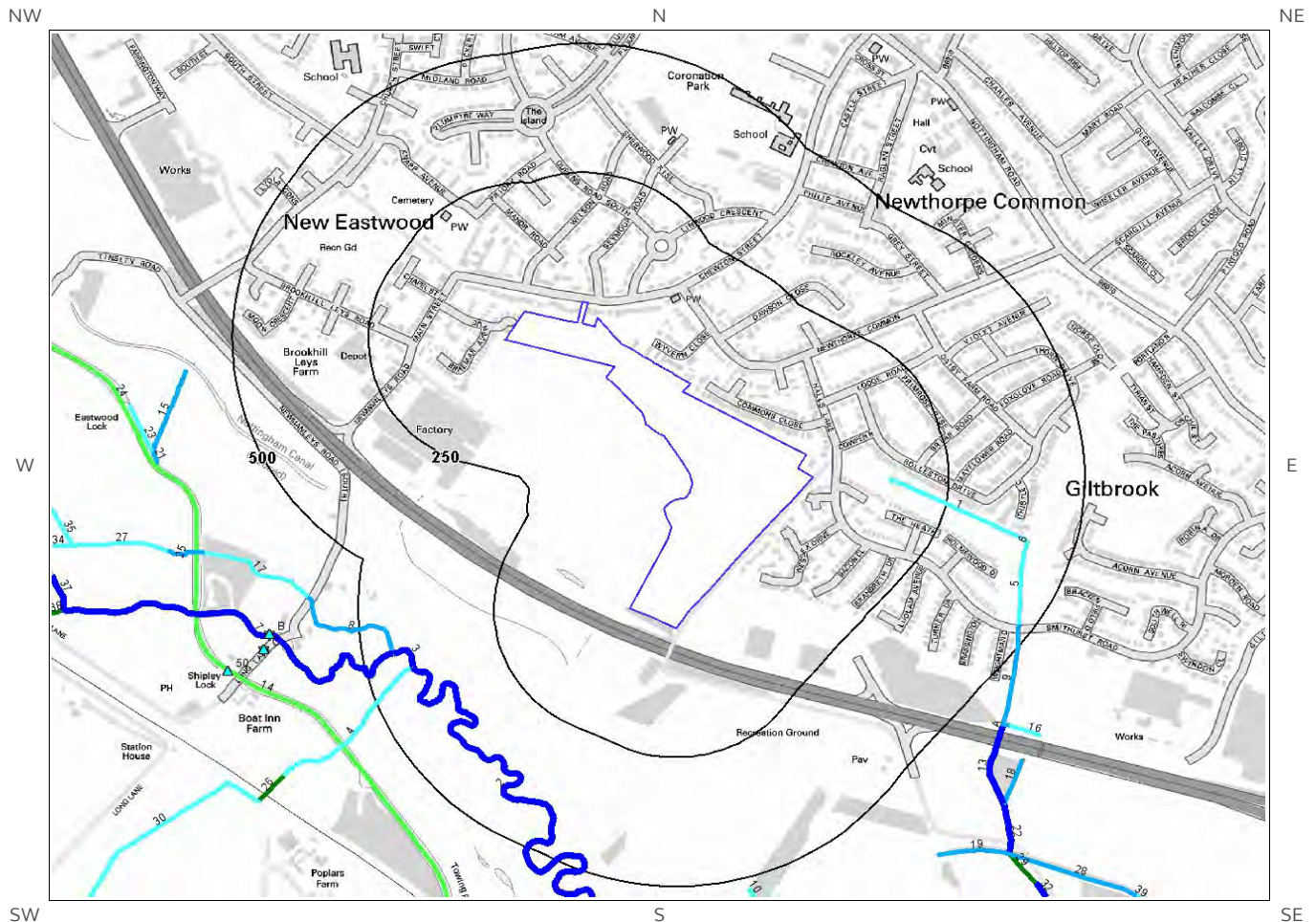
6d. Hydrogeology – Source Protection Zones within confined aquifer



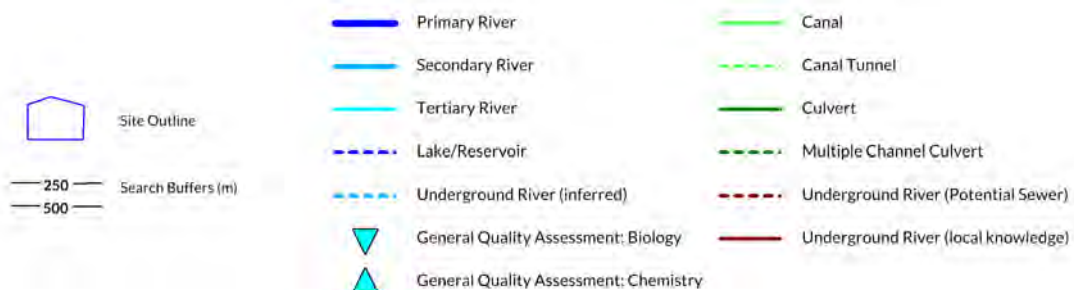
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6e. Hydrology – Detailed River Network and River Quality



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6. Hydrogeology and Hydrology

6.1 Aquifer within Superficial Deposits

Records of strata classification within the superficial geology at or in proximity to the property Yes

From 1 April 2010, the Environment Agency/Natural Resources Wales's Groundwater Protection Policy has been using aquifer designations consistent with the Water Framework Directive. For further details on the designation and interpretation of this information, please refer to the Groundsure Enviro Insight User Guide.

The following aquifer records are shown on the Aquifer within Superficial Geology Map (6a):

| ID | Distance (m) | Direction | Designation | Description |
|----|--------------|-----------|-------------|--|
| 1 | 322 | SW | Secondary A | Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers |
| 2 | 334 | NE | Secondary A | Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers |
| 3 | 470 | S | Secondary A | Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers |

6.2 Aquifer within Bedrock Deposits

Records of strata classification within the bedrock geology at or in proximity to the property Yes

From 1 April 2010, the Environment Agency/Natural Resources Wales's Groundwater Protection Policy has been using aquifer designations consistent with the Water Framework Directive. For further details on the designation and interpretation of this information, please refer to the Groundsure Enviro Insight User Guide.

The following aquifer records are shown on the Aquifer within Bedrock Geology Map (6b):

| ID | Distance (m) | Direction | Designation | Description |
|----|--------------|-----------|-------------|--|
| 1 | 0 | On Site | Secondary A | Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers |
| 2 | 443 | S | Secondary A | Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers |

6.3 Groundwater Abstraction Licences

Groundwater Abstraction Licences within 2000m of the study site

None identified

Database searched and no data found.

6.4 Surface Water Abstraction Licences

Surface Water Abstraction Licences within 2000m of the study site

Identified

The following Surface Water Abstraction Licences records are represented as points, lines and regions on the Aquifer within Bedrock Geology Map (6b):

| ID | Distance (m) | Direction | NGR | Details |
|-----------|--------------|-----------|------------------|---|
| Not shown | 1513 | S | 447060 343930 | Status: Historical Licence No: 03/28/61/0062 Details: General Washing/Process Washing Direct Source: Surface Water Midlands Region Point: Bennerley Coal Disposal Point - River Erewash Data Type: Point Name: R J B MINING (UK) LTD Annual Volume (m³): - Max Daily Volume (m³): - Application No: - Original Start Date: 17/10/1984 Expiry Date: - Issue No: 100 Version Start Date: 31/12/1994 Version End Date: |
| Not shown | 1513 | S | 447060 343930 | Status: Historical Licence No: 03/28/61/0062 Details: Dust suppression Direct Source: Surface Water Midlands Region Point: Bennerley Coal Disposal Point - River Erewash Data Type: Point Name: R J B MINING (UK) LTD Annual Volume (m³): - Max Daily Volume (m³): - Application No: - Original Start Date: 17/10/1984 Expiry Date: - Issue No: 100 Version Start Date: 31/12/1994 Version End Date: |

6.5 Potable Water Abstraction Licences

Potable Water Abstraction Licences within 2000m of the study site

None identified

Database searched and no data found.

6.6 Source Protection Zones

Source Protection Zones within 500m of the study site

None identified

Database searched and no data found.

6.7 Source Protection Zones within Confined Aquifer

Source Protection Zones within the Confined Aquifer within 500m of the study site None identified

Historically, Source Protection Zone maps have been focused on regulation of activities which occur at or near the ground surface, such as prevention of point source pollution and bacterial contamination of water supplies. Sources in confined aquifers were often considered to be protected from these surface pressures due to the presence of a low permeability confining layer (e.g. glacial till, clay). The increased interest in subsurface activities such as onshore oil and gas exploration, ground source heating and cooling requires protection zones for confined sources to be marked on SPZ maps where this has not already been done.

Database searched and no data found.

6.8 Groundwater Vulnerability and Soil Leaching Potential

Environment Agency/Natural Resources Wales information on groundwater vulnerability and soil leaching potential within 500m of the study site Identified

| Distance (m) | Direction | Classification | Soil Vulnerability Category | Description |
|--------------|-----------|---------------------------------------|-----------------------------|---|
| 0 | On Site | Minor Aquifer/High Leaching Potential | HU | Soil information for urban areas and restored mineral workings. These soils are therefore assumed to be highly permeable in the absence of site-specific information. |
| 354 | SW | Minor Aquifer/High Leaching Potential | H1 | Soils which readily transmit liquid discharges because they are shallow or susceptible to rapid flow directly to rock, gravel or groundwater. |

6.9 River Quality

Environment Agency/Natural Resources Wales information on river quality within 1500m of the study site Identified

6.9.1 Biological Quality:

Biological Quality data describes water quality in terms of 83 groups of macroinvertebrates, some of which are pollution sensitive. The results are graded from A ('Very Good') to F ('Bad').

The following Biological Quality records are shown on the Hydrology Map (6e):

| ID | Distance (m) | Direction | NGR | River Quality Grade | Biological Quality Grade | | | | |
|-----------|--------------|-----------|------------------|---|--------------------------|------|------|------|------|
| | | | | | 2005 | 2006 | 2007 | 2008 | 2009 |
| 40B | 664 | W | 446310 345430 | River Name: Erewash Reach: Shipley Gate To A6096 Ilkeston End/Start of Stretch: Start of Stretch NGR | C | D | D | D | D |
| 41B | 664 | W | 446310 345430 | River Name: Erewash Reach: Conf. Bailey Bk To Shipley Gate End/Start of Stretch: End of Stretch NGR | C | C | C | C | D |
| 42C | 677 | W | 446300 345400 | River Name: Erewash Canal (erewash) Reach: Shipley Gate To Stanton Lock End/Start of Stretch: Start of Stretch NGR | B | A | A | A | A |
| 43C | 677 | W | 446300 345400 | River Name: Erewash Canal (erewash) Reach: Langley Mill Lock To Shipley Gate End/Start of Stretch: End of Stretch NGR | A | A | C | C | C |
| Not shown | 1089 | W | 445700 346320 | River Name: Bailey Brook Reach: Loscoe Lake Inlet To R. Erewash End/Start of Stretch: End of Stretch NGR | C | C | C | C | C |
| Not shown | 1152 | W | 445610 346220 | River Name: Erewash Reach: Conf. Bailey Bk To Shipley Gate End/Start of Stretch: Start of Stretch NGR | C | C | C | C | D |
| Not shown | 1442 | N | 446540 347480 | River Name: Nethergreen Brook Reach: Eastwood To Conf. With R. Erewash End/Start of Stretch: Start of Stretch NGR | D | D | D | D | C |

6.9.2 Chemical Quality:

Chemical quality data is based on the General Quality Assessment Headline Indicators scheme (GQAHl). In England, each chemical sample is measured for ammonia and dissolved oxygen. In Wales, the samples are measured for biological oxygen demand (BOD), ammonia and dissolved oxygen. The results are graded from A ('Very Good') to F ('Bad').

The following Chemical Quality records are shown on the Hydrology Map (6e):

Chemical Quality Grade

| ID | Distance (m) | Direction | NGR | River Quality Grade | 2005 | 2006 | 2007 | 2008 | 2009 |
|-----------|--------------|-----------|------------------|--|------|------|------|------|------|
| 47B | 664 | W | 446310 345430 | River Name: Erewash R Reach: Shipley Gate To A6096 Ilkeston End/Start of Stretch: Start of Stretch NGR | C | C | C | C | C |
| 48C | 677 | W | 446300 345400 | River Name: Erewash(grand Union)canal Reach: Shipley Gate To Stanton Lock End/Start of Stretch: Start of Stretch NGR | B | B | B | B | B |
| 49C | 677 | W | 446300 345400 | River Name: Erewash(grand Union)canal Reach: Langley Mill Lock To Shipley Gate End/Start of Stretch: End of Stretch NGR | C | C | B | B | B |
| 50 | 749 | W | 446233 345358 | River Name: Erewash(grand Union)canal Reach: Langley Mill Lock To Shipley Gate End/Start of Stretch: Sample Point NGR | C | C | B | B | B |
| Not shown | 1054 | SE | 447677 344591 | River Name: Gilt Bk Reach: Newthorpe Stw To Conf R Erewash End/Start of Stretch: Sample Point NGR | D | D | D | D | D |
| Not shown | 1065 | SE | 447800 344680 | River Name: Gilt Bk Reach: Newthorpe Stw To Conf R Erewash End/Start of Stretch: Start of Stretch NGR | D | D | D | D | D |
| Not shown | 1065 | SE | 447800 344680 | River Name: Gilt Bk Reach: Fb At Gilt Brook To Newthorpe Stw Of End/Start of Stretch: End of Stretch NGR | B | A | A | A | B |
| Not shown | 1089 | W | 445700 346320 | River Name: Bailey Bk Reach: Loscoe Lake Inlet To R Erewash End/Start of Stretch: End of Stretch NGR | B | B | B | B | B |
| Not shown | 1092 | SE | 447813 344655 | River Name: Gilt Bk Reach: Fb At Gilt Brook To Newthorpe Stw Of End/Start of Stretch: Sample Point NGR | B | A | A | A | B |
| Not shown | 1152 | W | 445610 346220 | River Name: Erewash R Reach: Trib From Jacksdale To Conf Bailey Bk End/Start of Stretch: End of Stretch NGR | B | A | C | C | C |
| Not shown | 1243 | S | 447050 344200 | River Name: Gilt Bk Reach: Newthorpe Stw To Conf R Erewash End/Start of Stretch: End of Stretch NGR | D | D | D | D | D |
| Not shown | 1326 | NW | 445551 346587 | River Name: Erewash R Reach: Trib From Jacksdale To Conf Bailey Bk End/Start of Stretch: Sample Point NGR | B | A | C | C | C |
| Not shown | 1442 | N | 446540 347480 | River Name: Nethergreen Bk Reach: Eastwood To Conf With R Erewash End/Start of Stretch: Start of Stretch NGR | D | D | D | C | C |

Chemical Quality Grade

| | | | | | | | | | |
|-----------|------|---|------------------|--|---|---|---|---|---|
| Not shown | 1460 | E | 448760 345890 | River Name: Gilt Bk Reach: Fb At Gilt Brook To Newthorpe Stw Of End/Start of Stretch: Start of Stretch NGR | B | A | A | A | B |
|-----------|------|---|------------------|--|---|---|---|---|---|

6.10 Detailed River Network

Detailed River Network entries within 500m of the study site

Identified

The following Detailed River Network records are represented on the Hydrology Map (6e):

| ID | Distance (m) | Direction | Details | |
|----|--------------|-----------|---|---|
| 1 | 139 | E | River Name: Drain Welsh River Name: - Alternative Name: - | River Type: Tertiary River Main River Status: Currently Undefined |
| 2 | 356 | SW | River Name: River Erewash Welsh River Name: - Alternative Name: - | River Type: Primary River Main River Status: Currently Undefined |
| 3 | 412 | W | River Name: River Erewash Welsh River Name: - Alternative Name: - | River Type: Primary River Main River Status: Currently Undefined |
| 4 | 413 | W | River Name: - Welsh River Name: - Alternative Name: - | River Type: Tertiary River Main River Status: Currently Undefined |
| 5 | 414 | E | River Name: Drain Welsh River Name: - Alternative Name: - | River Type: Tertiary River Main River Status: Currently Undefined |
| 6 | 415 | E | River Name: - Welsh River Name: - Alternative Name: - | River Type: Tertiary River Main River Status: Currently Undefined |
| 7 | 443 | W | River Name: River Erewash Welsh River Name: - Alternative Name: - | River Type: Primary River Main River Status: Currently Undefined |
| 8 | 443 | W | River Name: - Welsh River Name: - Alternative Name: - | River Type: Secondary River Main River Status: Currently Undefined |
| 9 | 474 | SE | River Name: Drain Welsh River Name: - Alternative Name: - | River Type: Secondary River Main River Status: Currently Undefined |

6.11 Surface Water Features

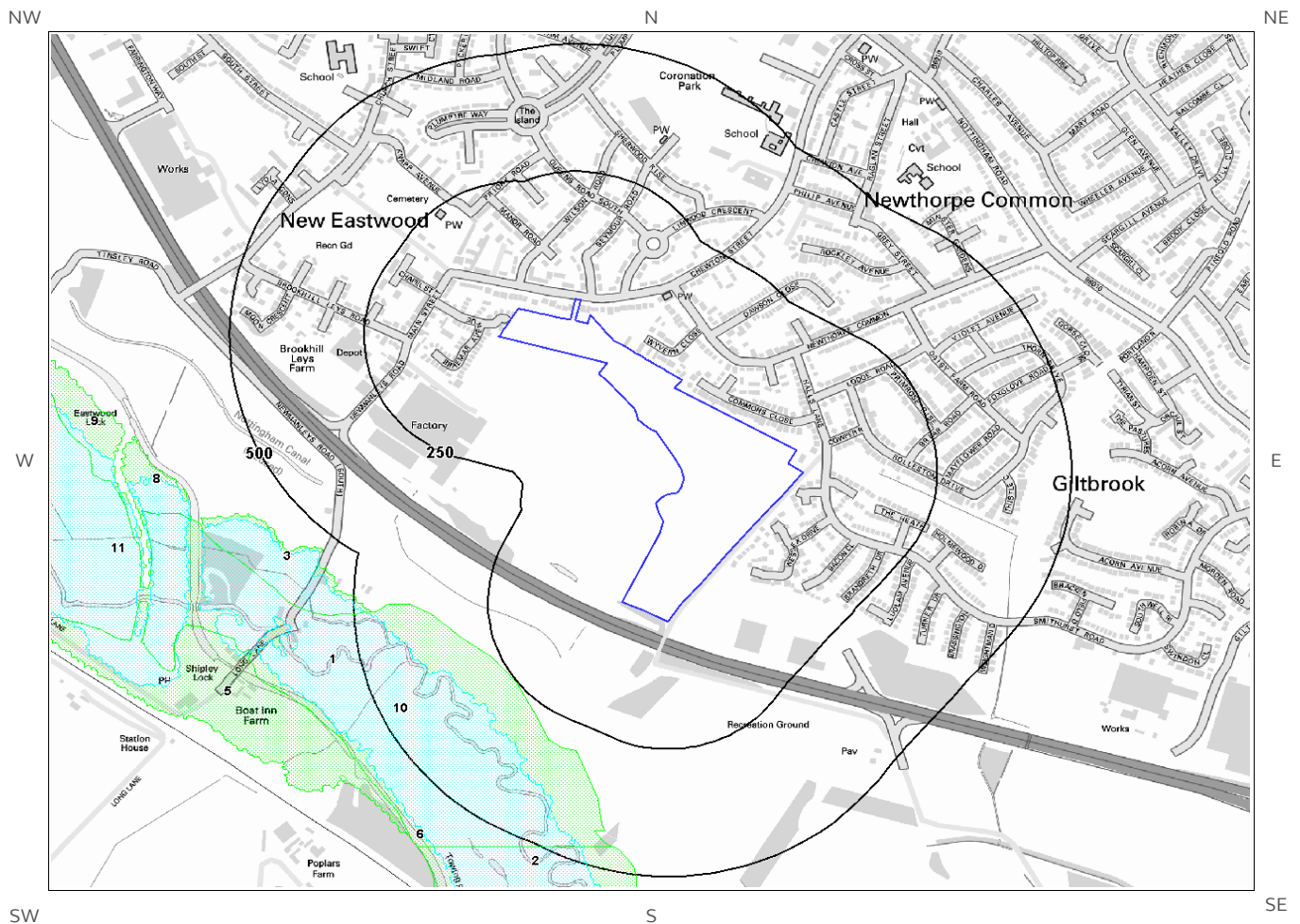
Surface water features within 250m of the study site

Identified

The following surface water records are not represented on mapping:

| Distance (m) | Direction |
|--------------|-----------|
| 84 | SW |
| 122 | SW |
| 139 | E |
| 153 | SW |

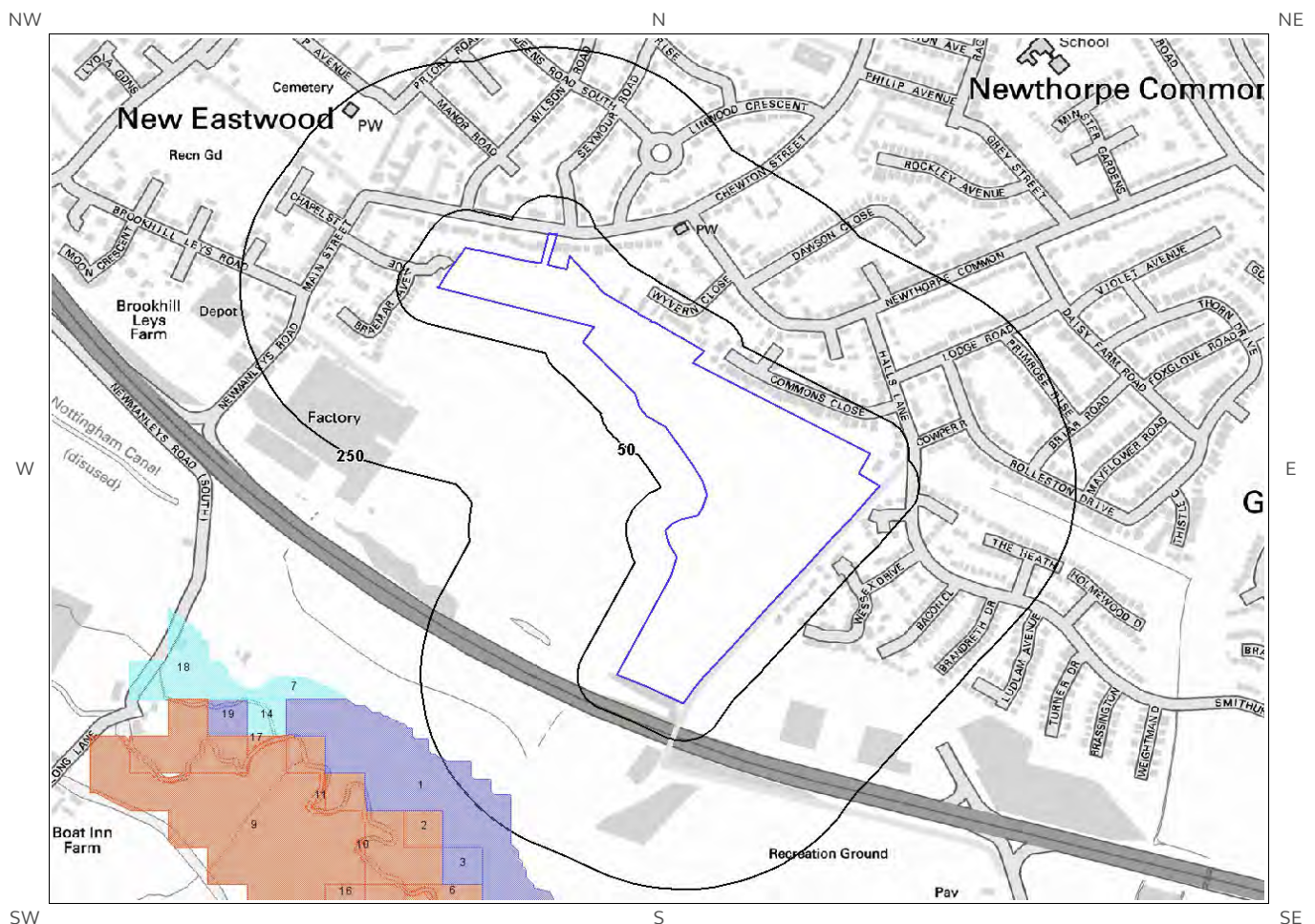
7a. Environment Agency/Natural Resources Wales Flood Map for Planning (from rivers and the sea)



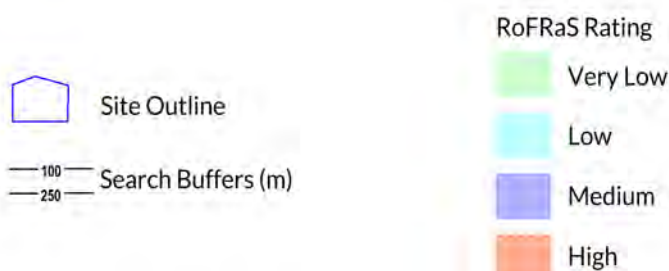
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7b. Environment Agency/Natural Resources Wales Risk of Flooding from Rivers and the Sea (RoFRaS) Map



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7 Flooding

7.1 River and Coastal Zone 2 Flooding

Environment Agency/Natural Resources Wales Zone 2 floodplain within 250m None identified

Environment Agency/Natural Resources Wales Zone 2 floodplains estimate the annual probability of flooding as between 1 in 1000 (0.1%) and 1 in 100 (1%) from rivers and between 1 in 1000 (0.1%) and 1 in 200 (0.5%) from the sea. Any relevant data is represented on Map 7a – Flood Map for Planning:

Database searched and no data found.

7.2 River and Coastal Zone 3 Flooding

Environment Agency/Natural Resources Wales Zone 3 floodplain within 250m None identified

Zone 3 shows the extent of a river flood with a 1 in 100 (1%) or greater chance of occurring in any year or a sea flood with a 1 in 200 (0.5%) or greater chance of occurring in any year. Any relevant data is represented on Map 7a – Flood Map for Planning.

Database searched and no data found.

7.3 Risk of Flooding from Rivers and the Sea (RoFRaS) Flood Rating

Highest risk of flooding onsite Very Low

The Environment Agency/Natural Resources Wales RoFRaS database provides an indication of river and coastal flood risk at a national level on a 50m grid with the flood rating at the centre of the grid calculated and given above. The data considers the probability that the flood defences will overtop or breach by considering their location, type, condition and standard of protection.

RoFRaS data for the study site indicates the property is in an area with a Very Low (less than 1 in 1000) chance of flooding in any given year.

7.4 Flood Defences

Flood Defences within 250m of the study site None identified
Database searched and no data found.

7.5 Areas benefiting from Flood Defences

Areas benefiting from Flood Defences within 250m of the study site None identified

7.6 Areas benefiting from Flood Storage

Areas used for Flood Storage within 250m of the study site

None identified

7.7 Groundwater Flooding Susceptibility Areas

7.7.1 British Geological Survey groundwater flooding susceptibility areas within 50m of the boundary of the study site

Identified

Clearwater Flooding or Superficial Deposits Flooding

Clearwater Flooding

Notes: Groundwater flooding may either be associated with shallow unconsolidated sedimentary aquifers which overlie unproductive aquifers (Superficial Deposits Flooding), or with unconfined aquifers (Clearwater Flooding).

7.7.2 Highest susceptibility to groundwater flooding in the search area based on the underlying geological conditions

Limited potential

Where limited potential for groundwater flooding to occur is indicated, this means that although given the geological conditions there may be a groundwater flooding hazard, unless other relevant information, e.g. records of previous flooding, suggests groundwater flooding has occurred before in this area, you need take no further action in relation to groundwater flooding hazard.

7.8 Groundwater Flooding Confidence Areas

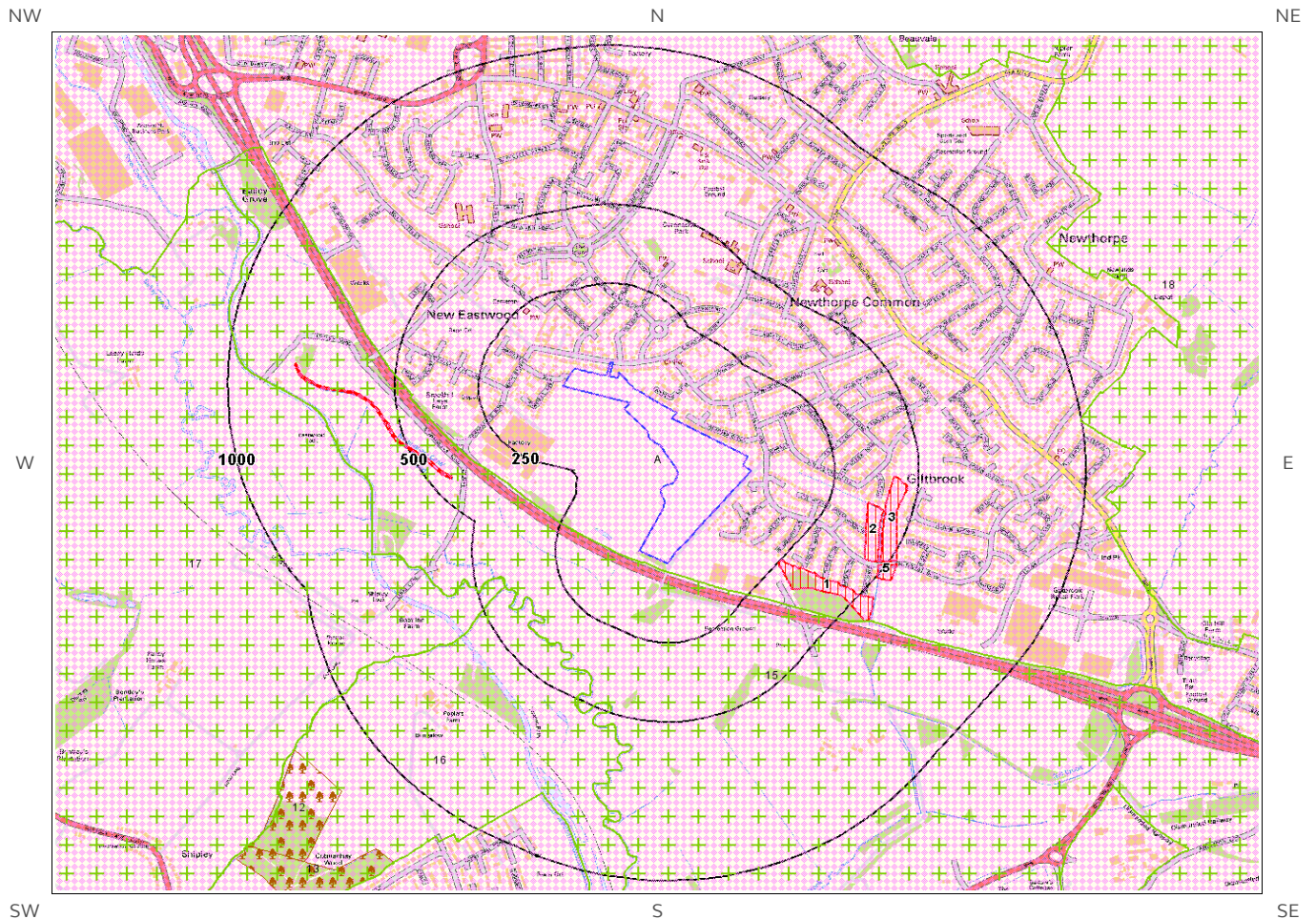
British Geological Survey confidence rating in this result

Low

Notes: Groundwater flooding is defined as the emergence of groundwater at the ground surface or the rising of groundwater into man-made ground under conditions where the normal range of groundwater levels is exceeded.

The confidence rating is on a threefold scale - Low, Moderate and High. This provides a relative indication of the BGS confidence in the accuracy of the susceptibility result for groundwater flooding. This is based on the amount and precision of the information used in the assessment. In areas with a relatively lower level of confidence the susceptibility result should be treated with more caution. In other areas with higher levels of confidence the susceptibility result can be used with more confidence.

8. Designated Environmentally Sensitive Sites Map



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8. Designated Environmentally Sensitive Sites

Presence of Designated Environmentally Sensitive Sites within 2000m of the study site Identified

8.1 Records of Sites of Special Scientific Interest (SSSI) within 2000m of the study site:

0

Database searched and no data found.

8.2 Records of National Nature Reserves (NNR) within 2000m of the study site:

0

Database searched and no data found.

8.3 Records of Special Areas of Conservation (SAC) within 2000m of the study site:

0

Database searched and no data found.

8.4 Records of Special Protection Areas (SPA) within 2000m of the study site:

0

Database searched and no data found.

8.5 Records of Ramsar sites within 2000m of the study site:

0

Database searched and no data found.

8.6 Records of Ancient Woodland within 2000m of the study site:

3

The following records of Designated Ancient Woodland provided by Natural England/Natural Resources Wales are represented as polygons on the Designated Environmentally Sensitive Sites Map:

| ID | Distance (m) | Direction | Ancient Woodland Name | Data Source |
|-----------|--------------|-----------|-----------------------|-----------------------------------|
| 12 | 1168 | SW | UNKNOWN | Ancient Replanted Woodland |
| 13 | 1222 | SW | UNKNOWN | Ancient and Semi-Natural Woodland |
| Not shown | 1960 | SW | UNKNOWN | Ancient and Semi-Natural Woodland |

8.7 Records of Local Nature Reserves (LNR) within 2000m of the study site:

8

The following Local Nature Reserve (LNR) records provided by Natural England/Natural Resources Wales are represented as polygons on the Designated Environmentally Sensitive Sites Map:

| ID | Distance (m) | Direction | LNR Name | Data Source |
|-----------|--------------|-----------|--------------------|-----------------|
| 1 | 251 | SE | Smithurst Meadows | Natural England |
| 2 | 361 | E | Smithurst Meadows | Natural England |
| 3 | 414 | E | Smithurst Meadows | Natural England |
| 4 | 436 | SW | Nottingham Canal | Natural England |
| 5 | 483 | SE | Smithurst Meadows | Natural England |
| Not shown | 1300 | N | Hall Park Eastwood | Natural England |
| Not shown | 1479 | S | Nottingham Canal | Natural England |
| Not shown | 1751 | NE | Colliers Wood | Natural England |

8.8 Records of World Heritage Sites within 2000m of the study site:

0

Database searched and no data found.

8.9 Records of Environmentally Sensitive Areas within 2000m of the study site:

0

Database searched and no data found.

8.10 Records of Areas of Outstanding Natural Beauty (AONB) within 2000m of the study site:

0

Database searched and no data found.

8.11 Records of National Parks (NP) within 2000m of the study site:

0

Database searched and no data found.

8.12 Records of Nitrate Sensitive Areas within 2000m of the study site:

0

Database searched and no data found.

8.13 Records of Nitrate Vulnerable Zones within 2000m of the study site:

3

The following Nitrate Vulnerable Zone records produced by DEFRA are represented as polygons on the Designated Environmentally Sensitive Sites Map:

| ID | Distance (m) | Direction | NVZ Name | Data Source |
|-----------|--------------|-----------|----------|-------------|
| 9A | 0 | On Site | New | DEFRA |
| 10A | 0 | On Site | Existing | DEFRA |
| Not shown | 1616 | E | Existing | DEFRA |

8.14 Records of Green Belt land within 2000m of the study site:

6

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| ID | Distance | Direction | Green Belt Name | Local Authority Name |
|-----------|----------|-----------|--------------------------------|---------------------------|
| 15 | 25 | S | Derby and Nottingham Greenbelt | Broxtowe District (B) |
| 16 | 356 | SW | Derby and Nottingham Greenbelt | Erewash District (B) |
| 17 | 416 | W | Derby and Nottingham Greenbelt | Amber Valley District (B) |
| 18 | 995 | E | Derby and Nottingham Greenbelt | Broxtowe District (B) |
| Not shown | 1808 | NW | Derby and Nottingham Greenbelt | Amber Valley District (B) |

Not
shown

1879

SW

Derby and Nottingham Greenbelt

Erewash District (B)

9. Natural Hazards Findings

9.1 Detailed BGS GeoSure Data

BGS GeoSure Data has been searched to 50m. The data is included in tabular format. If you require further information on geology and ground stability, please obtain a **Groundsure Geo Insight**, available from our **website**. The following information has been found:

9.1.1 Shrink Swell

Maximum Shrink-Swell** hazard rating identified on the study site Very Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

| Hazard |
|--|
| Ground conditions predominantly low plasticity. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with shrink-swell clays. |

9.1.2 Landslides

Maximum Landslide* hazard rating identified on the study site Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

| Hazard |
|--|
| Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property no significant increase in insurance risk due to natural slope instability problems. |

9.1.3 Soluble Rocks

Maximum Soluble Rocks* hazard rating identified on the study site Negligible

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

| Hazard |
|---|
| Soluble rocks are present, but unlikely to cause problems except under exceptional conditions. No special actions required to avoid problems due to soluble rocks. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with soluble rocks. |

* This indicates an automatically generated 50m buffer and site.

9.1.4 Compressible Ground

Maximum Compressible Ground* hazard rating identified on the study site

Negligible

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

| Hazard |
|--|
| No indicators for compressible deposits identified. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits. |

9.1.5 Collapsible Rocks

Maximum Collapsible Rocks* hazard rating identified on the study site

Very Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

| Hazard |
|---|
| Deposits with potential to collapse when loaded and saturated are unlikely to be present. No special ground investigation required or increased construction costs or increased financial risk due to potential problems with collapsible deposits. |

9.1.6 Running Sand

Maximum Running Sand** hazard rating identified on the study site

Negligible

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

| Hazard |
|---|
| No indicators for running sand identified. No special actions required to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand. |

* This indicates an automatically generated 50m buffer and site.

9.2 Radon

9.2.1 Radon Affected Areas

Radon Affected Area assessment: The site is in a Radon Affected Area, as between 1 and 3% of properties are above the Action Level.

The radon data in this report is supplied by the BGS/Public Health England and is the definitive map of Radon Affected Areas in Great Britain and Northern Ireland. The dataset was created using long-term radon measurements in over 479,000 homes across Great Britain and 23,000 homes across Northern Ireland, combined with geological data. The dataset is considered accurate to 50m to allow for the margin of error in geological lines, and the findings of this report supercede any answer given in the less accurate Indicative Atlas of Radon in Great Britain, which simplifies the data to give the highest risk within any given 1km grid square. As such, the radon atlas is considered indicative, whereas the data given in this report is considered definitive.

9.2.2 Radon Protection

Radon protection measures requirements for new properties or extensions to existing ones as described in publication BR211 by the Building Research Establishment: No radon protective measures are necessary.

10. Mining

10.1 Coal Mining

Coal mining areas within 75m of the study site

Identified

The following coal mining information provided by the Coal Authority is not represented on Mapping:

| Distance (m) | Direction | Details |
|--------------|-----------|---|
| 0 | On Site | The study site is located within the specified search distance of an identified mining area. Further details concerning this can be obtained from the Coal Authority Helpline on 0845 762 6848. |

10.2 Non-Coal Mining

Non-Coal Mining areas within 50m of the study site boundary

Identified

The following non-coal mining information is provided by the BGS:

| Distance (m) | Direction | Name | Commodity | Assessment of likelihood |
|--------------|-----------|---------------|-------------------|--|
| 0.0 | On Site | Not available | Iron Ore (Bedded) | Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered |

Past underground mine workings may occur. The rock types present in these areas are such that small mineral veins may be present on which it is possible that small scale mining has been undertaken and/or it is possible that limited underground extraction of other materials may have occurred. All such occurrences are likely to be of minor localised extent and infrequent. It should be noted, however, that there is always the possibility of the existence of other sub-surface excavations, such as wells, cess pits, follies, air raid shelters/bunkers and other military structures etc. that could affect surface ground stability but which are outside the scope of this dataset. However, if in a coalfield area you should still consider a Coal Authority mining search for the area of interest.

10.3 Brine Affected Areas

Brine affected areas within 75m of the study site
Guidance: No Guidance Required.

None identified

Contact Details

Groundsure Helpline
Telephone: 08444 159 000
info@groundsure.com

British Geological Survey Enquiries
Kingsley Dunham Centre
Keyworth, Nottingham NG12 5GG
Tel: 0115 936 3143.
Fax: 0115 936 3276.
Email:
Web: www.bgs.ac.uk

BGS Geological Hazards Reports and general geological enquiries:
enquiries@bgs.ac.uk

Environment Agency
National Customer Contact Centre, PO Box 544
Rotherham, S60 1BY
Tel: 03708 506 506
Web: www.environment-agency.gov.uk
Email: enquiries@environment-agency.gov.uk

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133-155 Waterloo Road, London, SE1 8UG
www.gov.uk/phe
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Main switchboard: 020 7654 8000

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<https://www.groundsure.com/terms-and-conditions-march-2018>

Kiwa CMT Testing

UNIT 5 C M T TESTING LTD, PRIME PARK WAY,
DERBY, DE1 3QB

Groundsure
Reference:

GS-4810343

Your Reference: 57629_Eastwood

Report Date

15 Mar 2018

Report Delivery
Method:

Email - pdf

Geo Insight

Address: 77, CHEWTON STREET, EASTWOOD, NG16 3JQ

Dear Sir/ Madam,

Thank you for placing your order with Groundsure. Please find enclosed the **Groundsure Geo Insight** as requested.

If you need any further assistance, please do not hesitate to contact our helpline on 08444 159000 quoting the above Groundsure reference number.

Yours faithfully,



Managing Director
Groundsure Limited

Enc.
Groundsure Geo Insight

Address: 77, CHEWTON STREET, EASTWOOD, NG16 3JQ
Date: 15 Mar 2018
Reference: GS-4810343
Client: Kiwa CMT Testing



Aerial Photograph Capture date: 13-Apr-2016
Grid Reference: 447058,345782
Site Size: 9.61ha

Contents Page

| | |
|---|----|
| Contents Page..... | 3 |
| Overview of Findings..... | 5 |
| 1:10,000 Scale Availability..... | 8 |
| Availability of 1:10,000 Scale Geology Mapping..... | 9 |
| 1 Geology (1:10,000 scale)..... | 10 |
| 1.1 Artificial Ground map (1:10,000 scale)..... | 10 |
| 1. Geology 1:10,000 scale..... | 11 |
| 1.1 Artificial Ground..... | 11 |
| 1.2 Superficial Deposits and Landslips map (1:10,000 scale)..... | 12 |
| 1.2 Superficial Deposits and Landslips..... | 13 |
| 1.2.1 Superficial Deposits/ Drift Geology..... | 13 |
| 1.2.2 Landslip..... | 13 |
| 1.3 Bedrock and linear features map (1:10,000 scale)..... | 14 |
| 1.3 Bedrock and linear features..... | 15 |
| 1.3.1 Bedrock/ Solid Geology..... | 15 |
| 1.3.2 Linear features..... | 16 |
| 2 Geology 1:50,000 Scale..... | 18 |
| 2.1 Artificial Ground map..... | 18 |
| 2. Geology 1:50,000 scale..... | 19 |
| 2.1 Artificial Ground..... | 19 |
| 2.1.1 Artificial/ Made Ground | 19 |
| 2.1.2 Permeability of Artificial Ground..... | 19 |
| 2.2 Superficial Deposits and Landslips map (1:50,000 scale)..... | 20 |
| 2.2 Superficial Deposits and Landslips..... | 21 |
| 2.2.1 Superficial Deposits/ Drift Geology..... | 21 |
| 2.2.2 Permeability of Superficial Ground | 21 |
| 2.2.3 Landslip..... | 21 |
| 2.2.4 Landslip Permeability..... | 21 |
| 2.3 Bedrock and linear features map (1:50,000 scale)..... | 22 |
| 2.3 Bedrock, Solid Geology & linear features..... | 23 |
| 2.3.1 Bedrock/Solid Geology..... | 23 |
| 2.3.2 Permeability of Bedrock Ground..... | 24 |
| 2.3.3 Linear features..... | 24 |
| 3 Radon Data..... | 26 |
| 3.1 Radon Affected Areas..... | 26 |
| 3.2 Radon Protection..... | 26 |
| 4 Ground Workings map..... | 27 |
| 4 Ground Workings..... | 28 |
| 4.1 Historical Surface Ground Working Features derived from Historical Mapping..... | 28 |
| 4.2 Historical Underground Working Features derived from Historical Mapping..... | 31 |
| 4.3 Current Ground Workings..... | 33 |
| 5 Mining, Extraction & Natural Cavities..... | 38 |
| 5.1 Historical Mining..... | 38 |
| 5.2 Coal Mining..... | 40 |
| 5.3 Johnson Poole and Bloomer..... | 40 |
| 5.4 Non-Coal Mining..... | 41 |
| 5.5 Non-Coal Mining Cavities..... | 41 |
| 5.6 Natural Cavities..... | 41 |
| 5.7 Brine Extraction..... | 41 |
| 5.8 Gypsum Extraction..... | 42 |
| 5.9 Tin Mining..... | 42 |
| 5.10 Clay Mining..... | 42 |
| 6 Natural Ground Subsidence..... | 43 |
| 6.1 Shrink-Swell Clay map..... | 43 |
| 6.2 Landslides map..... | 44 |
| 6.3 Ground Dissolution of Soluble Rocks map..... | 45 |
| 6.4 Compressible Deposits map..... | 46 |
| 6.5 Collapsible Deposits map..... | 47 |
| 6.6 Running Sand map..... | 48 |

| | |
|--|----|
| 6 Natural Ground Subsidence..... | 49 |
| 6.1 Shrink-Swell Clays..... | 49 |
| 6.2 Landslides..... | 50 |
| 6.3 Ground Dissolution of Soluble Rocks..... | 50 |
| 6.4 Compressible Deposits..... | 50 |
| 6.5 Collapsible Deposits..... | 51 |
| 6.6 Running Sands..... | 51 |
| 7 Borehole Records..... | 53 |
| 8 Estimated Background Soil Chemistry..... | 55 |
| 9 Railways and Tunnels map..... | 56 |
| 9 Railways and Tunnels..... | 57 |
| 9.1 Tunnels | 57 |
| 9.2 Historical Railway and Tunnel Features | 57 |
| 9.3 Historical Railways..... | 58 |
| 9.4 Active Railways..... | 59 |
| 9.5 Railway Projects..... | 59 |

Overview of Findings

The Groundsure Geo Insight provides high quality geo-environmental information that allows geo-environmental professionals and their clients to make informed decisions and be forewarned of potential ground instability problems that may affect the ground investigation, foundation design and possibly remediation options that could lead to possible additional costs.

The report is based on the BGS 1:50,000 and 1:10,000 Digital Geological Map of Great Britain, BGS Geosure data; BRITPITS database; Non-coal mining data and Borehole Records, Coal Authority data including brine extraction areas, PBA non-coal mining and natural cavities database, Johnson Poole and Bloomer mining data and Groundsure's unique database including historical surface ground and underground workings.

For further details on each dataset, please refer to each individual section in the report as listed. Where the database has been searched a numerical result will be recorded. Where the database has not been searched '-' will be recorded.

Section 1: Geology 1:10,000 Scale

| | | |
|--|---|-----|
| 1.1 Artificial Ground | 1.1 Is there any Artificial Ground/ Made Ground present beneath the study site at 1:10,000 scale? | Yes |
| 1.2 Superficial Geology and Landslips | 1.2.1 Is there any Superficial Ground/Drift Geology present beneath the study site at 1:10,000 scale?* | No |
| | 1.2.2 Are there any records of landslide within 500m of the study site boundary at 1:10,000 scale? | No |
| 1.3 Bedrock, Solid Geology and linear features | 1.3.1 For records of Bedrock and Solid Geology beneath the study site* see the detailed findings section. | |
| | 1.3.2 Are there any records of linear features within 500m of the study site boundary at 1:10,000 scale? | Yes |

Section 2: Geology 1:50,000 Scale

| | | |
|---------------------------------------|---|-----|
| 2.1 Artificial Ground | 2.1.1 Is there any Artificial Ground/ Made Ground present beneath the study site? | Yes |
| | 2.1.2 Are there any records relating to permeability of artificial ground within the study site*boundary? | No |
| 2.2 Superficial Geology and Landslips | 2.2.1 Is there any Superficial Ground/Drift Geology present beneath the study site?* | No |
| | 2.2.2 Are there any records of permeability of superficial ground within 500m of the study site? | No |
| | 2.2.3 Are there any records of landslide within 500m of the study site boundary? | No |
| | 2.2.4 Are there any records relating to permeability of landslips within the study site* boundary? | No |

Section 2: Geology 1:50,000 Scale

2.3 Bedrock, Solid Geology and linear features

2.3.1 For records of Bedrock and Solid Geology beneath the study site* see the detailed findings section.

2.3.2 Are there any records relating to permeability of bedrock ground within the study site boundary?

Yes

2.3.3 Are there any records of linear features within 500m of the study site boundary?

Yes

Section 3: Radon

3. Radon

3.1 Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level?

The property is in a Radon Affected Area, as between 1 and 3% of properties are above the Action Level.

3.2 Radon Protection

No radon protective measures are necessary.

Section 4: Ground Workings

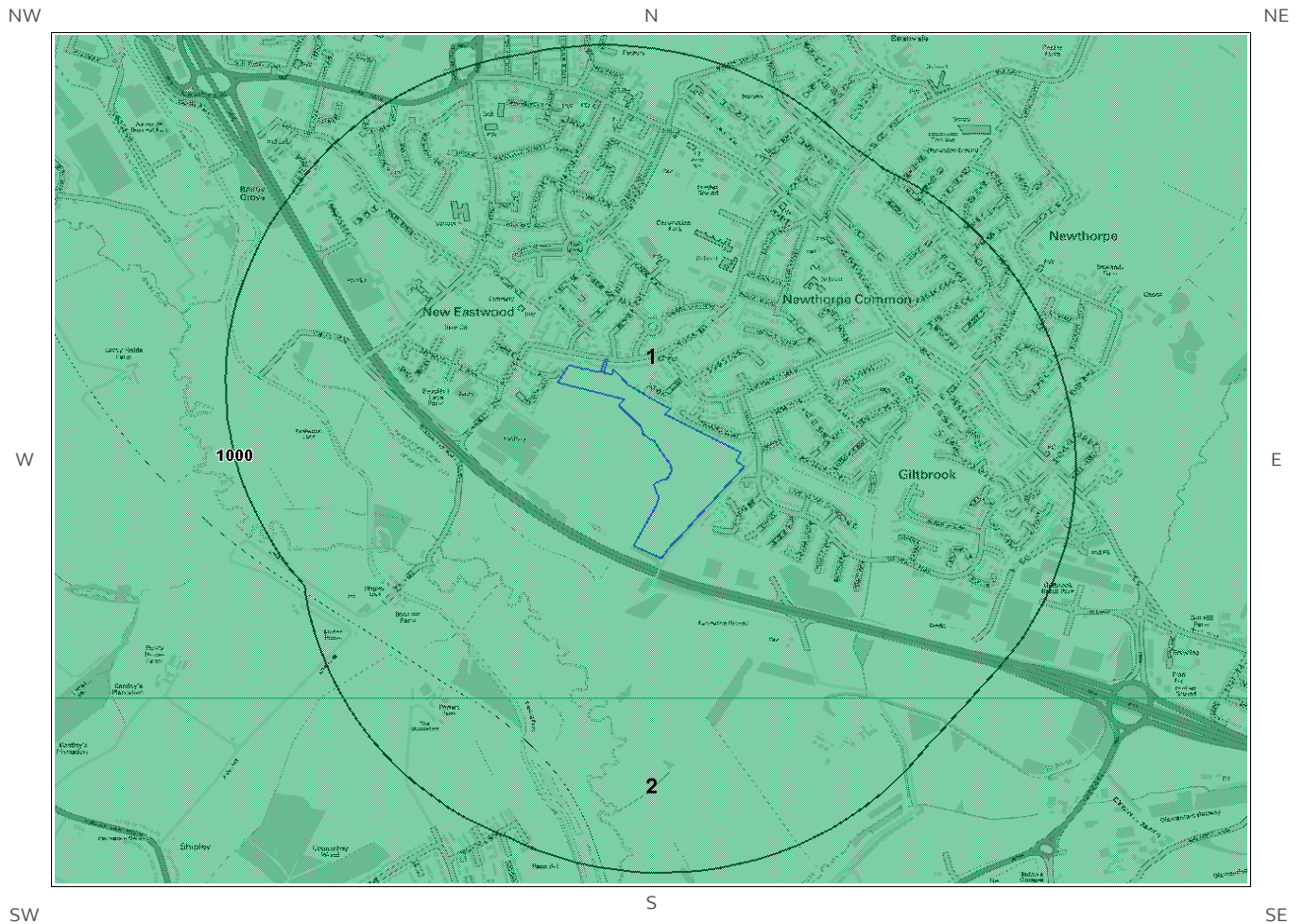
| | On-site | 0-50m | 51-250 | 251-500 | 501-1000 |
|---|---------|-------|--------|--------------|--------------|
| 4.1 Historical Surface Ground Working Features from Small Scale Mapping | 6 | 18 | 48 | Not Searched | Not Searched |
| 4.2 Historical Underground Workings from Small Scale Mapping | 0 | 1 | 4 | 14 | 38 |
| 4.3 Current Ground Workings | 0 | 0 | 4 | 7 | 35 |

Section 5: Mining, Extraction & Natural Cavities

| | On-site | 0-50m | 51-250 | 251-500 | 501-1000 |
|---|---------|-------|--------|---------|----------|
| 5.1 Historical Mining | 0 | 1 | 5 | 15 | 39 |
| 5.2 Coal Mining | 1 | 0 | 0 | 0 | 0 |
| 5.3 Johnson Poole and Bloomer Mining Area | 3 | 1 | 0 | 2 | 6 |
| 5.4 Non-Coal Mining* | 1 | 0 | 0 | 1 | 0 |
| 5.5 Non-Coal Mining Cavities | 0 | 0 | 0 | 0 | 0 |
| 5.5 Natural Cavities | 0 | 0 | 0 | 0 | 0 |

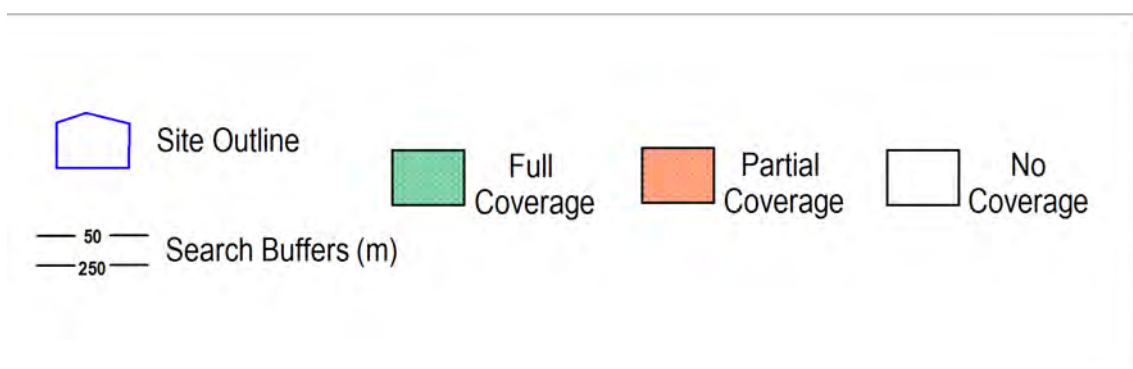
| Section 5: Mining, Extraction & Natural Cavities | On-site | 0-50m | 51-250 | 251-500 | 501-1000 |
|--|------------|-------|--------|--------------|----------|
| 5.6 Brine Extraction | 0 | 0 | 0 | 0 | 0 |
| 5.7 Gypsum Extraction | 0 | 0 | 0 | 0 | 0 |
| 5.8 Tin Mining | 0 | 0 | 0 | 0 | 0 |
| 5.9 Clay Mining | 0 | 0 | 0 | 0 | 0 |
| | | | | | |
| Section 6: Natural Ground Subsidence | On-site | | | | |
| 6.1 Shrink-Swell Clay | Very Low | | | | |
| 6.2 Landslides | Low | | | | |
| 6.3 Ground Dissolution of Soluble Rocks | Negligible | | | | |
| 6.4 Compressible Deposits | Negligible | | | | |
| 6.5 Collapsible Deposits | Very Low | | | | |
| 6.5 Running Sand | Negligible | | | | |
| | | | | | |
| Section 7: Borehole Records | On-site | 0-50m | 51-250 | | |
| 7 BGS Recorded Boreholes | 0 | 1 | 11 | | |
| | | | | | |
| Section 8: Estimated Background Soil Chemistry | On-site | 0-50m | 51-250 | | |
| 8 Records of Background Soil Chemistry | 17 | 8 | 0 | | |
| | | | | | |
| Section 9: Railways and Tunnels | On-site | 0-50m | 51-250 | 250-500 | |
| 9.1 Tunnels | 0 | 0 | 0 | Not Searched | |
| 9.2 Historical Railway and Tunnel Features | 0 | 4 | 20 | Not Searched | |
| 9.3 Historical Railways | 0 | 0 | 0 | Not Searched | |
| 9.4 Active Railways | 0 | 0 | 0 | Not Searched | |
| 9.5 Railway Projects | 0 | 0 | 0 | 0 | |

1:10,000 Scale Availability



1_10,000 Availability Legend

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Availability of 1:10,000 Scale Geology Mapping

The following information represents the availability of the key components of the 1:10,000 scale geological data.

| ID | Distance | Artificial Coverage | Superficial Coverage | Bedrock Coverage | Mass Movement Coverage |
|----|----------|--------------------------|----------------------|------------------|------------------------|
| 1 | 0.0 | Some deposits are mapped | Full | Full | No coverage |
| 2 | 443.0 | Some deposits are mapped | Full | Full | No coverage |
| N3 | 1742.0 | Some deposits are mapped | Partial | Full | No coverage |

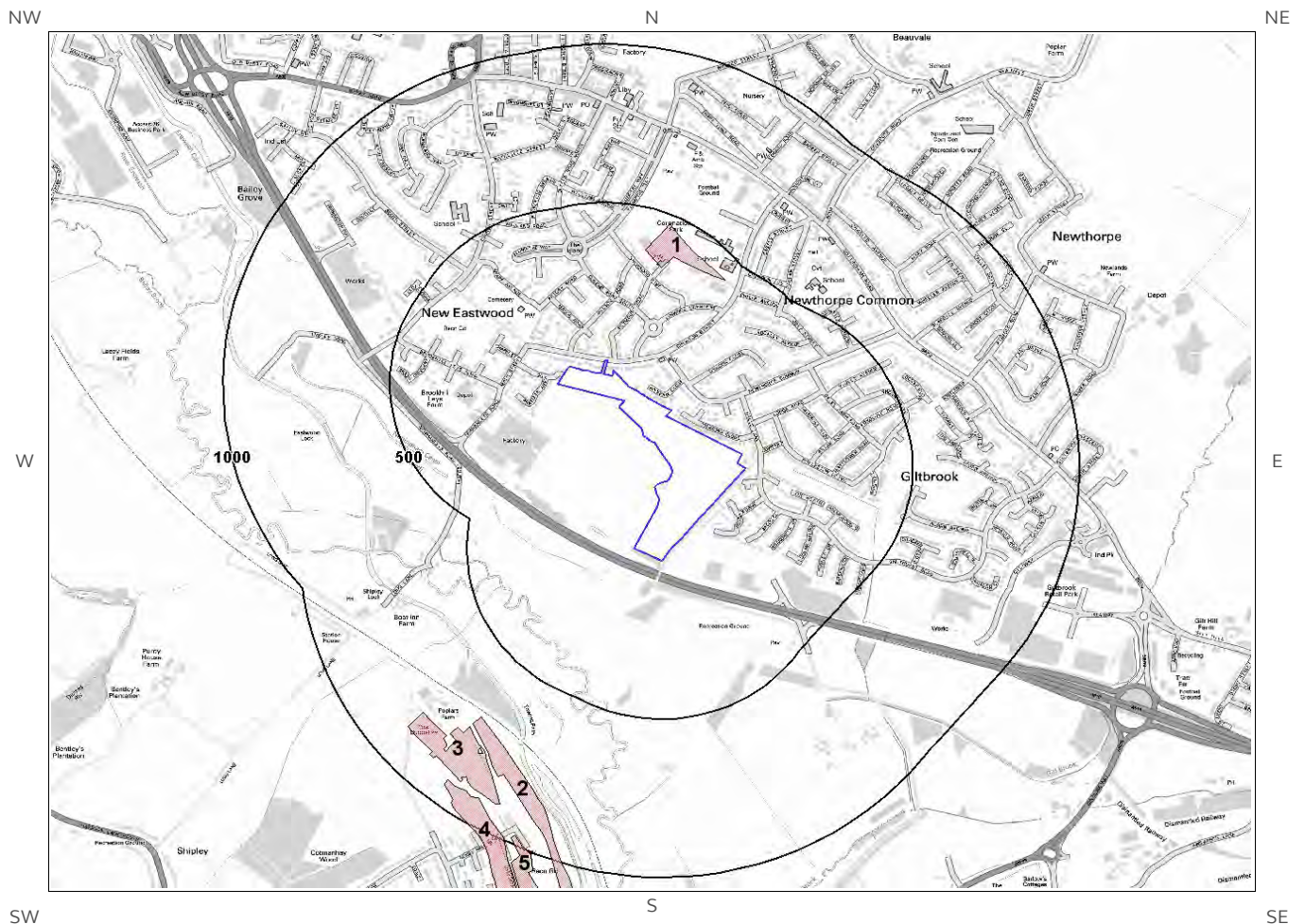
Guidance: The 1:10,000 scale geological interpretation is the most detailed generally available from BGS and is the scale at which most geological surveying is carried out in the field. The database is presented as four types of geology (artificial, mass movement, superficial and bedrock), although not all themes are mapped or available on every map sheet. Therefore a coverage layer showing the availability of the four themes is presented above.

The definitions of coverage are as follows:

| Geology | Full Coverage | Partial Coverage | No Coverage |
|---------------|---------------------------------------|--|------------------------|
| Bedrock | The whole tile has been mapped | Some but not all the tile has been mapped | No coverage |
| Superficial | The whole tile has been mapped | Some but not all of the tile has been mapped | No coverage |
| Artificial | Some deposits are mapped on this tile | - | No deposits are mapped |
| Mass Movement | Some deposits are mapped on this tile | - | No coverage |

1 Geology (1:10,000 scale).

1.1 Artificial Ground map (1:10,000 scale)



Artificial Ground Legend

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1. Geology 1:10,000 scale

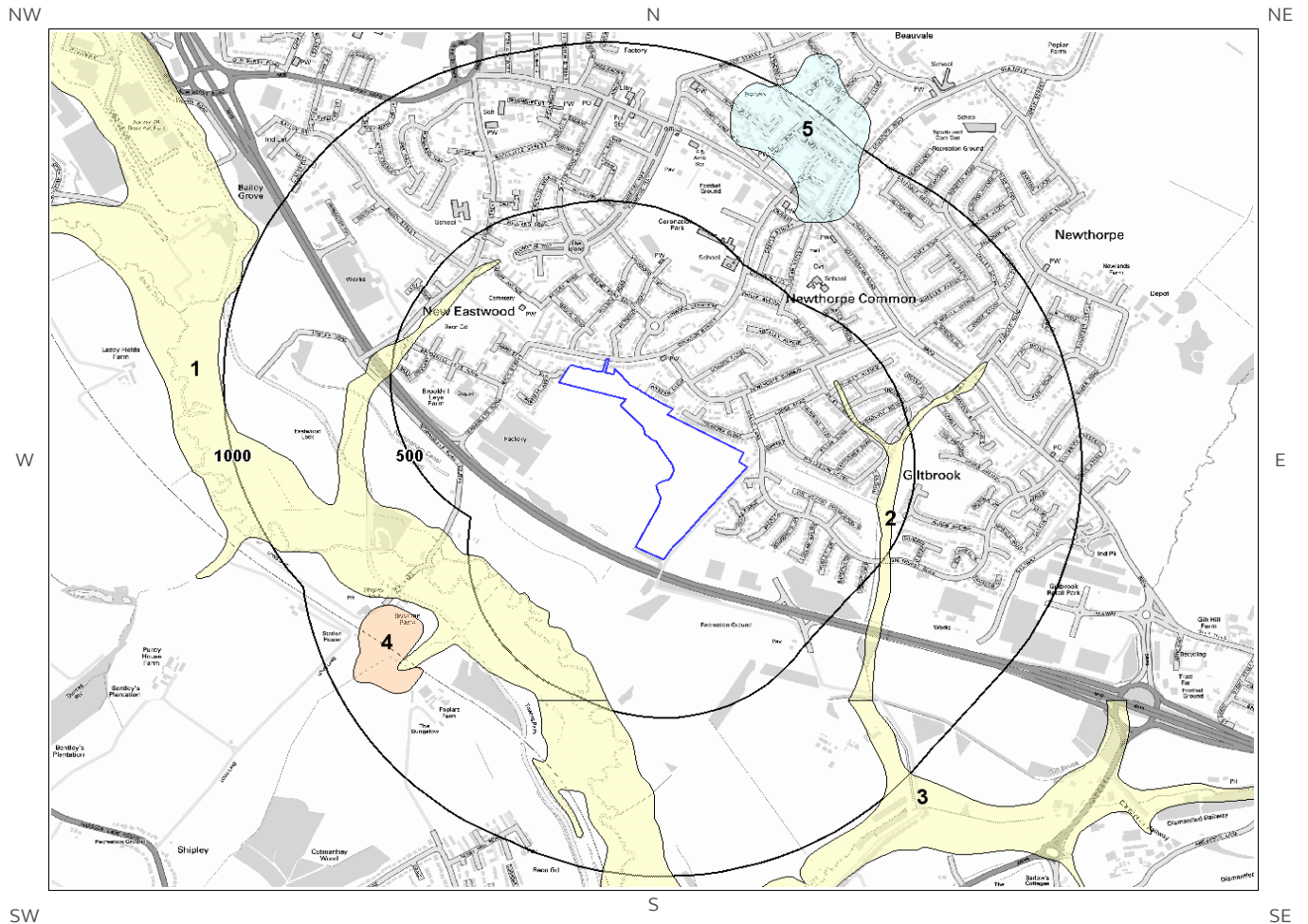
1.1 Artificial Ground

The following geological information represented on the mapping is derived from 1:10,000 scale BGS Geological mapping.

Are there any records of Artificial/ Made Ground within 500m of the study site boundary at 1:10,000 scale? Yes

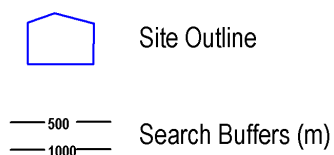
| ID | Distance | Direction | LEX Code | Description | Rock Description |
|----|----------|-----------|------------|-----------------|--------------------|
| 1 | 336.0 | NE | WMGR-ARTDP | Infilled Ground | Artificial Deposit |

1.2 Superficial Deposits and Landslips map (1:10,000 scale)



Artificial Ground Legend

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1.2 Superficial Deposits and Landslips

The following geological information represented on the mapping is derived from 1:10,000 scale BGS Geological mapping

1.2.1 Superficial Deposits/ Drift Geology

Are there any records of Superficial Deposits/ Drift Geology within 500m of the study site boundary at 1:10,000 scale? Yes

| ID | Distance (m) | Direction | LEX Code | Description | Rock Description |
|----|--------------|-----------|----------|--------------------------|------------------|
| 1 | 329.0 | SW | ALV-XSZ | Alluvium - Sand And Silt | Sand And Silt |
| 2 | 333.0 | NE | ALV-XSZ | Alluvium - Sand And Silt | Sand And Silt |
| 3 | 474.0 | S | ALV-XSZ | Alluvium - Sand And Silt | Sand And Silt |

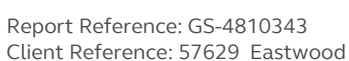
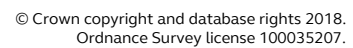
1.2.2 Landslip

Are there any records of Landslip within 500m of the study site boundary at 1:10,000 scale? No

Database searched and no data found.

The geology map for the site and surrounding area are extracted from the BGS Digital Geological Map of Great Britain at 1:10,000 scale

This Geology shows the main components as discrete layers, these are: Artificial / Made Ground, Superficial / Drift Geology and Landslips. These are all displayed with the BGS Lexicon code for the rock unit and BGS sheet number. Not all of the main geological components have nationwide coverage.



1.3 Bedrock and linear features

The following geological information represented on the mapping is derived from 1:10,000 scale BGS Geological mapping.

1.3.1 Bedrock/ Solid Geology

Records of Bedrock/Solid Geology within 500m of the study site boundary at 1:10,000 scale.

| ID | Distance (m) | Direction | LEX Code | Description | Rock Age |
|-----|--------------|-----------|-----------|--|---|
| 1R | 0.0 | On Site | PMCM-MDSS | Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone | Bolsovian Sub-age - Duckmantian Sub-age |
| 2 | 0.0 | On Site | PMCM-MDSS | Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone | Bolsovian Sub-age - Duckmantian Sub-age |
| 3 | 0.0 | On Site | PMCM-MDSS | Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone | Bolsovian Sub-age - Duckmantian Sub-age |
| 4 | 0.0 | On Site | PMCM-SDST | Pennine Middle Coal Measures Formation - Sandstone | Bolsovian Sub-age - Duckmantian Sub-age |
| 5 | 0.0 | On Site | PMCM-SDST | Pennine Middle Coal Measures Formation - Sandstone | Bolsovian Sub-age - Duckmantian Sub-age |
| 6F | 0.0 | On Site | PMCM-MDSS | Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone | Bolsovian Sub-age - Duckmantian Sub-age |
| 7 | 0.0 | On Site | PMCM-MDSS | Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone | Bolsovian Sub-age - Duckmantian Sub-age |
| 8 | 0.0 | On Site | PLCM-MDSS | Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone | Langsettian Sub-age |
| 9 | 0.0 | On Site | PMCM-SDST | Pennine Middle Coal Measures Formation - Sandstone | Bolsovian Sub-age - Duckmantian Sub-age |
| 10A | 26.0 | NW | PMCM-SDST | Pennine Middle Coal Measures Formation - Sandstone | Bolsovian Sub-age - Duckmantian Sub-age |
| 11G | 31.0 | W | PLCM-MDSS | Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone | Langsettian Sub-age |
| 12 | 45.0 | NW | PMCM-SDST | Pennine Middle Coal Measures Formation - Sandstone | Bolsovian Sub-age - Duckmantian Sub-age |
| 13A | 93.0 | NW | PMCM-MDSS | Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone | Bolsovian Sub-age - Duckmantian Sub-age |
| 14C | 108.0 | SW | PMCM-MDSS | Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone | Bolsovian Sub-age - Duckmantian Sub-age |
| 15 | 126.0 | W | PMCM-MDSS | Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone | Bolsovian Sub-age - Duckmantian Sub-age |
| 16B | 186.0 | SW | PMCM-SDST | Pennine Middle Coal Measures Formation - Sandstone | Bolsovian Sub-age - Duckmantian Sub-age |
| 17B | 192.0 | SW | PMCM-MDSS | Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone | Bolsovian Sub-age - Duckmantian Sub-age |
| 18C | 199.0 | S | PMCM-SDST | Pennine Middle Coal Measures Formation - Sandstone | Bolsovian Sub-age - Duckmantian Sub-age |
| 19 | 203.0 | SW | PMCM-MDSS | Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone | Bolsovian Sub-age - Duckmantian Sub-age |
| 20 | 205.0 | E | PMCM-SDST | Pennine Middle Coal Measures Formation - Sandstone | Bolsovian Sub-age - Duckmantian Sub-age |

| ID | Distance (m) | Direction | LEX Code | Description | Rock Age |
|-----|--------------|-----------|-----------|--|---|
| 21M | 290.0 | SE | PLCM-SDST | Pennine Lower Coal Measures Formation - Sandstone | Langsettian Sub-age |
| 22E | 301.0 | NE | PMCM-SDST | Pennine Middle Coal Measures Formation - Sandstone | Bolsovian Sub-age - Duckmantian Sub-age |
| 23 | 406.0 | N | PMCM-SDST | Pennine Middle Coal Measures Formation - Sandstone | Bolsovian Sub-age - Duckmantian Sub-age |
| 24 | 420.0 | N | PMCM-SDST | Pennine Middle Coal Measures Formation - Sandstone | Bolsovian Sub-age - Duckmantian Sub-age |
| 25 | 443.0 | S | PLCM-MDSS | Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone | Langsettian Sub-age |
| 26 | 446.0 | S | PLCM-MDSS | Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone | Langsettian Sub-age |
| 27 | 471.0 | NE | PMCM-SDST | Pennine Middle Coal Measures Formation - Sandstone | Bolsovian Sub-age - Duckmantian Sub-age |
| 28 | 496.0 | SW | PMCM-MDSS | Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone | Bolsovian Sub-age - Duckmantian Sub-age |

1.3.2 Linear features

Are there any records of linear features within 500m of the study site boundary at 1:10,000 scale? Yes

| ID | Distance (m) | Direction | Category Description | Feature Description |
|-----|--------------|-----------|----------------------|-----------------------------|
| 40D | 0.0 | On Site | ROCK | Coal seam, inferred |
| 41D | 0.0 | On Site | ROCK | Coal seam, inferred |
| 42 | 0.0 | On Site | FAULT | Normal fault, inferred |
| 43 | 0.0 | On Site | FAULT | Normal fault, inferred |
| 44H | 0.0 | On Site | ROCK | Coal seam, inferred |
| 45E | 0.0 | On Site | ROCK | Coal seam, inferred |
| 46F | 0.0 | On Site | ROCK | Coal seam, observed |
| 47 | 0.0 | On Site | FAULT | Normal fault, observed |
| 48 | 0.0 | On Site | FAULT | Normal fault, observed |
| 49F | 11.0 | SW | ROCK | Coal seam, observed |
| 50I | 25.0 | SE | ROCK | Coal seam, inferred |
| 51 | 25.0 | NW | ROCK | Coal seam, inferred |
| 52G | 31.0 | W | FAULT | Normal fault, inferred |
| 53H | 59.0 | E | ROCK | Coal seam, inferred |
| 54 | 65.0 | NW | ROCK | Coal seam, inferred |
| 55 | 65.0 | SE | FAULT | Normal fault, inferred |
| 56I | 78.0 | SE | ROCK | Coal seam, inferred |
| 57G | 105.0 | W | ROCK | Coal seam, inferred |
| 58J | 108.0 | SW | FAULT | Normal fault, observed |
| 59C | 114.0 | SW | ROCK | Coal seam, observed |
| 60 | 126.0 | W | FOSSIL_HORIZON | Fossil horizon, marine band |
| 61J | 142.0 | S | ROCK | Coal seam, inferred |
| 62J | 157.0 | S | ROCK | Coal seam, inferred |
| 63C | 171.0 | SW | ROCK | Coal seam, inferred |
| 64 | 178.0 | SW | FAULT | Normal fault, inferred |
| 65 | 184.0 | SE | ROCK | Coal seam, inferred |
| 66K | 199.0 | S | ROCK | Coal seam, inferred |

| ID | Distance (m) | Direction | Category Description | Feature Description |
|------|--------------|-----------|----------------------|-----------------------------|
| 67K | 202.0 | S | ROCK | Coal seam, inferred |
| 68B | 203.0 | SW | ROCK | Coal seam, inferred |
| 69S | 204.0 | E | FAULT | Normal fault, inferred |
| 70 | 211.0 | NE | ROCK | Coal seam, inferred |
| 71L | 222.0 | SW | FAULT | Normal fault, inferred |
| 72 | 239.0 | SW | ROCK | Coal seam, inferred |
| 73L | 249.0 | S | ROCK | Coal seam, inferred |
| 74 | 252.0 | E | ROCK | Coal seam, inferred |
| 75 | 258.0 | SE | ROCK | Coal seam, inferred |
| 76 | 260.0 | NE | ROCK | Coal seam, inferred |
| 77 | 262.0 | NW | ROCK | Coal seam, inferred |
| 78N | 278.0 | NE | ROCK | Coal seam, inferred |
| 79 | 280.0 | N | ROCK | Coal seam, inferred |
| 80O | 295.0 | S | ROCK | Coal seam, inferred |
| 81 | 312.0 | SW | ROCK | Coal seam, inferred |
| 82T | 314.0 | SW | FAULT | Normal fault, inferred |
| 83 | 324.0 | SE | ROCK | Coal seam, inferred |
| 84M | 334.0 | SE | ROCK | Coal seam, inferred |
| 85Q | 335.0 | NE | ROCK | Coal seam, inferred |
| 86N | 336.0 | NE | ROCK | Coal seam, observed |
| 87 | 366.0 | NW | ROCK | Coal seam, inferred |
| 88 | 369.0 | SW | ROCK | Coal seam, inferred |
| 89O | 372.0 | S | ROCK | Coal seam, inferred |
| 90P | 381.0 | N | ROCK | Coal seam, inferred |
| 91P | 400.0 | N | ROCK | Coal seam, inferred |
| 92 | 400.0 | W | ROCK | Coal seam, inferred |
| 93 | 415.0 | SW | ROCK | Coal seam, inferred |
| 94 | 415.0 | NW | FAULT | Normal fault, inferred |
| 95Q | 430.0 | NE | ROCK | Coal seam, inferred |
| 96 | 443.0 | S | ROCK | Coal seam, inferred |
| 97 | 445.0 | NW | ROCK | Coal seam, inferred |
| 98W | 446.0 | S | FAULT | Normal fault, observed |
| 99 | 449.0 | NE | ROCK | Coal seam, inferred |
| 100U | 453.0 | S | FAULT | Normal fault, inferred |
| 101R | 454.0 | SE | ROCK | Coal seam, inferred |
| 102V | 457.0 | S | ROCK | Coal seam, inferred |
| 103 | 463.0 | S | ROCK | Coal seam, inferred |
| 104 | 464.0 | SW | ROCK | Coal seam, inferred |
| 105S | 466.0 | SE | ROCK | Coal seam, inferred |
| 106T | 467.0 | W | ROCK | Coal seam, inferred |
| 107U | 471.0 | S | ROCK | Coal seam, inferred |
| 108V | 496.0 | SW | FOSSIL_HORIZON | Fossil horizon, marine band |

The geology map for the site and surrounding area are extracted from the BGS Digital Geological Map of great Britain at 1:10,000 scale.

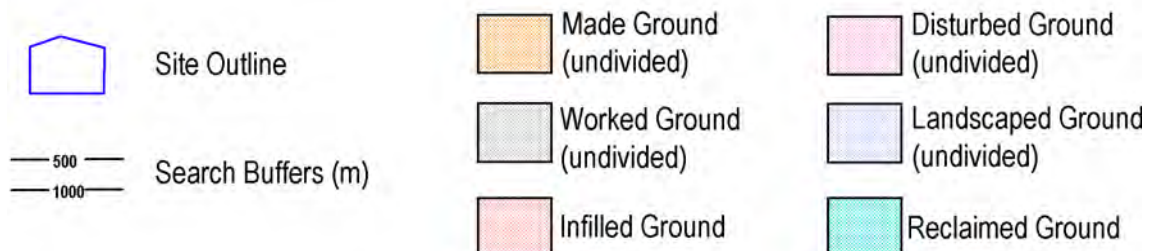
This Geology shows the main components as discrete layers, these are: Bedrock/ Solid Geology and linear features such as faults. These are all displayed with the BGS Lexicon code for the rock unit and BGS sheet number. Not all of the main geological components have nationwide coverage.

2 Geology 1:50,000 Scale

2.1 Artificial Ground map



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2. Geology 1:50,000 scale

2.1 Artificial Ground

The following geological information represented on the mapping is derived from 1:50,000 scale BGS Geological mapping, Sheet No: 125

2.1.1 Artificial/ Made Ground

Are there any records of Artificial/ Made Ground within 500m of the study site boundary? Yes

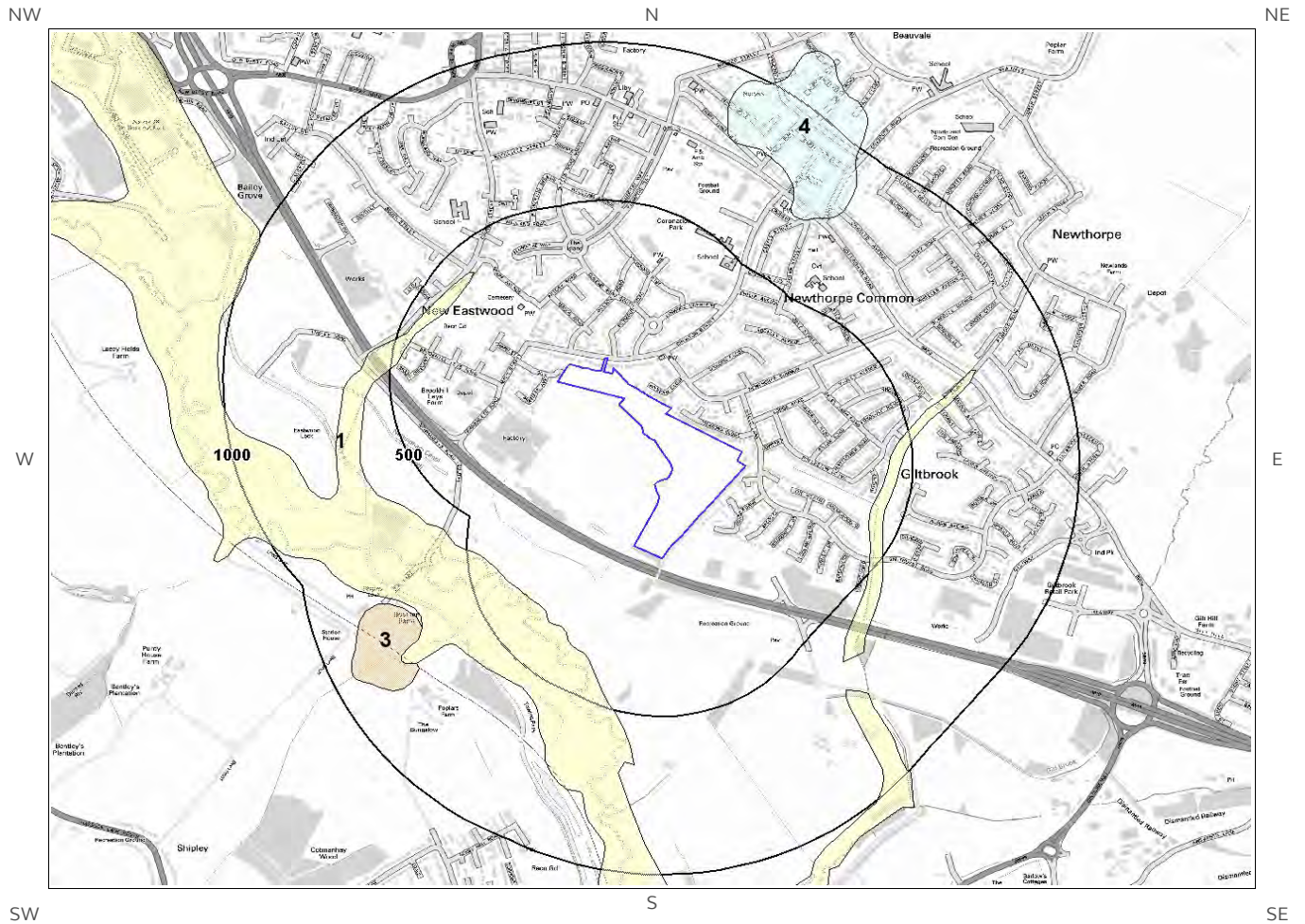
| ID | Distance (m) | Direction | LEX Code | Description | Rock Description |
|----|--------------|-----------|------------|-----------------|--------------------|
| 1 | 0.0 | On Site | WMGR-ARTDP | INFILLED GROUND | ARTIFICIAL DEPOSIT |
| 2 | 0.0 | On Site | WMGR-ARTDP | INFILLED GROUND | ARTIFICIAL DEPOSIT |
| 3 | 15.0 | SE | WMGR-ARTDP | INFILLED GROUND | ARTIFICIAL DEPOSIT |
| 4 | 203.0 | S | WMGR-ARTDP | INFILLED GROUND | ARTIFICIAL DEPOSIT |

2.1.2 Permeability of Artificial Ground

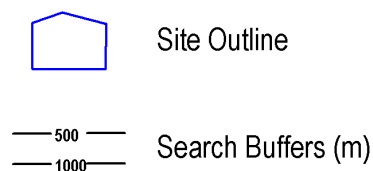
Are there any records relating to permeability of artificial ground within the study site boundary? No

Database searched and no data found.

2.2 Superficial Deposits and Landslips map (1:50,000 scale)



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2.2 Superficial Deposits and Landslips

2.2.1 Superficial Deposits/ Drift Geology

Are there any records of Superficial Deposits/ Drift Geology within 500m of the study site boundary? Yes

| ID | Distance | Direction | LEX Code | Description | Rock Description |
|----|----------|-----------|-----------|-------------|-----------------------------|
| 1 | 334.0 | SW | ALV-XCZSV | ALLUVIUM | CLAY, SILT, SAND AND GRAVEL |
| 2 | 399.0 | E | ALV-XCZSV | ALLUVIUM | CLAY, SILT, SAND AND GRAVEL |

2.2.2 Permeability of Superficial Ground

Are there any records relating to permeability of superficial ground within the study site boundary? No

Database searched and no data found.

2.2.3 Landslip

Are there any records of Landslip within 500m of the study site boundary? No

Database searched and no data found.

The geology map for the site and surrounding area are extracted from the BGS Digital Geological Map of Great Britain at 1:50,000 scale.

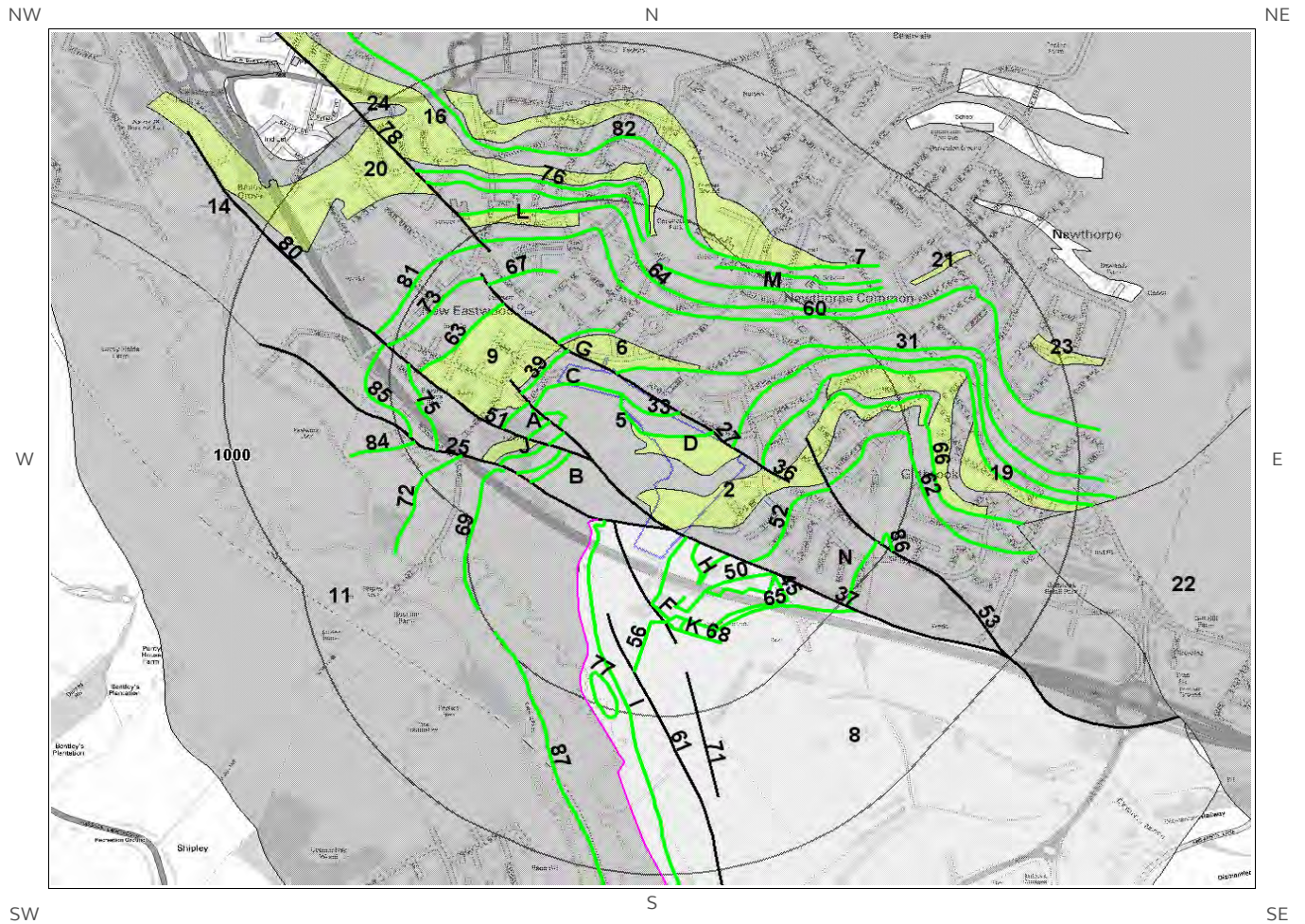
This Geology shows the main components as discrete layers, there are: Artificial/ Made Ground, Superficial/ Drift Geology and Landslips. These are all displayed with the BGS Lexicon code for the rock unit and BGS sheet number. Not all of the main geological components have nationwide coverage.

2.2.4 Landslip Permeability

Are there any records relating to permeability of landslips within the study site boundary? No

Database searched and no data found.

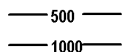
2.3 Bedrock and linear features map (1:50,000 scale)



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Site Outline



Search Buffers (m)

2.3 Bedrock, Solid Geology & linear features

The following geological information represented on the mapping is derived from 1:50,000 scale BGS Geological mapping, Sheet No: 125

2.3.1 Bedrock/Solid Geology

Records of Bedrock/Solid Geology within 500m of the study site boundary:

| ID | Distance | Direction | LEX Code | Rock Description | Rock Age |
|-----|----------|-----------|-----------|--|-------------|
| 1N | 0.0 | On Site | PMCM-MDSS | PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE | WESTPHALIAN |
| 2 | 0.0 | On Site | PMCM-SDST | PENNINE MIDDLE COAL MEASURES FORMATION - SANDSTONE | WESTPHALIAN |
| 3B | 0.0 | On Site | PMCM-MDSS | PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE | WESTPHALIAN |
| 4D | 0.0 | On Site | PMCM-SDST | PENNINE MIDDLE COAL MEASURES FORMATION - SANDSTONE | WESTPHALIAN |
| 5 | 0.0 | On Site | PMCM-MDSS | PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE | WESTPHALIAN |
| 6 | 0.0 | On Site | PMCM-SDST | PENNINE MIDDLE COAL MEASURES FORMATION - SANDSTONE | WESTPHALIAN |
| 7 | 0.0 | On Site | PMCM-MDSS | PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE | WESTPHALIAN |
| 8 | 0.0 | On Site | PLCM-MDSS | PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE | WESTPHALIAN |
| 9 | 57.0 | NW | PMCM-SDST | PENNINE MIDDLE COAL MEASURES FORMATION - SANDSTONE | WESTPHALIAN |
| 10A | 108.0 | SW | PMCM-MDSS | PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE | WESTPHALIAN |
| 11 | 131.0 | W | PMCM-MDSS | PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE | WESTPHALIAN |
| 12 | 198.0 | E | PMCM-SDST | PENNINE MIDDLE COAL MEASURES FORMATION - SANDSTONE | WESTPHALIAN |
| 13A | 200.0 | S | PMCM-SDST | PENNINE MIDDLE COAL MEASURES FORMATION - SANDSTONE | WESTPHALIAN |
| 14 | 207.0 | SW | PMCM-MDSS | PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE | WESTPHALIAN |
| 15E | 302.0 | NE | PMCM-SDST | PENNINE MIDDLE COAL MEASURES FORMATION - SANDSTONE | WESTPHALIAN |
| 16 | 410.0 | N | PMCM-SDST | PENNINE MIDDLE COAL MEASURES FORMATION - SANDSTONE | WESTPHALIAN |
| 17L | 430.0 | N | PMCM-SDST | PENNINE MIDDLE COAL MEASURES FORMATION - SANDSTONE | WESTPHALIAN |
| 18 | 466.0 | NE | PMCM-SDST | PENNINE MIDDLE COAL MEASURES FORMATION - SANDSTONE | WESTPHALIAN |

2.3.2 Permeability of Bedrock Ground

Are there any records relating to permeability of bedrock ground within the study site boundary? Yes

| Distance | Direction | Flow Type | Maximum Permeability | Minimum Permeability |
|----------|-----------|-----------|----------------------|----------------------|
| 0.0 | On Site | Fracture | Moderate | Low |
| 0.0 | On Site | Fracture | High | Moderate |
| 0.0 | On Site | Fracture | High | Moderate |
| 0.0 | On Site | Fracture | High | Low |
| 0.0 | On Site | Fracture | High | Moderate |

2.3.3 Linear features

Are there any records of linear features within 500m of the study site boundary? Yes

| ID | Distance | Direction | Category Description | Feature Description |
|-----|----------|-----------|----------------------|---------------------|
| 25 | 0.0 | On Site | FAULT | Fault, inferred |
| 26G | 0.0 | On Site | FAULT | Fault, inferred |
| 27 | 0.0 | On Site | FAULT | Fault, observed |
| 28B | 0.0 | On Site | FAULT | Fault, observed |
| 29C | 0.0 | On Site | ROCK | Coal seam, observed |
| 30C | 0.0 | On Site | ROCK | Coal seam, observed |
| 31 | 0.0 | On Site | ROCK | Coal seam, inferred |
| 32D | 0.0 | On Site | ROCK | Coal seam, inferred |
| 33 | 0.0 | On Site | ROCK | Coal seam, inferred |
| 34E | 0.0 | On Site | ROCK | Coal seam, inferred |
| 35F | 15.0 | SE | ROCK | Coal seam, observed |
| 36 | 25.0 | SE | FAULT | Fault, inferred |
| 37 | 35.0 | SE | FAULT | Fault, inferred |
| 38F | 35.0 | W | FAULT | Fault, inferred |
| 39 | 37.0 | NW | ROCK | Coal seam, inferred |
| 40E | 50.0 | E | ROCK | Coal seam, inferred |
| 41H | 54.0 | SE | ROCK | Coal seam, observed |
| 42G | 75.0 | NW | ROCK | Coal seam, inferred |
| 43A | 108.0 | SW | ROCK | Coal seam, observed |
| 44I | 109.0 | W | ROCK | Coal seam, inferred |
| 45 | 113.0 | S | ROCK | Coal seam, observed |
| 46A | 126.0 | S | ROCK | Coal seam, observed |
| 47H | 130.0 | SE | ROCK | Coal seam, inferred |
| 48I | 131.0 | W | FOSSIL_HORIZON | Marine band |
| 49A | 149.0 | S | ROCK | Coal seam, observed |
| 50 | 168.0 | SE | ROCK | Coal seam, inferred |
| 51 | 176.0 | SW | FAULT | Fault, observed |
| 52 | 185.0 | SE | ROCK | Coal seam, inferred |
| 53 | 198.0 | E | FAULT | Fault, inferred |
| 54J | 201.0 | S | ROCK | Coal seam, observed |
| 55J | 202.0 | S | ROCK | Coal seam, observed |
| 56 | 203.0 | S | ROCK | Coal seam, observed |
| 57K | 203.0 | S | ROCK | Coal seam, observed |

| ID | Distance | Direction | Category Description | Feature Description |
|-----|----------|-----------|----------------------|---------------------|
| 58B | 204.0 | S | ROCK | Coal seam, observed |
| 59K | 206.0 | S | ROCK | Coal seam, inferred |
| 60 | 216.0 | NE | ROCK | Coal seam, inferred |
| 61 | 226.0 | SW | FAULT | Fault, observed |
| 62 | 253.0 | E | ROCK | Coal seam, inferred |
| 63 | 272.0 | NW | ROCK | Coal seam, inferred |
| 64 | 280.0 | NE | ROCK | Coal seam, inferred |
| 65 | 280.0 | SE | ROCK | Coal seam, inferred |
| 66 | 281.0 | NE | ROCK | Coal seam, inferred |
| 67 | 289.0 | N | ROCK | Coal seam, inferred |
| 68 | 290.0 | SE | ROCK | Coal seam, observed |
| 69 | 324.0 | SW | ROCK | Coal seam, inferred |
| 70M | 336.0 | NE | ROCK | Coal seam, inferred |
| 71 | 366.0 | S | FAULT | Fault, inferred |
| 72 | 368.0 | SW | ROCK | Coal seam, inferred |
| 73 | 374.0 | NW | ROCK | Coal seam, inferred |
| 74L | 386.0 | N | ROCK | Coal seam, inferred |
| 75 | 397.0 | W | ROCK | Coal seam, inferred |
| 76 | 405.0 | N | ROCK | Coal seam, inferred |
| 77 | 413.0 | SW | ROCK | Coal seam, inferred |
| 78 | 425.0 | NW | FAULT | Fault, inferred |
| 79M | 430.0 | NE | ROCK | Coal seam, inferred |
| 80 | 447.0 | W | FAULT | Fault, inferred |
| 81 | 454.0 | NW | ROCK | Coal seam, inferred |
| 82 | 454.0 | NE | ROCK | Coal seam, inferred |
| 83N | 461.0 | SE | ROCK | Coal seam, inferred |
| 84 | 465.0 | SW | ROCK | Coal seam, inferred |
| 85 | 465.0 | W | ROCK | Coal seam, inferred |
| 86 | 471.0 | SE | ROCK | Coal seam, inferred |
| 87 | 496.0 | SW | ROCK | Coal seam, inferred |

The geology map for the site and surrounding area are extracted from the BGS Digital Geological Map of Great Britain at 1:50,000 scale.

This Geology shows the main components as discrete layers, these are: Bedrock/Solid Geology and linear features such as faults. These are all displayed with the BGS Lexicon code for the rock unit and BGS sheet number. Not all of the main geological components have nation wide coverage.

3 Radon Data

3.1 Radon Affected Areas

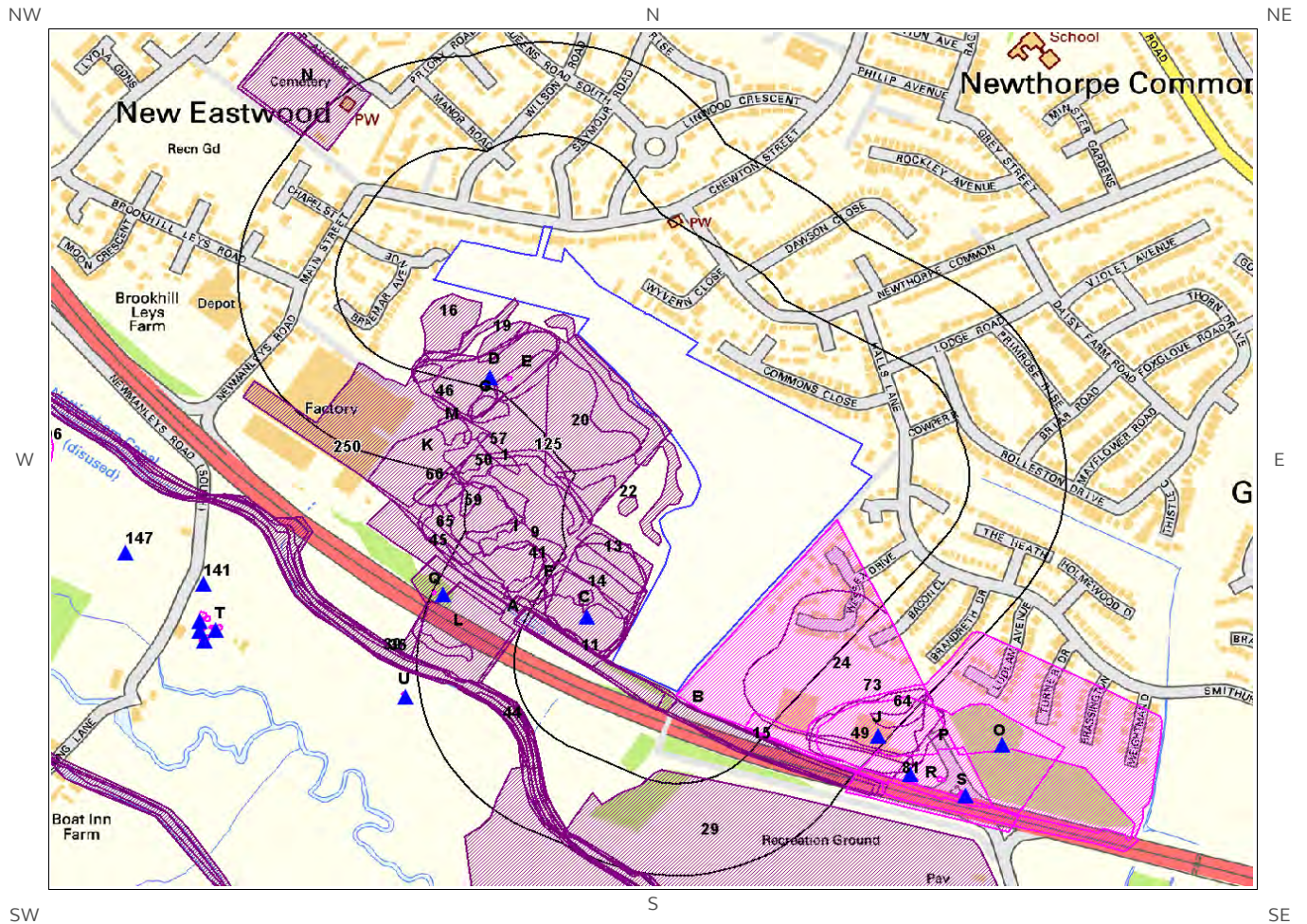
Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level? The property is in a Radon Affected Area, as between 1 and 3% of properties are above the Action Level.

The radon data in this report is supplied by the BGS/Public Health England and is the definitive map of Radon Affected Areas in Great Britain and Northern Ireland. The dataset was created using long-term radon measurements in over 479,000 homes across Great Britain and 23,000 homes across Northern Ireland, combined with geological data. The dataset is considered accurate to 50m to allow for the margin of error in geological lines, and the findings of this report supercede any answer given in the less accurate Indicative Atlas of Radon in Great Britain, which simplifies the data to give the highest risk within any given 1km grid square. As such, the radon atlas is considered indicative, whereas the data given in this report is considered definitive.

3.2 Radon Protection

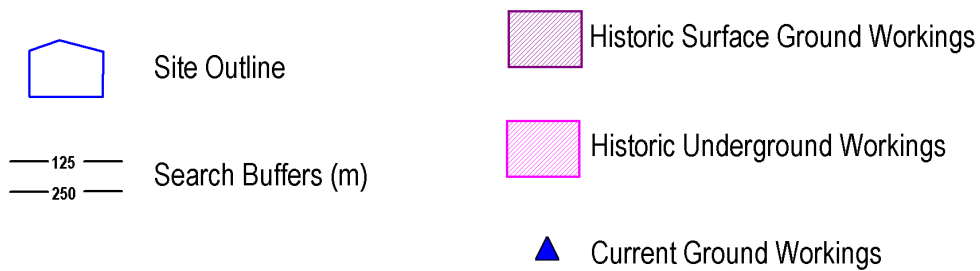
Is the property in an area where Radon Protection are required for new properties or extensions to existing ones as described in publication BR211 by the Building Research Establishment? No radon protective measures are necessary.

4 Ground Workings map



Ground Workings Legend

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4 Ground Workings

4.1 Historical Surface Ground Working Features derived from Historical Mapping

This dataset is based on Groundsure's unique Historical Land Use Database derived from 1:10,560 and 1:10,000 scale historical mapping

Are there any Historical Surface Ground Working Features within 250m of the study site boundary? Yes

| ID | Distance (m) | Direction | NGR | Use | Date |
|-----|--------------|-----------|------------------|-----------------------------|------|
| 1 | 0.0 | On Site | 446774 345718 | Brick Works | 1949 |
| 2 | 0.0 | On Site | 446783 345921 | Unspecified Ground Workings | 1966 |
| 3A | 0.0 | On Site | 446833 345551 | Brick Works | 1921 |
| 4B | 0.0 | On Site | 447038 345430 | Cuttings | 1921 |
| 5A | 0.0 | On Site | 446833 345551 | Brick Works | 1938 |
| 6B | 0.0 | SW | 447044 345425 | Cuttings | 1949 |
| 7C | 1.0 | NW | 446940 345553 | Unspecified Pit | 1921 |
| 8C | 1.0 | NW | 446940 345553 | Unspecified Pit | 1938 |
| 9 | 1.0 | NW | 446871 345631 | Refuse Heap | 1975 |
| 10 | 3.0 | SW | 447027 345799 | Unspecified Ground Workings | 1966 |
| 11 | 3.0 | SW | 446944 345487 | Cuttings | 1880 |
| 12C | 3.0 | NW | 446936 345538 | Water Body | 1966 |
| 13 | 5.0 | NW | 446971 345617 | Unspecified Heap | 1966 |
| 14 | 6.0 | NW | 446952 345570 | Unspecified Pit | 1949 |
| 15 | 11.0 | S | 447176 345367 | Cuttings | 1880 |
| 16 | 12.0 | S | 446766 345939 | Pond | 1975 |
| 17D | 24.0 | W | 446824 345874 | Unspecified Pit | 1938 |
| 18D | 24.0 | W | 446824 345874 | Unspecified Pit | 1921 |
| 19 | 26.0 | S | 446834 345920 | Unspecified Heap | 1966 |
| 20 | 27.0 | SW | 446948 345789 | Unspecified Ground Workings | 1949 |
| 21D | 27.0 | W | 446810 345873 | Unspecified Ground Workings | 1949 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|-----|--------------|-----------|------------------|-----------------------------|------|
| 22 | 33.0 | NW | 446994 345695 | Unspecified Heap | 1966 |
| 23E | 40.0 | SW | 446862 345874 | Unspecified Heap | 1966 |
| 24 | 41.0 | SE | 447260 345468 | Refuse Heap | 1966 |
| 25C | 60.0 | NW | 446939 345571 | Unspecified Heap | 1966 |
| 26O | 97.0 | SE | 447441 345375 | Colliery | 1949 |
| 27 | 97.0 | W | 446915 345710 | Unspecified Ground Workings | 1966 |
| 28E | 102.0 | S | 446841 345869 | Old Coal Pit | 1880 |
| 29 | 108.0 | S | 447179 345172 | Opencast Workings | 1975 |
| 30F | 110.0 | NW | 446891 345588 | Unspecified Ground Workings | 1966 |
| 31F | 117.0 | NW | 446862 345582 | Refuse Heap | 1949 |
| 32G | 118.0 | S | 446809 345840 | Unspecified Pit | 1899 |
| 33I | 118.0 | NW | 446849 345645 | Unspecified Ground Workings | 1949 |
| 34G | 131.0 | SW | 446814 345827 | Unspecified Heap | 1966 |
| 35 | 131.0 | SW | 446814 344300 | Canal | 1921 |
| 36L | 132.0 | W | 446776 345529 | Brick Works | 1949 |
| 37H | 134.0 | SW | 446206 345912 | Canal | 1938 |
| 38H | 134.0 | SW | 446206 345912 | Canal | 1899 |
| 39 | 135.0 | SW | 446027 345908 | Canal | 1880 |
| 40 | 138.0 | SW | 445669 346833 | Disused Canal | 1966 |
| 41 | 138.0 | NW | 446879 345612 | Unspecified Ground Workings | 1949 |
| 42I | 138.0 | NW | 446822 345654 | Water Body | 1966 |
| 43 | 139.0 | SW | 445595 346831 | Canal | 1949 |
| 44 | 143.0 | SW | 446854 345390 | Water Body | 1975 |
| 45 | 152.0 | NW | 446752 345626 | Cuttings | 1880 |
| 46 | 152.0 | S | 446758 345833 | Pond | 1975 |
| 47J | 166.0 | SE | 447314 345386 | Unspecified Pit | 1938 |
| 48J | 166.0 | SE | 447314 345386 | Unspecified Pit | 1921 |
| 49 | 167.0 | SE | 447292 345366 | Refuse Heap | 1949 |
| 50 | 170.0 | W | 446811 345729 | Refuse Heap | 1949 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|-----|--------------|-----------|------------------|-----------------------------|------|
| 51K | 171.0 | S | 446737 345756 | Brick Works | 1921 |
| 52K | 171.0 | S | 446737 345756 | Brick Works | 1938 |
| 53K | 171.0 | S | 446737 345756 | Brick Works | 1899 |
| 54M | 172.0 | S | 446768 345799 | Refuse Heap | 1949 |
| 55J | 174.0 | SE | 447319 345385 | Unspecified Pit | 1899 |
| 56P | 174.0 | SE | 447342 345370 | Colliery and Brick Works | 1899 |
| 57 | 175.0 | SW | 446827 345767 | Unspecified Pit | 1949 |
| 58L | 180.0 | W | 446734 345514 | Refuse Heap | 1949 |
| 59 | 185.0 | W | 446797 345678 | Water Body | 1949 |
| 60M | 186.0 | S | 446787 345789 | Unspecified Ground Workings | 1949 |
| 61N | 211.0 | NW | 446579 346263 | Cemetery | 1921 |
| 62N | 211.0 | NW | 446579 346263 | Cemetery | 1938 |
| 63N | 211.0 | NW | 446579 346263 | Cemetery | 1899 |
| 64 | 212.0 | SE | 447364 345417 | Refuse Heap | 1949 |
| 65 | 224.0 | NW | 446762 345658 | Unspecified Ground Workings | 1949 |
| 66 | 240.0 | S | 446745 345723 | Unspecified Pit | 1949 |
| 67Q | 245.0 | NW | 446744 345578 | Old Coal Pit | 1880 |
| 68N | 248.0 | NW | 446563 346273 | Cemetery | 1988 |
| 69N | 248.0 | NW | 446563 346273 | Cemetery | 1966 |
| 70N | 248.0 | NW | 446563 346273 | Cemetery | 1984 |
| 71N | 248.0 | NW | 446563 346273 | Cemetery | 1975 |
| 72N | 248.0 | NW | 446563 346273 | Cemetery | 1949 |

4.2 Historical Underground Working Features derived from Historical Mapping

This data is derived from the Groundsure unique Historical Land Use Database. It contains data derived from 1:10,000 and 1:10,560 historical Ordnance Survey Mapping and includes some natural topographical features (Shake Holes for example) as well as manmade features that may have implications for ground stability. Underground and mining features have been identified from surface features such as shafts. The distance that these extend underground is not shown.

Are there any Historical Underground Working Features within 1000m of the study site boundary? Yes

The following Historical Underground Working Features are provided by Groundsure:

| ID | Distance (m) | Direction | NGR | Use | Date |
|-----------|--------------|-----------|------------------|--------------------------|------|
| 73 | 2.0 | SE | 447351 345459 | Unspecified Disused Mine | 1966 |
| 74O | 97.0 | SE | 447441 345375 | Colliery | 1949 |
| 75D | 102.0 | S | 446841 345869 | Old Coal Pit | 1880 |
| 76P | 174.0 | SE | 447342 345370 | Colliery and Brick Works | 1899 |
| 77Q | 245.0 | NW | 446744 345578 | Old Coal Pit | 1880 |
| 78R | 251.0 | SE | 447385 345313 | Colliery | 1880 |
| 79U | 269.0 | W | 446704 345441 | Old Coal Pit | 1880 |
| 80R | 306.0 | SE | 447358 345322 | Unspecified Old Shafts | 1938 |
| 81 | 310.0 | SE | 447358 345319 | Unspecified Shaft | 1880 |
| 82R | 311.0 | SE | 447363 345322 | Unspecified Old Shafts | 1921 |
| 83R | 334.0 | SE | 447395 345324 | Unspecified Old Shafts | 1938 |
| 84R | 339.0 | SE | 447400 345324 | Unspecified Old Shafts | 1921 |
| 85S | 368.0 | SE | 447424 345304 | Unspecified Old Shafts | 1938 |
| 86S | 370.0 | SE | 447424 345304 | Unspecified Shaft | 1880 |
| 87S | 372.0 | SE | 447428 345304 | Unspecified Old Shafts | 1921 |
| Not shown | 486.0 | N | 446982 346556 | Old Coal Shaft | 1899 |
| Not shown | 489.0 | N | 446977 346559 | Unspecified Old Shaft | 1949 |
| Not shown | 489.0 | N | 446981 346558 | Unspecified Old Shaft | 1921 |
| Not shown | 489.0 | N | 446981 346558 | Unspecified Old Shaft | 1938 |
| 92T | 503.0 | W | 446468 345531 | Old Coal Shafts | 1899 |
| Not shown | 512.0 | N | 447065 346599 | Unspecified Mine | 1880 |
| 94T | 512.0 | W | 446460 345531 | Unspecified Old Shafts | 1938 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|-----------|--------------|-----------|------------------|---------------------------|------|
| 95T | 512.0 | W | 446460 345531 | Unspecified Old Shafts | 1921 |
| 96T | 516.0 | W | 446457 345531 | Unspecified Old Shafts | 1949 |
| 97T | 518.0 | W | 446452 345517 | Old Coal Shafts | 1899 |
| 98T | 520.0 | W | 446452 345543 | Old Coal Shafts | 1899 |
| 99T | 524.0 | W | 446446 345515 | Unspecified Old Shafts | 1938 |
| 100T | 524.0 | W | 446446 345515 | Unspecified Old Shafts | 1921 |
| 101T | 525.0 | W | 446445 345529 | Old Coal Shafts | 1899 |
| 102T | 526.0 | W | 446445 345547 | Unspecified Disused Shaft | 1966 |
| 103T | 528.0 | W | 446445 345542 | Unspecified Old Shafts | 1938 |
| 104T | 528.0 | W | 446445 345540 | Old Coal Pit | 1880 |
| 105T | 532.0 | W | 446442 345542 | Unspecified Old Shafts | 1949 |
| 106 | 537.0 | SW | 446224 345770 | Old Coal Pit | 1880 |
| Not shown | 538.0 | N | 447063 346663 | Colliery | 1880 |
| Not shown | 590.0 | SW | 446524 345029 | Colliery | 1880 |
| Not shown | 596.0 | W | 446003 345949 | Colliery | 1880 |
| Not shown | 613.0 | NE | 447317 346578 | Colliery | 1949 |
| Not shown | 626.0 | NE | 447334 346571 | Colliery | 1921 |
| Not shown | 626.0 | NE | 447334 346571 | Colliery | 1938 |
| Not shown | 664.0 | SW | 446479 345032 | Unspecified Shafts | 1880 |
| Not shown | 670.0 | SW | 446466 345040 | Unspecified Shafts | 1880 |
| Not shown | 676.0 | E | 448034 345640 | Colliery | 1880 |
| Not shown | 700.0 | E | 448009 345688 | Unspecified Old Shaft | 1949 |
| Not shown | 703.0 | E | 448011 345683 | Unspecified Shaft | 1880 |
| Not shown | 703.0 | E | 448013 345686 | OLD Coal Shaft | 1899 |
| Not shown | 703.0 | E | 448013 345686 | Unspecified Old Shaft | 1921 |
| Not shown | 703.0 | E | 448013 345686 | Unspecified Old Shaft | 1938 |
| Not shown | 721.0 | S | 447063 344718 | Old Coal Pits | 1880 |
| Not shown | 739.0 | W | 446002 345969 | Unspecified Shafts | 1880 |
| Not shown | 741.0 | W | 445999 345974 | Unspecified Shaft | 1880 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|-----------|--------------|-----------|------------------|---------------------------|------|
| Not shown | 750.0 | W | 445991 345974 | Unspecified Shafts | 1880 |
| Not shown | 754.0 | S | 447076 344686 | Old Coal Pits | 1880 |
| Not shown | 763.0 | SE | 447798 345128 | Unspecified Disused Shaft | 1966 |
| Not shown | 769.0 | SE | 447798 345123 | Old Air Shaft | 1921 |
| Not shown | 769.0 | SE | 447798 345123 | Old Air Shaft | 1938 |
| Not shown | 769.0 | SE | 447798 345123 | Air Shaft | 1899 |

4.3 Current Ground Workings

This dataset is derived from the BGS BRITPITS database covering active; inactive mines; quarries; oil wells; gas wells and mineral wharves; and rail deposits throughout the British Isles.

Are there any BGS Current Ground Workings within 1000m of the study site boundary? Yes

The following Current Ground Workings information is provided by British Geological Survey:

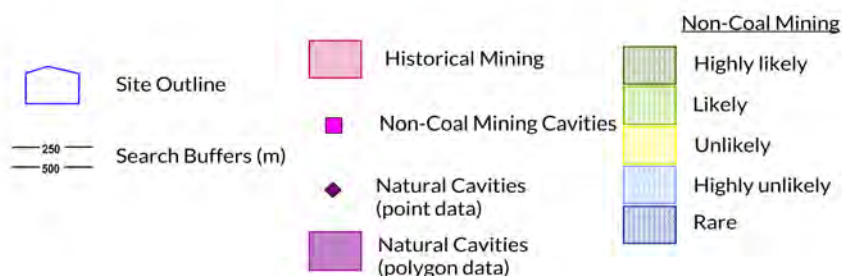
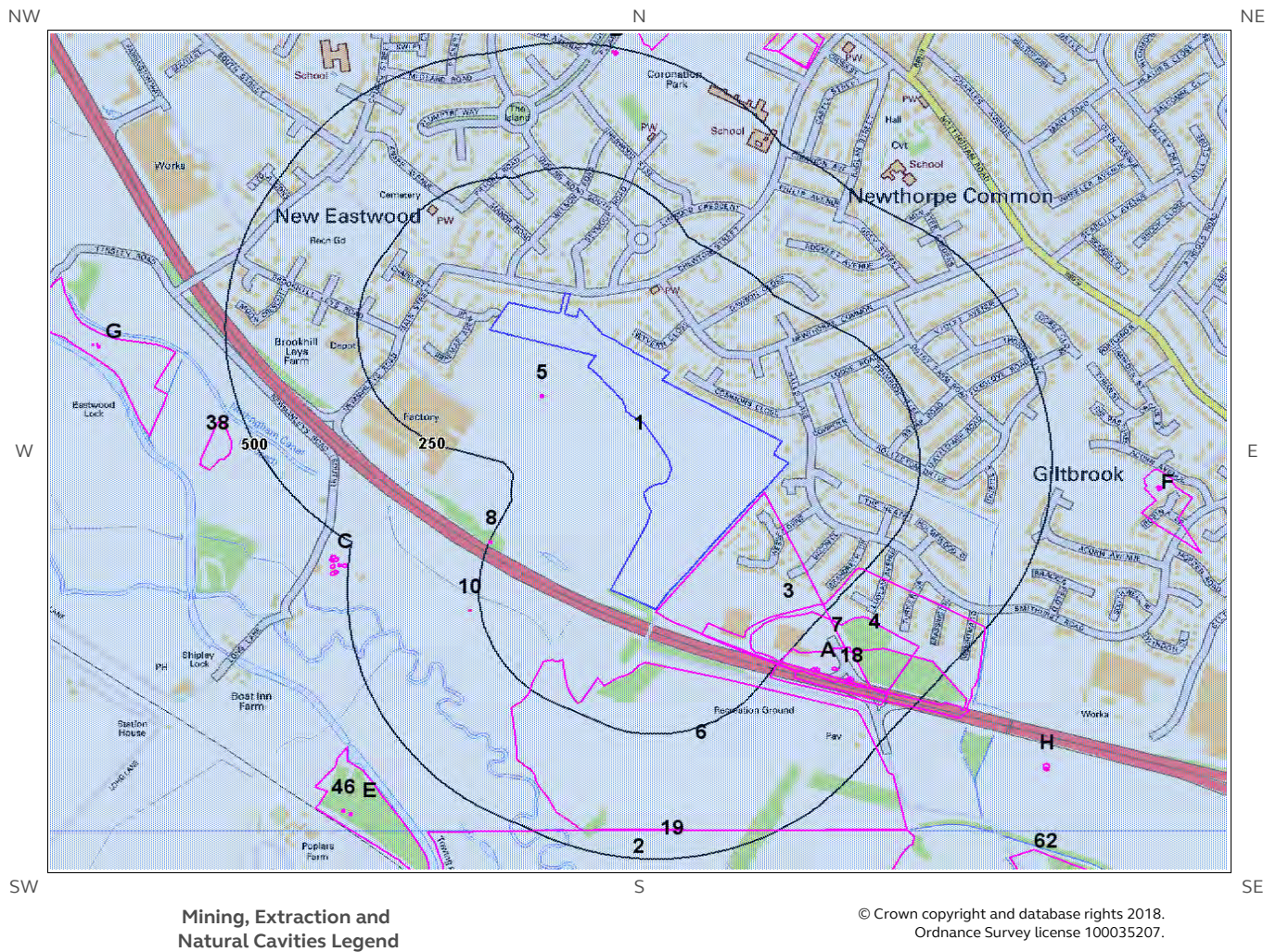
| ID | Distance (m) | Direction | NGR | Commodity Produced | Pit Name | Type of working | Status |
|-----------|--------------|-----------|------------------|--------------------|----------------------------|--|--------|
| 130C | 58.0 | NW | 446940 345545 | Clay & Shale | Erewash Brickworks | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| 131D | 111.0 | S | 446815 345870 | Clay & Shale | Eastwood Brick Works | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| 132Q | 236.0 | NW | 446755 345575 | Coal, Deep | Erewash Coal Pit | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 133J | 238.0 | SE | 447315 345382 | Clay & Shale | Lodge Colliery Brick Works | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| 134U | 269.0 | W | 446707 345436 | Coal, Deep | Newthorpe Lodge Pit | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 135R | 304.0 | SE | 447356 345330 | Coal, Deep | Lodge Colliery, No 1 Shaft | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 316.0 | N | 446868 346392 | Mineral | Eastwood Workings | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| 137O | 367.0 | SE | 447475 345370 | Clay & Shale | Lodge Colliery Brick Works | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |

| ID | Distance (m) | Direction | NGR | Commodity Produced | Pit Name | Type of working | Status |
|-----------|--------------|-----------|------------------|--------------------|-----------------------------|--|--------|
| 138S | 377.0 | SE | 447428 345301 | Coal, Deep | Lodge Colliery, No 2 Shaft | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 412.0 | NE | 447069 346449 | Coal, Deep | Hilltop OCCS | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| Not shown | 491.0 | N | 446975 346560 | Coal, Deep | Eastwood Pit | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 141 | 509.0 | SW | 446447 345589 | Coal, Deep | Eastwood Colliery | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 142T | 512.0 | W | 446462 345526 | Coal, Deep | High Headstocks Colliery | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 143T | 525.0 | W | 446448 345512 | Coal, Deep | High Headstocks Colliery | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 529.0 | N | 447057 346579 | Coal, Deep | Springfield Colliery | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 145T | 532.0 | W | 446442 345525 | Coal, Deep | High Headstocks Colliery | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 146T | 533.0 | W | 446442 345539 | Coal, Deep | High Headstocks Colliery | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| 147 | 543.0 | SW | 446346 345632 | Coal, Deep | Eastwood Colliery No. 4 Pit | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 549.0 | N | 447069 346596 | Coal, Deep | Springfield Colliery | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 563.0 | N | 447038 346620 | Clay & Shale | Eastwood Brick Works | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 575.0 | N | 447064 346625 | Clay & Shale | Eastwood Brick Works | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |

| ID | Distance (m) | Direction | NGR | Commodity Produced | Pit Name | Type of working | Status |
|-----------|--------------|-----------|------------------|---------------------|-----------------------------|--|--------|
| Not shown | 586.0 | SW | 446205 345768 | Coal, Deep | Eastwood Colliery No. 3 Pit | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 660.0 | NE | 447312 346587 | Coal, Deep | Newthorpe Colliery | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 661.0 | NE | 447331 346573 | Coal, Deep | Newthorpe Colliery | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 663.0 | SW | 446481 345036 | Coal, Deep | Cotmanhay Colliery | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 669.0 | SW | 446461 345050 | Coal, Deep | Cotmanhay Colliery | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 693.0 | E | 448001 345711 | Coal, Deep | Newthorpe Colliery | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 705.0 | E | 448011 345687 | Coal, Deep | Newthorpe Colliery | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 721.0 | S | 447066 344722 | Coal, Deep | Newthorpe Lodge Coal Pits | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 747.0 | W | 445995 345983 | Coal, Deep | Eastwood Colliery | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 755.0 | NE | 447980 346098 | Coal, Deep | New Auckland Colliery | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 763.0 | S | 447076 344680 | Coal, Deep | Newthorpe Lodge Coal Pits | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 766.0 | W | 445976 345988 | Coal, Deep | Eastwood Colliery | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 771.0 | SW | 446571 344823 | Coal, Surface Mined | Poplar Farm OCCS | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |

| ID | Distance (m) | Direction | NGR | Commodity Produced | Pit Name | Type of working | Status |
|-----------|--------------|-----------|------------------|---------------------|--------------------------------------|--|--------|
| Not shown | 779.0 | SE | 447795 345109 | Clay & Shale | Erewash Valley Brick Works Air Shaft | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 785.0 | E | 448085 345625 | Clay & Shale | Newthorpe Brick Yard | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| Not shown | 799.0 | SE | 447760 345040 | Clay & Shale | Erewash Valley Brickworks | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| Not shown | 816.0 | SW | 446486 344827 | Coal, Surface Mined | Poplar Farm OCCS | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| Not shown | 843.0 | SW | 446358 344904 | Coal, Surface Mined | Poplar Farm OCCS | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| Not shown | 845.0 | NE | 447502 346663 | Clay & Shale | Brookhill Leys Brick Yard | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| Not shown | 879.0 | SW | 446671 344653 | Coal, Surface Mined | Poplar Farm OCCS | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| Not shown | 892.0 | S | 447270 344577 | Coal, Deep | Gilt Brook Coal Pits | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 922.0 | S | 447340 344566 | Coal, Deep | Gilt Brook Coal Mine | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 931.0 | S | 447380 344570 | Clay & Shale | Gilt Brook Clay Pits | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| Not shown | 939.0 | S | 447258 344526 | Coal, Deep | Gilt Brook Coal Pits | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 993.0 | NE | 447325 346970 | Clay & Shale | Lynn Croft Brick Yard | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |

5 Mining, Extraction & Natural Cavities map



5 Mining, Extraction & Natural Cavities

5.1 Historical Mining

This dataset is derived from Groundsure unique Historical Land-use Database that are indicative of mining or extraction activities.

Are there any Historical Mining areas within 1000m of the study site boundary? Yes

The following Historical Mining information is provided by Groundsure:

| ID | Distance (m) | Direction | NGR | Details | Date |
|-----|--------------|-----------|------------------|--------------------------|------|
| 3 | 2.0 | SE | 447351 345459 | Unspecified Disused Mine | 1966 |
| 4 | 97.0 | SE | 447441 345375 | Colliery | 1949 |
| 5 | 102.0 | S | 446841 345869 | Old Coal Pit | 1880 |
| 6 | 108.0 | S | 447179 345172 | Opencast Workings | 1975 |
| 7 | 174.0 | SE | 447342 345370 | Colliery and Brick Works | 1899 |
| 8 | 245.0 | NW | 446744 345578 | Old Coal Pit | 1880 |
| 9A | 251.0 | SE | 447385 345313 | Colliery | 1880 |
| 10 | 269.0 | W | 446704 345441 | Old Coal Pit | 1880 |
| 11A | 306.0 | SE | 447358 345322 | Unspecified Old Shafts | 1938 |
| 12A | 310.0 | SE | 447358 345319 | Unspecified Shaft | 1880 |
| 13A | 311.0 | SE | 447363 345322 | Unspecified Old Shafts | 1921 |
| 14A | 334.0 | SE | 447395 345324 | Unspecified Old Shafts | 1938 |
| 15A | 339.0 | SE | 447400 345324 | Unspecified Old Shafts | 1921 |
| 16A | 368.0 | SE | 447424 345304 | Unspecified Old Shafts | 1938 |
| 17A | 370.0 | SE | 447424 345304 | Unspecified Shaft | 1880 |
| 18 | 372.0 | SE | 447428 345304 | Unspecified Old Shafts | 1921 |
| 19 | 442.0 | S | 447153 344569 | Opencast Workings | 1971 |
| 20B | 486.0 | N | 446982 346556 | Old Coal Shaft | 1899 |
| 21B | 489.0 | N | 446977 346559 | Unspecified Old Shaft | 1949 |
| 22B | 489.0 | N | 446981 346558 | Unspecified Old Shaft | 1938 |

| ID | Distance (m) | Direction | NGR | Details | Date |
|-----------|--------------|-----------|------------------|---------------------------|------|
| 23B | 489.0 | N | 446981 346558 | Unspecified Old Shaft | 1921 |
| 24C | 503.0 | W | 446468 345531 | Old Coal Shafts | 1899 |
| 25 | 512.0 | N | 447065 346599 | Unspecified Mine | 1880 |
| 26C | 512.0 | W | 446460 345531 | Unspecified Old Shafts | 1938 |
| 27C | 512.0 | W | 446460 345531 | Unspecified Old Shafts | 1921 |
| 28C | 516.0 | W | 446457 345531 | Unspecified Old Shafts | 1949 |
| 29C | 518.0 | W | 446452 345517 | Old Coal Shafts | 1899 |
| 30C | 520.0 | W | 446452 345543 | Old Coal Shafts | 1899 |
| 31C | 524.0 | W | 446446 345515 | Unspecified Old Shafts | 1921 |
| 32C | 524.0 | W | 446446 345515 | Unspecified Old Shafts | 1938 |
| 33C | 525.0 | W | 446445 345529 | Old Coal Shafts | 1899 |
| 34C | 526.0 | W | 446445 345547 | Unspecified Disused Shaft | 1966 |
| 35C | 528.0 | W | 446445 345542 | Unspecified Old Shafts | 1938 |
| 36C | 528.0 | W | 446445 345540 | Old Coal Pit | 1880 |
| 37C | 532.0 | W | 446442 345542 | Unspecified Old Shafts | 1949 |
| 38 | 537.0 | SW | 446224 345770 | Old Coal Pit | 1880 |
| Not shown | 538.0 | N | 447063 346663 | Colliery | 1880 |
| 40E | 590.0 | SW | 446524 345029 | Colliery | 1880 |
| 41G | 596.0 | W | 446003 345949 | Colliery | 1880 |
| 42D | 613.0 | NE | 447317 346578 | Colliery | 1949 |
| 43D | 626.0 | NE | 447334 346571 | Colliery | 1938 |
| 44D | 626.0 | NE | 447334 346571 | Colliery | 1921 |
| 45E | 664.0 | SW | 446479 345032 | Unspecified Shafts | 1880 |
| 46 | 670.0 | SW | 446466 345040 | Unspecified Shafts | 1880 |
| 47F | 676.0 | E | 448034 345640 | Colliery | 1880 |
| 48F | 700.0 | E | 448009 345688 | Unspecified Old Shaft | 1949 |
| 49F | 703.0 | E | 448011 345683 | Unspecified Shaft | 1880 |
| 50F | 703.0 | E | 448013 345686 | OLD Coal Shaft | 1899 |
| 51F | 703.0 | E | 448013 345686 | Unspecified Old Shaft | 1938 |

| ID | Distance (m) | Direction | NGR | Details | Date |
|-----------|--------------|-----------|------------------|---------------------------|------|
| 52F | 703.0 | E | 448013 345686 | Unspecified Old Shaft | 1921 |
| Not shown | 721.0 | S | 447063 344718 | Old Coal Pits | 1880 |
| 54G | 739.0 | W | 446002 345969 | Unspecified Shafts | 1880 |
| 55G | 741.0 | W | 445999 345974 | Unspecified Shaft | 1880 |
| 56G | 750.0 | W | 445991 345974 | Unspecified Shafts | 1880 |
| Not shown | 754.0 | S | 447076 344686 | Old Coal Pits | 1880 |
| 58H | 763.0 | SE | 447798 345128 | Unspecified Disused Shaft | 1966 |
| 59H | 769.0 | SE | 447798 345123 | Old Air Shaft | 1921 |
| 60H | 769.0 | SE | 447798 345123 | Old Air Shaft | 1938 |
| 61H | 769.0 | SE | 447798 345123 | Air Shaft | 1899 |
| 62 | 835.0 | SE | 447931 344783 | Opencast Workings | 1971 |

5.2 Coal Mining

This dataset provides information as to whether the study site lies within a known coal mining affected area as defined by the coal authority.

Are there any Coal Mining areas within 1000m of the study site boundary? Yes

The following Coal Mining information provided by the Coal Authority is not represented on Mapping:

| Distance (m) | Direction | Details |
|--------------|-----------|---|
| 0.0 | On Site | The study site is located within the specified search distance of an identified mining area. Further details concerning this can be obtained from the Coal Authority Helpline on 0845 762 6848. |

5.3 Johnson Poole and Bloomer

This dataset provides information as to whether the study site lies within an area where JPB hold information relating to mining.

Are there any JPB Mining areas within 1000m of the study site boundary? Yes

The following information provided by JPB is not represented on mapping: In addition to being located inside an area where The Coal Authority have information on coal mining activities, Johnson Poole & Bloomer (JPB) have information such as mining plans and maps held within their archive of mining activities that have occurred within 1km of this property which may supplement this information. Further details and a quote for services can be obtained by emailing this report to enquiries.gs@jpb.co.uk.

5.4 Non-Coal Mining

This dataset provides information as to whether the study site lies within an area which may have been subject to non-coal historic mining.

Are there any Non-Coal Mining areas within 1000m of the study site boundary? Yes

The following non-coal mining information is provided by the BGS:

| ID | Distance (m) | Direction | Name | Commodity | Assessment of likelihood |
|----|--------------|-----------|---------------|-------------------|--|
| 1 | 0.0 | On Site | Not available | Iron Ore (Bedded) | Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered |
| 2 | 443.0 | S | Not available | Iron Ore (Bedded) | Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered |

5.5 Non-Coal Mining Cavities

This dataset provides information from the Peter Brett Associates (PBA) mining cavities database (compiled for the national study entitled “Review of mining instability in Great Britain, 1990” PBA has also continued adding to this database) on mineral extraction by mining.

Are there any Non-Coal Mining cavities within 1000m of the study site boundary? No

Database searched and no data found.

5.6 Natural Cavities

This dataset provides information based on the Peter Brett Associates natural cavities database. The dataset is made up of points and polygons. Where polygons are used these represent an area in which it is expected the cavities could be found. It does not indicate that cavities are present everywhere within the polygon, and caution should be used in the interpretation of this data.

Are there any Natural Cavities within 1000m of the study site boundary? No

Database searched and no data found.

5.7 Brine Extraction

This data provides information from the Coal Authority issued on behalf of the Cheshire Brine Subsidence Compensation Board.

Are there any Brine Extraction areas within 1000m of the study site boundary? No

Database searched and no data found.

5.8 Gypsum Extraction

This dataset provides information on Gypsum extraction from British Gypsum records.

Are there any Gypsum Extraction areas within 1000m of the study site boundary? No

Database searched and no data found.

5.9 Tin Mining

This dataset provides information on tin mining areas and is derived from tin mining records. This search is based upon postcode information to a sector level..

Are there any Tin Mining areas within 1000m of the study site boundary? No

Database searched and no data found.

5.10 Clay Mining

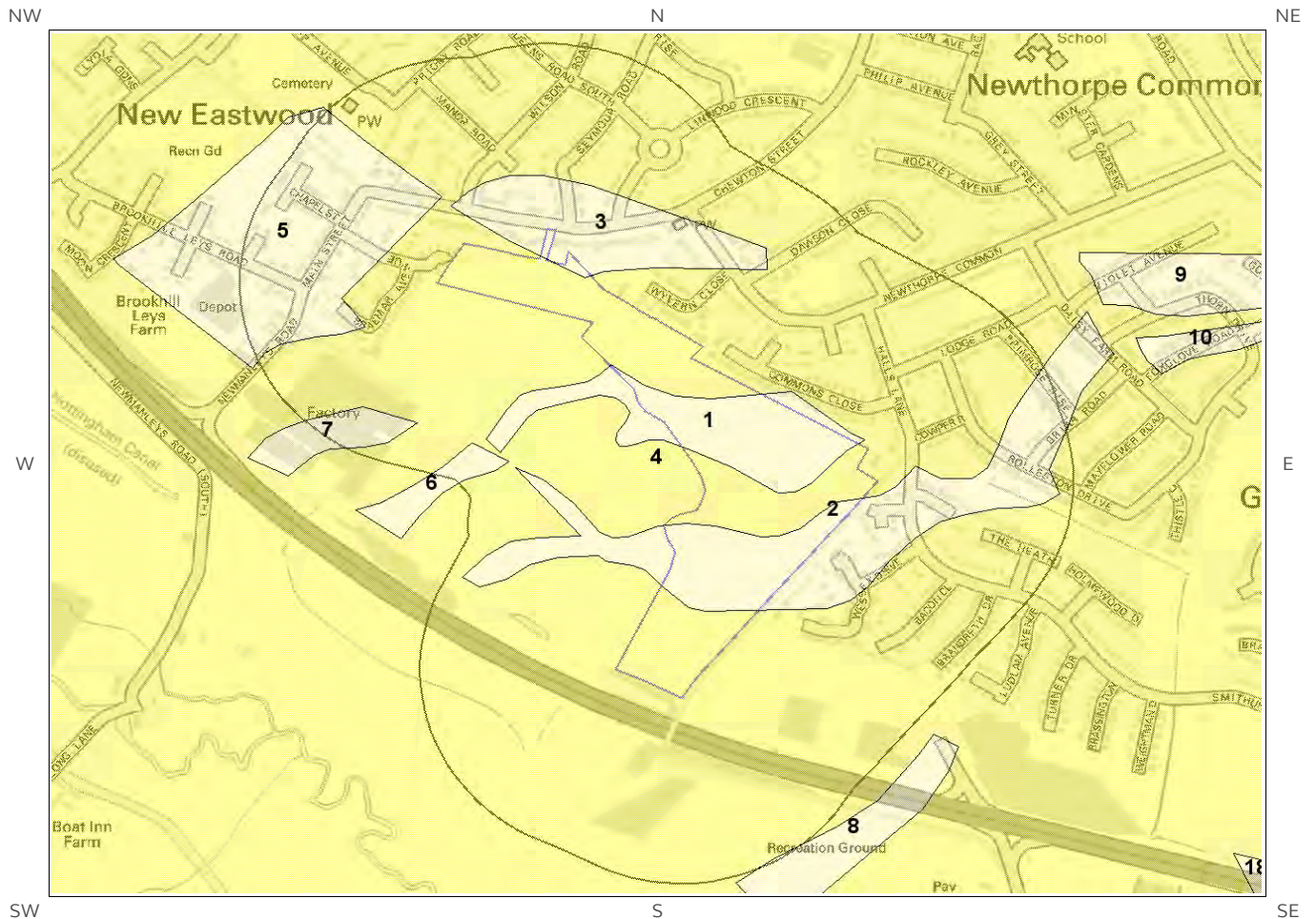
This dataset provides information on Kaolin and Ball Clay mining from relevant mining records.

Are there any Clay Mining areas within 1000m of the study site boundary? No

Database searched and no data found.

6 Natural Ground Subsidence

6.1 Shrink-Swell Clay map



Shrink Swell Clay Legend

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6.2 Landslides map

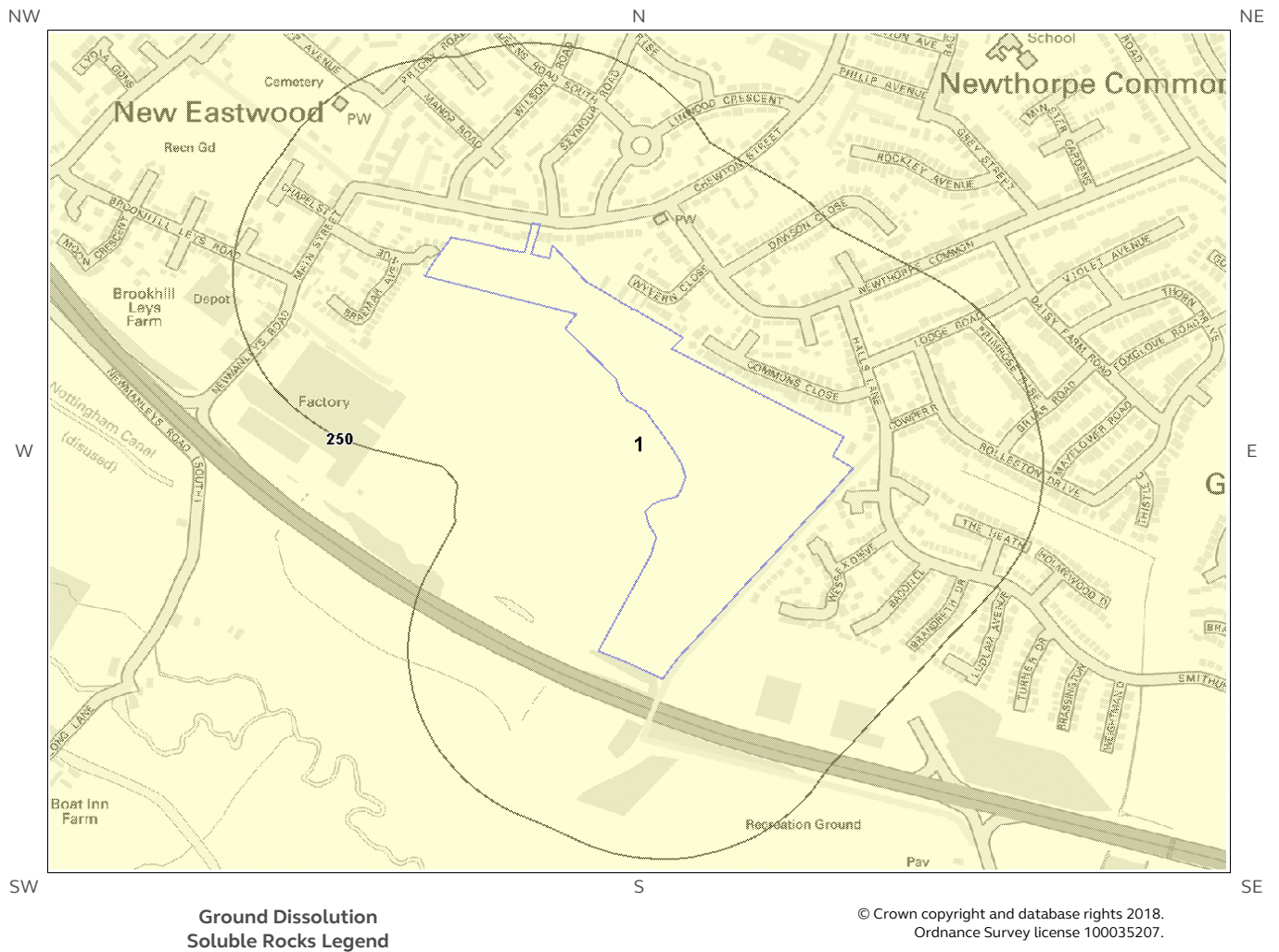


Landslides Legend

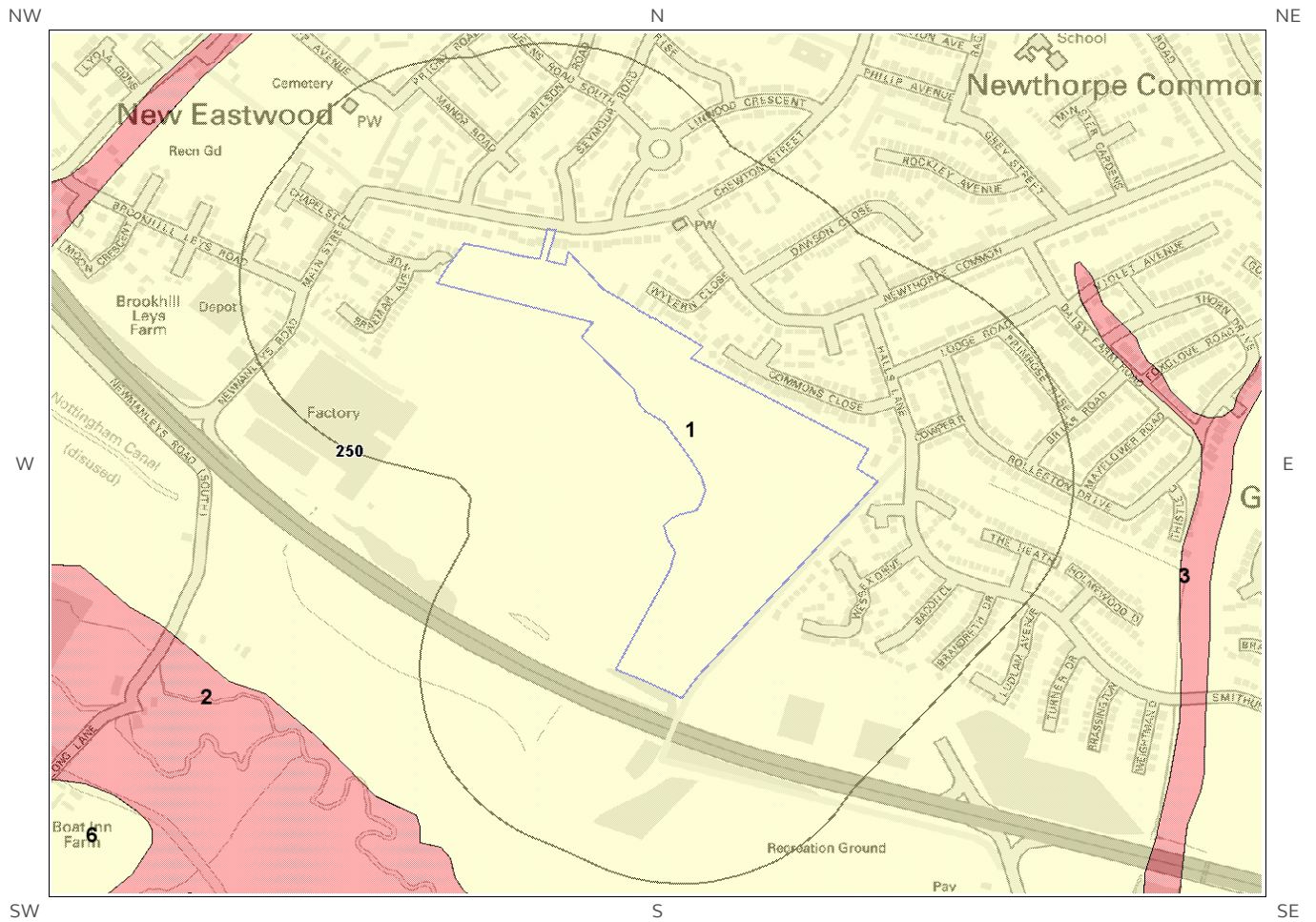
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6.3 Ground Dissolution of Soluble Rocks map



6.4 Compressible Deposits map



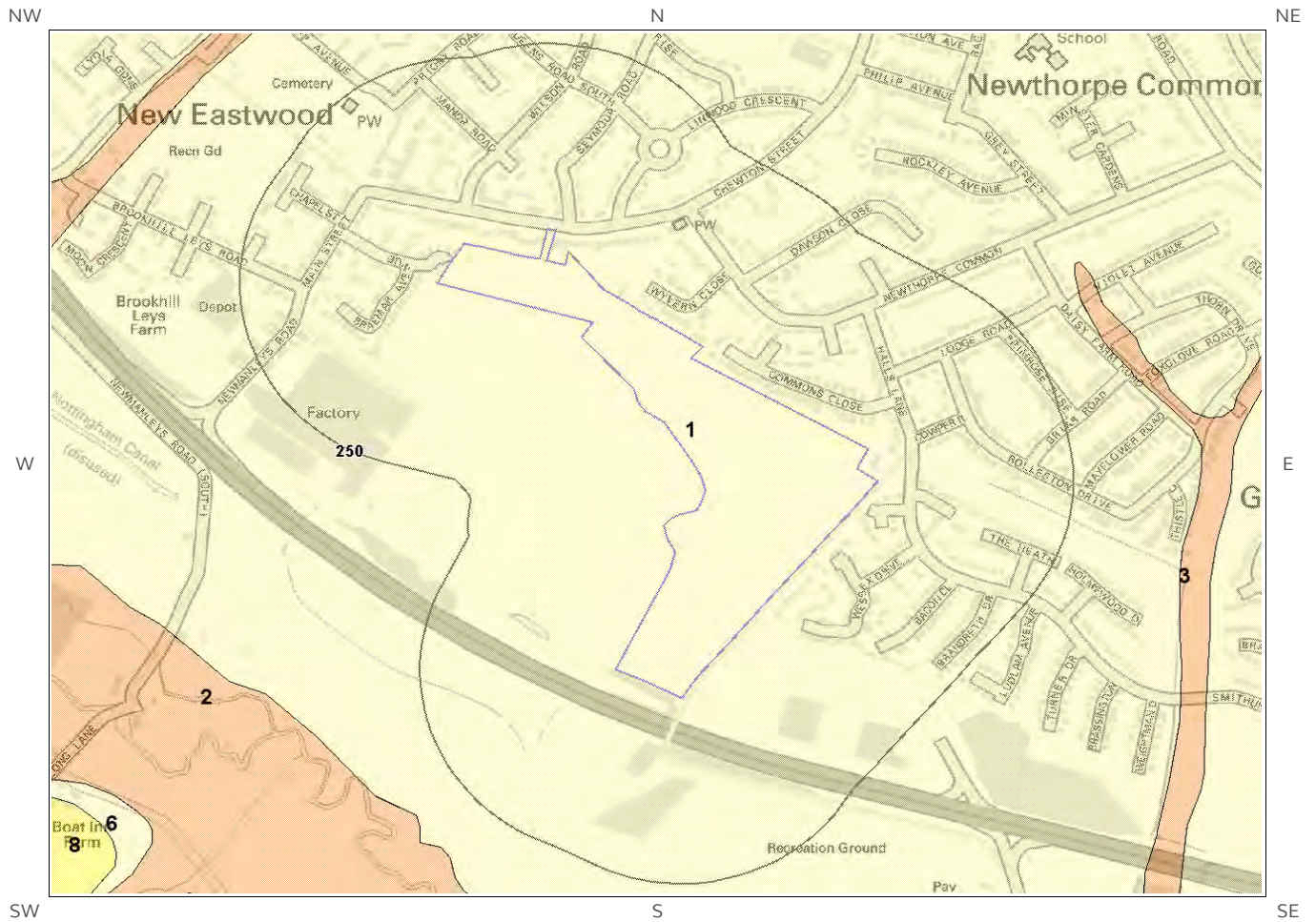
Compressible Deposits Legend

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6.6 Running Sand map



Running Sand Legend

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6 Natural Ground Subsidence

The National Ground Subsidence rating is obtained through the 6 natural ground stability hazard datasets, which are supplied by the British Geological Survey (BGS).

The following GeoSure data represented on the mapping is derived from the BGS Digital Geological map of Great Britain at 1:50,000 scale.

What is the maximum hazard rating of natural subsidence within the study site* boundary? Low

6.1 Shrink-Swell Clays

The following Shrink Swell information provided by the British Geological Survey:

| ID | Distance (m) | Direction | Hazard Rating | Details |
|----|--------------|-----------|---------------|--|
| 1 | 0.0 | On Site | Negligible | Ground conditions predominantly non-plastic. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely likely due to potential problems with shrink-swell clays. |
| 2 | 0.0 | On Site | Negligible | Ground conditions predominantly non-plastic. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely likely due to potential problems with shrink-swell clays. |
| 3 | 0.0 | On Site | Negligible | Ground conditions predominantly non-plastic. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely likely due to potential problems with shrink-swell clays. |
| 4 | 0.0 | On Site | Very Low | Ground conditions predominantly low plasticity. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with shrink-swell clays. |

* This includes an automatically generated 50m buffer zone around the site

6.2 Landslides

The following Landslides information provided by the British Geological Survey:

| ID | Distance (m) | Direction | Hazard Rating | Details |
|----|--------------|-----------|---------------|--|
| 1 | 0.0 | On Site | Very Low | Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides. |
| 2 | 10.0 | SE | Low | Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property - no significant increase in insurance risk due to natural slope instability problems. |
| 3 | 49.0 | W | Low | Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property - no significant increase in insurance risk due to natural slope instability problems. |

6.3 Ground Dissolution of Soluble Rocks

The following Ground Dissolution information provided by the British Geological Survey:

| ID | Distance (m) | Direction | Hazard Rating | Details |
|----|--------------|-----------|---------------|---|
| 1 | 0.0 | On Site | Negligible | Soluble rocks are present, but unlikely to cause problems except under exceptional conditions. No special actions required to avoid problems due to soluble rocks. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with soluble rocks. |

6.4 Compressible Deposits

The following Compressible Deposits information provided by the British Geological Survey:

| ID | Distance (m) | Direction | Hazard Rating | Details |
|----|--------------|-----------|---------------|--|
| 1 | 0.0 | On Site | Negligible | No indicators for compressible deposits identified. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits. |

6.5 Collapsible Deposits

The following Collapsible Rocks information provided by the British Geological Survey:

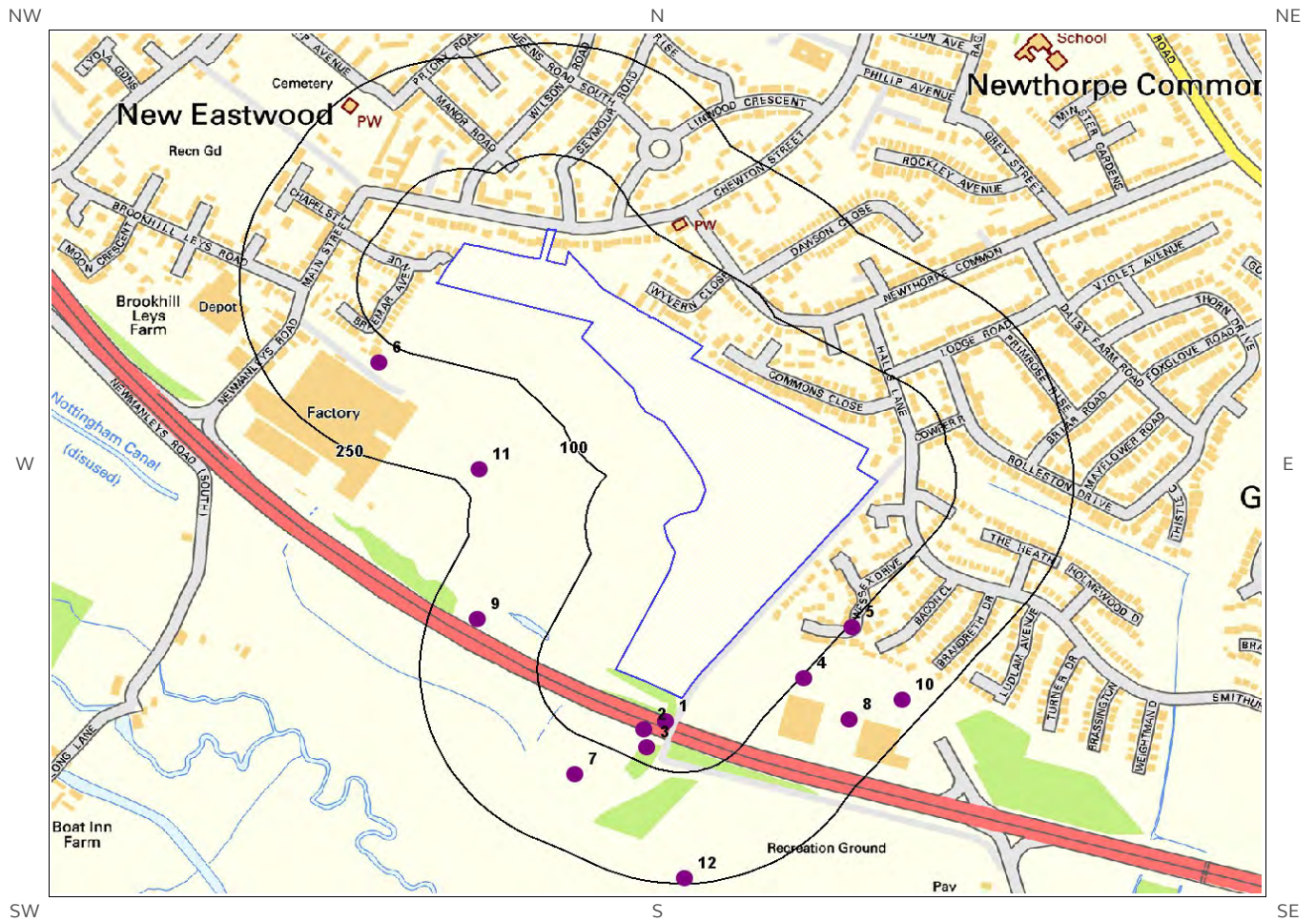
| ID | Distance (m) | Direction | Hazard Rating | Details |
|----|--------------|-----------|---------------|---|
| 1 | 0.0 | On Site | Very Low | Deposits with potential to collapse when loaded and saturated are unlikely to be present. No special ground investigation required or increased construction costs or increased financial risk due to potential problems with collapsible deposits. |

6.6 Running Sands

The following Running Sands information provided by the British Geological Survey:

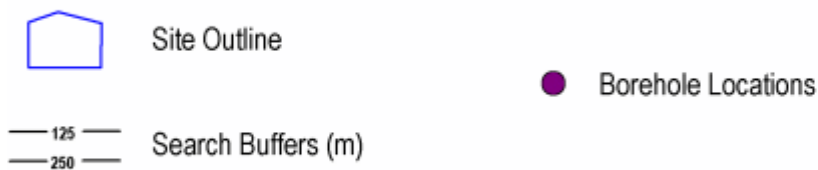
| ID | Distance (m) | Direction | Hazard Rating | Details |
|----|--------------|-----------|---------------|---|
| 1 | 0.0 | On Site | Negligible | No indicators for running sand identified. No special actions required to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand. |

7 Borehole Records map



Borehole Records Legend

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7 Borehole Records

The systematic analysis of data extracted from the BGS Borehole Records database provides the following information.

Records of boreholes within 250m of the study site boundary:

12

| ID | Distance (m) | Direction | NGR | BGS Reference | Drilled Length | Borehole Name |
|----|--------------|-----------|------------------|---------------|----------------|----------------------------|
| 1 | 37.0 | SW | 447036 345412 | SK44NE87 | 13.0 | A610 EASTWOOD-KIMBERLEY 16 |
| 2 | 59.0 | SW | 447008 345401 | SK44NE88 | 6.0 | A610 EASTWOOD-KIMBERLEY 17 |
| 3 | 80.0 | SW | 447012 345376 | SK44NE89 | 12.0 | A610 EASTWOOD-KIMBERLEY 18 |
| 4 | 104.0 | SE | 447212 345469 | SK44NE93 | 19.0 | A610 EASTWOOD-KIMBERLEY 22 |
| 5 | 104.0 | SE | 447274 345539 | SK44NE92 | 12.0 | A610 EASTWOOD-KIMBERLEY 21 |
| 6 | 131.0 | SW | 446669 345895 | SK44NE48 | -1.0 | EASTWOOD 1 |
| 7 | 151.0 | SW | 446920 345340 | SK44NE174 | 3.0 | SHILO NORTH PROPOSED 17 |
| 8 | 184.0 | SE | 447271 345414 | SK44NE90 | 18.0 | A610 EASTWOOD-KIMBERLEY 19 |
| 9 | 189.0 | W | 446795 345549 | SK44NE123 | 3.0 | LANGLEY MILL NOT 4 |
| 10 | 218.0 | SE | 447338 345440 | SK44NE91 | 13.0 | A610 EASTWOOD-KIMBERLEY 20 |
| 11 | 218.0 | SW | 446798 345752 | SK44NE49 | -1.0 | EASTWOOD 2 |
| 12 | 243.0 | S | 447060 345200 | SK44NE177 | 12.0 | SHILO NORTH PROPOSED 20 |

The borehole records are available using the hyperlinks below: Please note that if the donor of the borehole record has requested the information be held as commercial-in-confidence, the additional data will be held separately by the BGS and a formal request must be made for its release.

#1: scans.bgs.ac.uk/sobi_scans/boreholes/222320
#2: scans.bgs.ac.uk/sobi_scans/boreholes/222321
#3: scans.bgs.ac.uk/sobi_scans/boreholes/222322
#4: scans.bgs.ac.uk/sobi_scans/boreholes/222326
#5: scans.bgs.ac.uk/sobi_scans/boreholes/222325
#6: scans.bgs.ac.uk/sobi_scans/boreholes/222281
#7: scans.bgs.ac.uk/sobi_scans/boreholes/222407
#8: scans.bgs.ac.uk/sobi_scans/boreholes/222323
#9: scans.bgs.ac.uk/sobi_scans/boreholes/222356
#10: scans.bgs.ac.uk/sobi_scans/boreholes/222324
#11: scans.bgs.ac.uk/sobi_scans/boreholes/222282
#12: scans.bgs.ac.uk/sobi_scans/boreholes/222410

8 Estimated Background Soil Chemistry

Records of background estimated soil chemistry within 250m of the study site boundary:

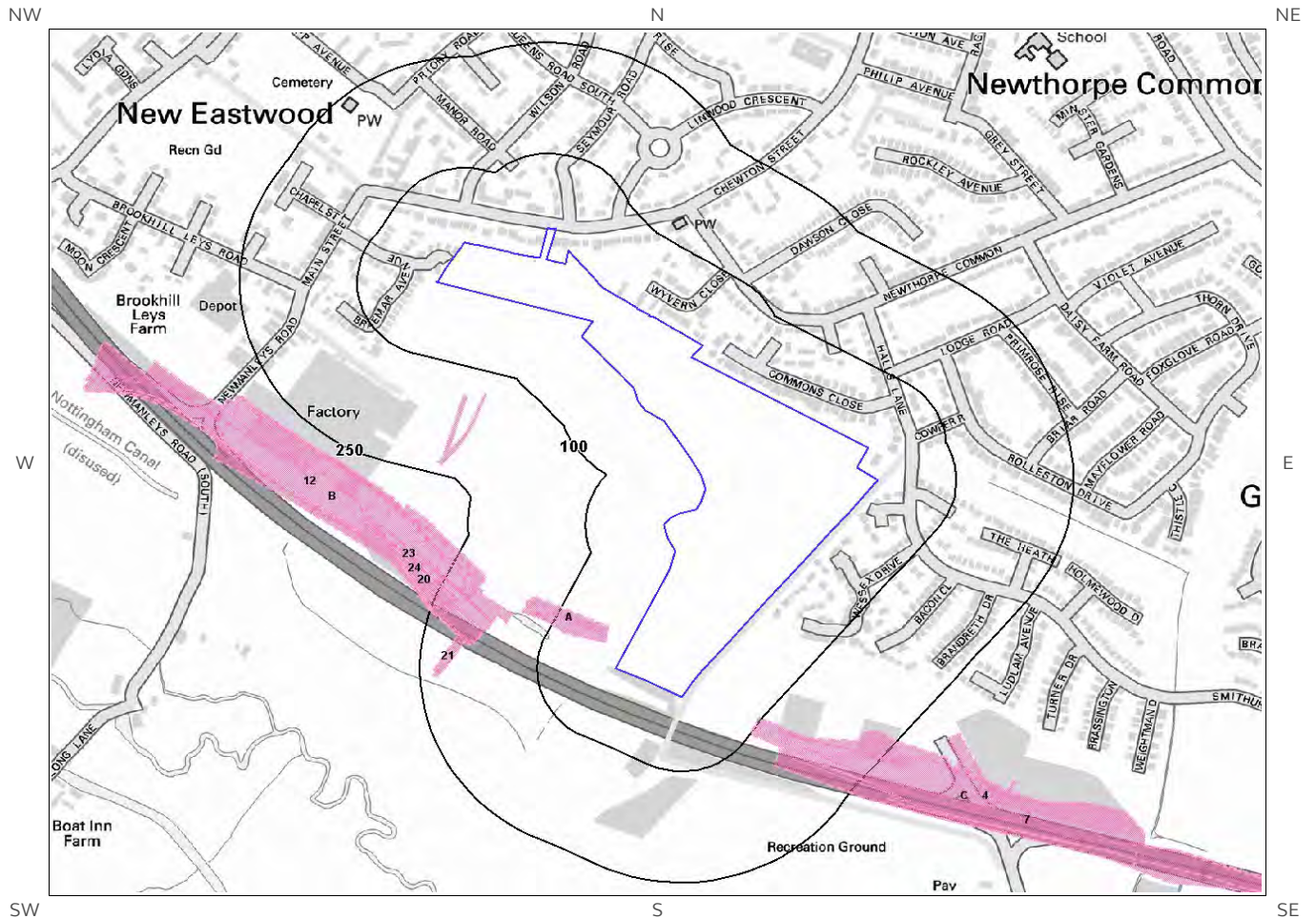
25

For further information on how this data is calculated and limitations upon its use, please see the Groundsure Geo Insight User Guide, available on request.

| Distance (m) | Direction | Sample Type | Arsenic (As) | Cadmium (Cd) | Chromium (Cr) | Nickel (Ni) | Lead (Pb) |
|--------------|-----------|-------------|---------------|--------------|---------------|---------------|------------|
| 0.0 | On Site | RuralSoil | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | RuralSoil | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | RuralSoil | <15 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | RuralSoil | <15 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | RuralSoil | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | RuralSoil | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | RuralSoil | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | RuralSoil | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | RuralSoil | <15 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | RuralSoil | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | RuralSoil | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | RuralSoil | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | RuralSoil | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | RuralSoil | <15 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | RuralSoil | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 0.0 | On Site | RuralSoil | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0 | On Site | RuralSoil | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 1.0 | NE | RuralSoil | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 7.0 | NE | RuralSoil | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 16.0 | SW | RuralSoil | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 26.0 | NW | RuralSoil | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 27.0 | NE | RuralSoil | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 35.0 | W | RuralSoil | <15 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 43.0 | SE | RuralSoil | 15 - 25 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 46.0 | NE | RuralSoil | <15 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |

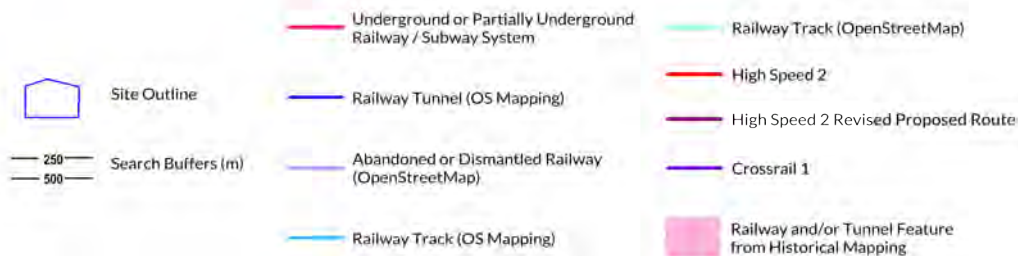
*As this data is based upon underlying 1:50,000 scale geological information, a 50m buffer has been added to the search radius.

9 Railways and Tunnels map



Railways and Tunnels Legend

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9 Railways and Tunnels

9.1 Tunnels

This data is derived from OpenStreetMap and provides information on the possible locations of underground railway systems in the UK - the London Underground, the Tyne & Wear Metro and the Glasgow Subway.

Have any underground railway lines been identified within the study site boundary? No

Have any underground railway lines been identified within 250m of the study site boundary? No

Database searched and no data found.

Any records that have been identified are represented on the Railways and Tunnels map.

This data is derived from Ordnance Survey mapping and provides information on the possible locations of railway tunnels forming part of the UK overground railway network.

Have any other railway tunnels been identified within the site boundary? No

Have any other railway tunnels been identified within 250m of the site boundary? No

Database searched and no data found.

Any records that have been identified are represented on the Railways and Tunnels map.

9.2 Historical Railway and Tunnel Features

This data is derived from Groundsure's unique Historical Land-use Database and contains features relating to tunnels, railway tracks or associated works that have been identified from historical Ordnance Survey mapping.

Have any historical railway or tunnel features been identified within the study site boundary? No

Have any historical railway or tunnel features been identified within 250m of the study site boundary? Yes

| ID | Distance (m) | Direction | NGR | Details | Date |
|-----|--------------|-----------|------------------|-----------------|------|
| 1A | 28 | NW | 446909 345548 | Railway Sidings | 1921 |
| 2A | 28 | NW | 446909 345548 | Railway Sidings | 1938 |
| 13A | 31 | NW | 446906 345541 | Railway Sidings | 1915 |
| 3A | 32 | NW | 446910 345551 | Railway Sidings | 1921 |
| 4 | 97 | SE | 447736 345208 | Railway Sidings | 1949 |
| 14C | 99 | SE | 447392 345316 | Railway Sidings | 1938 |

| ID | Distance (m) | Direction | NGR | Details | Date |
|-----|--------------|-----------|------------------|-------------------------|------|
| 15D | 129 | S | 446785 345805 | Railway Sidings | 1900 |
| 5C | 139 | SE | 447410 345303 | Railway Sidings | 1966 |
| 16D | 139 | S | 446766 345806 | Railway Sidings | 1915 |
| 6B | 151 | NW | 446648 345700 | Railway Sidings | 1921 |
| 17 | 157 | SE | 447248 345367 | Railway Sidings | 1961 |
| 18C | 162 | SE | 447360 345305 | Railway Sidings | 1881 |
| 7 | 163 | SE | 447699 345212 | Railway Sidings | 1899 |
| 19C | 165 | SE | 447337 345314 | Railway Sidings | 1900 |
| 8B | 169 | W | 446629 345692 | Railway Sidings | 1938 |
| 9B | 169 | W | 446629 345692 | Railway Sidings | 1921 |
| 20 | 185 | W | 446719 345601 | Railway Sidings | 1915 |
| 21 | 199 | W | 446757 345495 | Railway Sidings | 1915 |
| 22 | 199 | NW | 446628 345708 | Railway Sidings | 1961 |
| 10B | 203 | NW | 446632 345712 | Railway Sidings | 1880 |
| 11B | 209 | NW | 446627 345703 | Railway Sidings | 1966 |
| 23 | 220 | NW | 446709 345633 | Disused Railway Sidings | 1961 |
| 12 | 224 | NW | 446603 345719 | Railway Sidings | 1949 |
| 24 | 224 | NW | 446704 345625 | Railway Sidings | 1938 |

Any records that have been identified are represented on the Railways and Tunnels map.

9.3 Historical Railways

This data is derived from OpenStreetMap and provides information on the possible alignments of abandoned or dismantled railway lines in proximity to the study site.

Have any historical railway lines been identified within the study site boundary? No

Have any historical railway lines been identified within 250m of the study site boundary? No

Database searched and no data found.

Multiple sections of the same track may be listed in the detail above

Any records that have been identified are represented on the Railways and Tunnels map.

9.4 Active Railways

These datasets are derived from Ordnance Survey mapping and OpenStreetMap and provide information on the possible locations of active railway lines in proximity to the study site.

Have any active railway lines been identified within the study site boundary? No

Have any active railway lines been identified within 250m of the study site boundary? No

Database searched and no data found.

Multiple sections of the same track may be listed in the detail above
Any records that have been identified are represented on the Railways and Tunnels map.

9.5 Railway Projects

These datasets provide information on the location of large scale railway projects High Speed 2 and Crossrail 1 .

Is the study site within 5km of the route of the High Speed 2 rail project? Yes

Is the study site within 500m of the route of the Crossrail 1 rail project? No

Further information on proximity to these routes, the project construction status and associated works can be obtained through the purchase of a Groundsure HS2 and Crossrail 1 Report.

The route data has been digitised from publicly available maps by Groundsure. The route as provided relates to the Crossrail 1 project only, and does not include any details of the Crossrail 2 project, as final details of the route for Crossrail 2 are still under consultation.

Please note that this assessment takes account of both the original Phase 2b proposed route and the amended route proposed in 2016. As the Phase 2b route is still under consultation, Groundsure are providing information on both options until the final route is formally confirmed. Practitioners should take account of this uncertainty when advising clients.

Contact Details

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Fax: 0115 936 3276.
Email: enquiries@bgs.ac.uk
Web: www.bgs.ac.uk



BGS Geological Hazards Reports and general geological enquiries

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www.coal.gov.uk



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Standard Terms and Conditions

Groundsure's Terms and Conditions can be viewed online at this link:
<https://www.groundsure.com/terms-and-conditions-march-2018/>

Appendix D
Proposed Plan

No Proposed Development Plan

Appendix E
Site Photographs



Plate 1 Footpath between the NE field of the site and Commons Close.



Plate 2 View SW from the Footpath to Commons Close.



Plate 3 View SE from the Footpath to Commons Close.



Plate 4 View of the N boundary of the NE field.



Plate 5 View E across the NW field.



Plate 6 View from the S of the access between the NW and central W fields.



Plate 7 Access between the NW and central N fields.



Plate 8 View N across the central N field.



Plate 9 Access between the Central N and NW fields.



Plate 10 Access between the NW field and the landfill.



Plate 11 View NW across the NW field.



Plate 12 Access to the NW field of the site from Braemar Avenue.



Plate 13 View NW across the NW field.



Plate 14 View E of the central E field.



Plate 15 View SE across the central E field.



Plate 16 View SE along the overgrown access lane which crosses the site.



Plate 17 View SE showing the bund blocking the access to the site from Halls Lane to the overgrown access lane.



Plate 18 View S over the SE field of the site.

Appendix F

Assessment Information

Legislation and Terminology

The study is part of the phased approach for dealing with contaminated land and follows the guidance written in the National Planning Policy Framework. Where appropriate the report also falls within the confines of the determination of contaminated land with regards to the guidance laid out in BS10175:2011 The Investigation of Potentially Contaminated Sites and where practical the pertinent legislation contained therein.

Sources of Information for the Desk Study

The sources of information for the desk study can include:

- Geographic Information System Searches from Third Party Providers

Qualitative Risk Assessment

The purpose of the investigation is to develop a firm understanding between the functions of probability (likelihood of risk) and consequence (magnitude of risk relative to harm). Risk is relative to environmental receptors such as human end users, groundwaters, surface waters, ecology and construction workers.

With a linkage between source, pathway and receptor there is the potential for a risk to exist with respect to a hazard. If no linkage is present, then no risk can be posed to sensitive receptors.

The Department for the Environment has categorised risk in the manner shown in **Table 2.1** below. With respect to this categorisation the classification can be attributed as a function of probability and consequence, the relationship is presented in the tables below. After CIRIA Report C552, Contaminated Land Risk Assessment A Guide to Good Practice, 2001

Risk Classification Matrix

| | |
|----------------|--|
| Very high risk | There is a high probability that severe harm could arise to a designated receptor from an identified hazard, OR, there is evidence that severe harm to a designated receptor is currently happening. This risk, if realised, is likely to result in a substantial liability. Urgent investigation (if not undertaken already) and remediation are likely to be required. |
| High risk | Harm is likely to arise to a designated receptor from an identified hazard. Realisation of the risk is likely to present a substantial liability. Urgent investigation (if not undertaken already) is required and remedial works may be necessary in the short-term and are likely over the longer-term. |
| Moderate risk | It is possible that harm could arise to a designated receptor from an identified hazard. However, it is either relatively unlikely that any such harm would be severe, or if any harm were to occur it is more likely that the harm would be relatively mild. Investigation (if not already undertaken) is normally required to clarify the risk and to determine the potential liability. Some remedial works may be required in the longer-term. |
| Low risk | It is possible that harm could arise to a designated receptor from an identified hazard, but it is likely that this harm, if realised, would at worst normally be mild. |
| Very low risk | There is a low possibility that harm could arise to a receptor. In the event of such harm being realised it is not likely to be severe. |

Classification of Risk

| | | Consequence | | | |
|-------------|------------|-------------------|-------------------|-------------------|-------------------|
| | | Severe | Medium | Mild | Minor |
| Probability | High | Very high risk | High Risk | Moderate Risk | Moderate/low risk |
| | Moderate | High risk | Moderate risk | Moderate/low risk | Low risk |
| | Low | Moderate risk | Moderate/low risk | Low risk | Negligible Risk |
| | Negligible | Moderate/low risk | Low risk | Negligible Risk | Negligible Risk |

After CIRIA Report C552, Contaminated Land Risk Assessment A Guide to Good Practice, 2001

Appendix G

Limitations, Terms and Conditions

Limitations and Conditions of the Report

Report Terms and Conditions

This report has been compiled for the sole benefit of the client and no liability is accepted for any reliance placed on it by any other party without the specific written agreement of Kiwa CMT Testing.

The report refers, within the limitations stated, to the condition of the site at the time of the inspections. No warranty is given as to the possibility of future changes in the condition of the site.

This report is based upon a site reconnaissance, historical records, physical investigation (where applicable), information provided by the suppliers in the written report and preliminary discussions with local and statutory authorities. Some of the opinions may be based on professional assessment rather than confirmed data and the information is presented as the best that can be obtained without significant and extensive further research.

The report is prepared and written with respect to the proposed end use only and should not be used in a different context without discussion with Kiwa CMT Testing.

The report is limited to the environmental aspects specifically reported on. There will be no liability accepted for any other aspects, especially gradual or sudden pollution incidents. The opinions expressed herein cannot be absolute due to the limited time and resources imposed by the agreed brief, the nature of the geology and the possibility of unrecorded previous use and abuse of the site and adjacent land.

Limitations

The assessments and interpretation have been made in line with legislation and guidance in force at the time of writing. Third Party information is assumed to be correct.

Although thorough research is carried out Kiwa CMT Testing take no responsibility for conditions that have not been revealed by the investigation, or for information that exists outside of, or within the public domain of which we are unaware. Conditions may exist on site that may have not been revealed by the extensive investigation, Kiwa CMT Testing has made every effort to elucidate the ground conditions on the site and may not be held liable for any lack of accuracy within the supplied information.

The findings within the report that are related to ground contamination and our best professional assessment and opinion is given there are no assurances that these will be accepted by authorities or funds without question as such bodies have unpublished information and potentially more stringent objectives or constraints.

Any diagram or opinion of the possible configuration of the findings is conjectural and given as guidance only. No legal stance is made within the report and any such apparent comment is indicative only.

Appendix H

References

British Standard 10175:2011 + A1 2013 Investigation of Potentially Contaminated Sites – Code of Practice

British Standard 3882:2015 Specification for Topsoil

British Standard 5930:2015 Code of Practice for Ground Investigations

British Standard 8485:2015 Code of practice for the design of protective measures for methane and carbon dioxide ground gases for new buildings

British Standard 8601:2013 Specification for Sub-soil and requirements for use

CL:AIRE (2014) Development of category 4 screening levels (C4SL) for assessment of land affected by contamination

Classification, Labelling and Packaging of Substances and Mixtures Regulation (EC 1272/2008)

1st ATP – Regulation 790/2009/EC

2nd ATP – Regulation 286/2011/EC

3rd ATP – Regulation 618/2012/EU

4th ATP Regulation 487/2013/EU

Correction to 1st ATP – 758/2013/EU

5th ATP – Regulation 944/2013/EU

6th ATP – Regulation 605/2014/EU

7th ATP – Regulation 2015/1221/EU

8th ATP – Regulation 2016/918/EU

9th ATP – Regulation 2016/1179/EU

List of Waste Decision 2002/532/EC

Nathanial, C.P., McCaffrey, C., Gillet, A.G., Ogden, R.C. and Nathanial, J.F. (2015) LQM/CIEH S4ULs for Human Health Risk Assessment. Land Quality Press. Nottingham.

POPs Regulation 2004 – Regulation 850/2004/EC

1st ATP to POPs regulation – Regulation 756/2010/EU

2nd ATP to POPs regulation – Regulation 756/2010/EU

Revised List of Wastes 2014 – Decision 2014/955/EU

Waste Framework Directive (WFD) 2008/98/EC

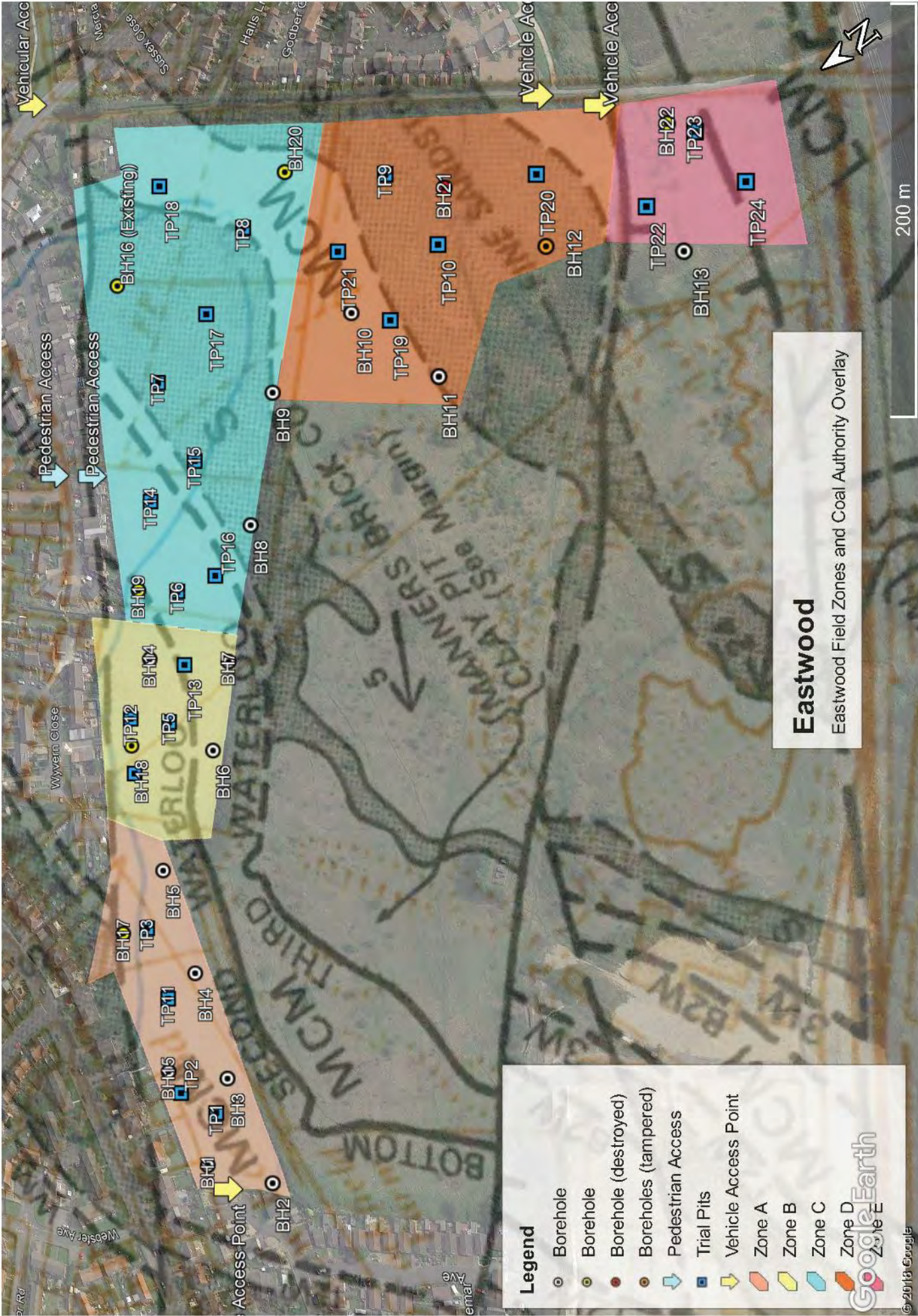
WM3 Environment Agency (2015) Guidance on the classification and assessment of waste (1st Edition 2015)

Appendix I

BH & TP Location Map
















Appendix J

BH & TP Logs

| GROUND INVESTIGATION & PILING LTD Rotary Drillhole Log | | | | | | | | | | Borehole No. BHR2 Sheet 1 of 2 | | |
|---|---|--------------------------------|--|---------------------------------------|---------------------------------|---|-------------|---|-----|-----------------------------------|----------------------|--|
| Level (mAOD): 93.19 | | Date: 04/11/2005 to 04/11/2005 | | Coordinates E: 447225.50 N: 345791.41 | | Location: Eastwood, Nottingham. | |  | | | | |
| Cased (m): 2.00 | | | | Diameter (mm): 101 | | Client: Radleigh Homes Limited/J.S.Bloor (Mansham) Limited. | | | | | | |
| | | | | | | Engineer: Atkins. | | | | | | |
| DESCRIPTION OF STRATA | Legend | Depth (m bgl) | Level (m AOD) | Water Level (m bgl) | Samples/Drill Run (m bgl) | Type | RUN DETAILS | | | | Standpipe Details | |
| | | | | | | | TCR | SCR | RQD | FI | | |
| MADE GROUND FILL (Driller's description). |  | 0.30 | 92.89 | | 0.00 | | | | | | | |
| Brown sandy CLAY (Driller's description). |  | | | | | | | | | | | |
| |  | 6.80 | 86.39 | | | | | | | | | |
| Gray MUDSTONE (Driller's description). |  | | | | | | | | | | | |
| Gray MUDSTONE, yellow bands (Driller's description). |  | 8.30 | 84.89 | | | | | | | | | |
| [Continued on next sheet] | | | | | | | | | | | | |
| SAMPLES / TESTS OH/C Openhole/Cased Drilling TCR Total Core Recovery (%) SCR Solid Core Recovery (%) RQD Rock Quality Designation (%) FI Fracture Index  Water seepage  Water level | | | OTHER INFORMATION 1. Groundwater encountered at 17.00m. 2. 63mm OD standpipe installed, slotted from 20.00m to 14.00m, plain from 14.00m to 0.00m in a gravel filter to 2.00m, bentonite seal to 0.50m and a lockable cover at surface. | | | | | | | | | |
| | | | Logged by: DL Checked by: CEB | | Project No. 13094 | | | | | | | |

| GROUND INVESTIGATION & PILING LTD Rotary Drillhole Log | | | | | | | | | | Borehole No. BHR2 Sheet 2 of 2 | |
|---|-----------|---|------------------|---|--------------------------------|------|-------------|-----|-----|-----------------------------------|----------------------|
| Level (mAOD): 93.19 Date: 04/11/2003 to 04/11/2003 Coordinates E: 447225.50 N: 345791.41 Cased (m): 2.00 Diameter (mm): 101 | | Location: Eastwood, Nottingham. Client: Radleigh Homes Limited/J.S.Bloor (Mansham) Limited. Engineer: Atkins. | |  | | | | | | | |
| DESCRIPTION OF STRATA | Legend | Depth (m bgl) | Level (m AOD) | Water Level (m bgl) | Sample/Drill Run (m bgl) | Type | RUN DETAILS | | | | Standpipe Details |
| | | | | | | | TCR | SCR | RQD | FI | |
| Grey MUDSTONE, yellow bands (Driller's description). | [Pattern] | | | | | | | | | | |
| Grey sandy MUDSTONE (Driller's description). | | 12.00 | 81.19 | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| Black MUDSTONE and COAL (Driller's description). | | 16.50 | 76.69 | | | | | | | | |
| Grey sandy MUDSTONE (Driller's description). | | 17.60 | 75.59 | | | | | | | | |
| Yellow brown sandy MUDSTONE (Driller's description). | | 18.00 | 75.19 | | | | | | | | |

| SAMPLES / TESTS | OTHER INFORMATION |
|--|---|
| OH/C Openhole/Cased Drilling TCR Total Core Recovery (%) SCR Solid Core Recovery (%) RQD Rock Quality Designation (%) FI Fracture Index [Symbol] Water status [Symbol] Water level | <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> Logged by: DL Checked by: CEB </div> <div style="text-align: right; margin-top: 5px;"> Project No. 13054 </div> |

Appendix K
Trial Pit Photographs



Plate 20 TP#1 location and total depth of 2.7m.



Plate 21 TP#1 stratigraphy.



Plate 22 TP#2 location and total depth of 2.5m.



Plate 23 TP#2 stratigraphy.



Plate 24 TP#3 location and total depth of 2.4m.



Plate 25 TP#3 stratigraphy.



Plate 26 TP#4 location and total depth of 2.7m.



Plate 27 TP#4 stratigraphy.



Plate 28 TP#5 location and total depth of 2.4m.



Plate 29 TP#5 stratigraphy.



Plate 30 TP#6 location and total depth of 2.0m.



Plate 31 TP#6 stratigraphy.



Plate 32 TP#7 location and total depth of 2.1m.



Plate 33 TP#7 stratigraphy.



Plate 34 TP#8 location and total depth of 2.1m.



Plate 35 TP#8 stratigraphy.



Plate 36 TP#9 location and total depth of 1.75m.



Plate 37 TP#9 stratigraphy.



Plate 38 TP#10 location and total depth of 2.2m.



Plate 39 TP#10 stratigraphy.



Plate 40 TP#11 location and total depth of 2.0m.



Plate 41 TP#11 stratigraphy.



Plate 42 TP#12 location and total depth of 2.0m.



Plate 43 TP#12 stratigraphy.



Plate 44 TP#13 location and total depth of 2.1m.



Plate 45 TP#13 stratigraphy.



Plate 46 TP#14 location and total depth of 2.1m.



Plate 47 TP#14 stratigraphy.



Plate 48 TP#15 location and total depth of 1.65m.



Plate 49 TP#15 stratigraphy.



Plate 50 TP#16 location and total depth of 1.8m.



Plate 51 TP#16 stratigraphy.



Plate 52 TP#17 location and total depth of 1.9m.



Plate 53 TP#17 stratigraphy.



Plate 54 TP#18 location and total depth of 2.0m.



Plate 55 TP#18 stratigraphy.



Plate 56 TP#19 location and total depth of 2.2m.



Plate 57 TP#19 stratigraphy.



Plate 58 TP#20 location and total depth of 2.3m.



Plate 59 TP#20 stratigraphy.



Plate 60 TP#21 location and total depth of 2.05m.



Plate 61 TP#21 stratigraphy.



Plate 62 TP#22 location and total depth of 2.8m.



Plate 63 TP#22 stratigraphy.



Plate 64 TP#23 location and total depth of 2.5m.



Plate 65 TP#23 stratigraphy.



Plate 66 TP#24 location and total depth of 2.5m.



Plate 67 TP#24 stratigraphy.

Appendix L

Monitoring Results

Gas Monitoring Results

Site: Eastwood

Technician MC & RC

Weather sunny, overcast, warm

Round 1 of 12

| Location | Date & Time | CH ₄ | CO ₂ | O ₂ | Peak CH ₄ | Peak CO ₂ | Min O ₂ | Pressure | relative | internal | CO | H ₂ S |
|----------|------------------|------------------|-----------------|----------------|----------------------|----------------------|--------------------|----------|----------|----------|-------|------------------|
| | | % | % | % | % | % | % | (mbar) | pressure | flow | (ppm) | |
| BH000002 | 16/04/2018 09:27 | 0 | 1.4 | 19.7 | 0 | 1.4 | 19.6 | 999 | -0.01 | <0.1 | 0 | 0 |
| BH000001 | 16/04/2018 09:39 | 0 | 2 | 18.2 | 0 | 2 | 18 | 999 | 0 | <0.1 | 0 | 0 |
| BH000003 | 16/04/2018 09:54 | 0 | 0.2 | 11.6 | 0 | 0.2 | 11.5 | 999 | -1.99 | -10.4 | 0 | 0 |
| BH000015 | 16/04/2018 10:05 | 0 | 0 | 20.6 | 0 | 0.1 | 19 | 999 | 0.07 | <0.1 | 0 | 0 |
| BH000004 | 16/04/2018 10:20 | 0 | 0.6 | 20.5 | 0 | 0.6 | 20.1 | 999 | 0.18 | -4.2 | 0 | 0 |
| BH000017 | 16/04/2018 10:29 | 0 | 0.1 | 21.1 | 0 | 0.1 | 20.5 | 1000 | 0.01 | <0.1 | 0 | 0 |
| BH000005 | 16/04/2018 10:40 | 0 | 1.6 | 19 | 0 | 1.6 | 19 | 999 | 0.05 | <0.1 | 0 | 0 |
| BH000018 | 16/04/2018 11:06 | 0 | 0.6 | 20.4 | 0 | 0.6 | 20.3 | 1000 | 0.02 | <0.1 | 0 | 0 |
| BH000014 | 16/04/2018 11:15 | 0 | 0 | 15.7 | 0 | 0 | 15.6 | 1000 | 0.27 | <0.1 | 0 | 0 |
| BH000006 | 16/04/2018 11:22 | Borehole Flooded | | | | | | | | | | |
| BH000007 | 16/04/2018 11:28 | 85.4 | 4 | 0.7 | 86.8 | 4 | 0.4 | 1000 | 0.02 | <0.1 | 0 | 0 |
| BH000008 | 16/04/2018 11:39 | 0 | 0 | 20.1 | 0 | 0 | 18.5 | 1000 | 0.02 | <0.1 | 0 | 0 |
| BH000019 | 16/04/2018 11:50 | 0 | 0.2 | 20.8 | 0 | 0.2 | 20.4 | 1000 | -0.01 | <0.1 | 0 | 0 |
| BH000016 | 16/04/2018 12:09 | 0 | 0.9 | 20.5 | 0 | 0.9 | 20.2 | 1000 | -0.06 | <0.1 | 0 | 0 |
| BH000020 | 16/04/2018 12:17 | 0 | 3.3 | 17.2 | 0 | 3.3 | 17.1 | 1000 | -0.01 | <0.1 | 10 | 0 |
| BH000009 | 16/04/2018 12:25 | 0 | 0.7 | 19.4 | 0 | 0.7 | 18.9 | 1001 | 0.04 | <0.1 | 10 | 0 |
| BH000010 | 16/04/2018 12:40 | 0 | 0.1 | 21 | 0 | 0.1 | 20.2 | 1001 | 0 | <0.1 | 5 | 0 |
| BH000011 | 16/04/2018 12:54 | 0 | 0 | 20.4 | 0 | 0 | 20.3 | 1001 | 3.98 | <0.1 | 8 | 0 |
| BH000021 | 16/04/2018 13:03 | 0 | 0 | 20.9 | 0 | 0 | 20.7 | 1002 | -0.08 | <0.1 | 15 | 0 |
| BH000012 | 16/04/2018 13:13 | 0 | 1.1 | 19.9 | 0 | 1.1 | 19.9 | 1002 | -0.04 | <0.1 | 9 | 0 |
| BH000022 | 16/04/2018 13:24 | 0 | 0.5 | 20.5 | 0 | 0.5 | 20.4 | 1002 | -0.06 | <0.1 | 2 | 0 |
| BH000013 | 16/04/2018 13:36 | 0 | 0 | 21 | 0 | 0 | 20.6 | 1003 | 0.03 | <0.1 | 0 | 0 |

Notes:

Boreholes 3 and 4 note negative flow rates and these were noticeable due to evidence of suction on the borehole bung.

Water Monitoring Results

Site: Eastwood

Technician MC & RC

Weather sunny, overcast, warm

Round 1 of 12

| Location | Date & Time | Borehole | Water | Notes |
|----------|------------------|-----------|-----------|--|
| | | Depth (m) | Depth (m) | |
| BH000001 | 16/04/2018 09:27 | 3.79 | 1.64 | negative flow rate noted by suction on the bung |
| BH000002 | 16/04/2018 09:39 | 3.75 | 3.44 | |
| BH000003 | 16/04/2018 09:54 | 3.73 | 2.52 | |
| BH000015 | 16/04/2018 10:05 | 3.95 | 3.91 | |
| BH000004 | 16/04/2018 10:20 | 4.41 | 1.30 | negative flow rate noted by slight suction on the bung |
| BH000017 | 16/04/2018 10:29 | 3.71 | 0.90 | |
| BH000005 | 16/04/2018 10:40 | 3.90 | 1.86 | |
| BH000018 | 16/04/2018 11:06 | 3.90 | 1.30 | |
| BH000014 | 16/04/2018 11:15 | 3.47 | 0.85 | Borehole Flooded |
| BH000006 | 16/04/2018 11:22 | | | |
| BH000007 | 16/04/2018 11:28 | 2.19 | 1.86 | |
| BH000008 | 16/04/2018 11:39 | 1.48 | 1.25 | |
| BH000019 | 16/04/2018 11:50 | 0.23 | 0.07 | Existing borehole |
| BH000016 | 16/04/2018 12:09 | 18.47 | 12.39 | |
| BH000020 | 16/04/2018 12:17 | 2.77 | dry | |
| BH000009 | 16/04/2018 12:25 | 2.80 | dry | |
| BH000010 | 16/04/2018 12:40 | 3.61 | dry | |
| BH000011 | 16/04/2018 12:54 | 2.74 | 0.80 | |
| BH000021 | 16/04/2018 13:03 | 2.71 | 0.78 | |
| BH000012 | 16/04/2018 13:13 | 3.30 | 1.11 | |
| BH000022 | 16/04/2018 13:24 | 3.20 | 1.64 | |
| BH000013 | 16/04/2018 13:36 | 4.03 | 0.44 | |

Notes:

Boreholes 3 and 4 note negative flow rates and these were noticeable due to evidence of suction on the borehole bung.

Gas Monitoring Results

Site: Eastwood

Technician MC & SJ

Weather sunny, overcast, warm

Round 2 of 12

| Location | Date & Time | CH ₄ | CO ₂ | O ₂ | Peak CH ₄ | Peak CO ₂ | Min O ₂ | Pressure | relative | internal | CO | H ₂ S |
|----------|---------------------------------|-----------------|-----------------|----------------|----------------------|----------------------|--------------------|----------|----------|----------|-------|------------------|
| | | % | % | % | % | % | % | (mbar) | pressure | flow | (ppm) | |
| BH000002 | 04/05/2018 11:13 | 0 | 3.9 | 5.3 | 0 | 4 | 5.1 | 1012 | 0 | <0.1 | 0 | 0 |
| BH000001 | 04/05/2018 10:51 | 0 | 3.3 | 16.3 | 0 | 3.4 | 16.2 | 1012 | -0.54 | -9.5 | 0 | 0 |
| BH000003 | 04/05/2018 11:37 | 0 | 2.1 | 4.8 | 0 | 2.1 | 4.8 | 1012 | -0.32 | -6.4 | 0 | 0 |
| BH000015 | 04/05/2018 11:54 | 0 | 0 | 19.4 | 0 | 0 | 18.8 | 1013 | 0 | <0.1 | 0 | 0 |
| BH000004 | 04/05/2018 12:02 | 0 | 4.4 | 4.5 | 0 | 4.3 | 4.5 | 1013 | -0.01 | <0.1 | 0 | 0 |
| BH000017 | 04/05/2018 12:09 | 0 | 1.8 | 19.1 | 0 | 1.8 | 19.1 | 1013 | -0.02 | <0.1 | 0 | 0 |
| BH000005 | 04/05/2018 12:15 | 0 | 1.2 | 19.3 | 0 | 1.6 | 18.5 | 1014 | -0.02 | <0.1 | 2 | 0 |
| BH000018 | 04/05/2018 12:32 | 0 | 0.6 | 20.4 | 0 | 0.6 | 20.3 | 1000 | 0.02 | <0.1 | 0 | 0 |
| BH000014 | 04/05/2018 12:39 | 0 | 0 | 15.7 | 0 | 0 | 15.6 | 1000 | 0.27 | <0.1 | 0 | 0 |
| BH000006 | 04/05/2018 12:26 | 0 | 0 | 20.7 | 0 | 0 | 20.3 | 1014 | 0 | <0.1 | 4 | |
| BH000007 | 04/05/2018 12:51 | 63.7 | 3.6 | 3.6 | 65.5 | 3.7 | 3.5 | 1014 | -0.06 | <0.1 | 0 | 0 |
| BH000008 | 04/05/2018 13:00 | 0 | 1 | 19.1 | 0.1 | 1 | 19 | 1014 | -0.06 | <0.1 | 0 | 0 |
| BH000019 | 04/05/2018 13:17 | 0 | 0.7 | 19.9 | 0 | 0.7 | 19.9 | 1014 | 2.82 | <0.1 | 0 | 0 |
| BH000016 | 04/05/2018 13:25 | 0 | 0.9 | 19.8 | 0 | 0.9 | 19.8 | 1014 | 0.01 | <0.1 | 4 | 0 |
| BH000020 | 04/05/2018 13:34 | 0 | 3.5 | 16.4 | 0 | 3.5 | 16.4 | 1013 | 1.42 | <0.1 | 15 | 0 |
| BH000009 | 04/05/2018 13:40 | 0 | 0.9 | 19.1 | 0 | 0.9 | 19 | 1014 | -0.09 | <0.1 | 13 | 0 |
| BH000010 | 04/05/2018 13:49 | 0 | 1 | 19.2 | 0 | 1.3 | 18.6 | 1014 | -0.1 | <0.1 | 9 | 0 |
| BH000011 | 04/05/2018 13:54 | 0 | 1.1 | 19.8 | 0 | 1.1 | 19.8 | 1014 | -0.11 | <0.1 | 7 | 0 |
| BH000021 | Borehole Destroyed by Vandalism | | | | | | | | | | | |
| BH000012 | 04/05/2018 14:07 | 0 | 2 | 18.9 | 0 | 2 | 18.9 | 1014 | -0.11 | <0.1 | 16 | 0 |
| BH000022 | 04/05/2018 14:16 | 0 | 0.8 | 20.6 | 0 | 0.8 | 20.6 | 1015 | -0.12 | <0.1 | 9 | 0 |
| BH000013 | 04/05/2018 14:25 | 0 | 0 | 21.2 | 0 | 0 | 20.9 | 1015 | -0.06 | -7 | 6 | 0 |

Notes:

Boreholes 21 destroyed; Borehole 12 tampered with.

Water Monitoring Results

| | |
|-------|----------|
| Site: | Eastwood |
|-------|----------|

| | |
|------------|---------|
| Technician | MC & SJ |
|------------|---------|

| | |
|----------------|-----------------------|
| Weather | sunny, overcast, warm |
|----------------|-----------------------|

Round 2 of 12

| Location | Date & Time | Borehole | Water | Notes |
|----------|---------------------------------|-----------|-----------|---|
| | | Depth (m) | Depth (m) | |
| BH000002 | 04/05/2018 11:13 | 3.79 | 2.17 | negative flow rate noted by suction on the bung |
| BH000001 | 04/05/2018 10:51 | 3.75 | 0.43 | |
| BH000003 | 04/05/2018 11:37 | 3.73 | 2.73 | negative flow rate noted by suction on the bung |
| BH000015 | 04/05/2018 11:54 | 3.95 | 3.80 | |
| BH000004 | 04/05/2018 12:02 | 4.41 | 2.87 | |
| BH000017 | 04/05/2018 12:09 | 3.71 | 1.79 | |
| BH000005 | 04/05/2018 12:15 | 3.90 | 2.55 | |
| BH000018 | 04/05/2018 12:32 | 3.90 | 1.45 | |
| BH000014 | 04/05/2018 12:39 | 3.47 | 1.48 | |
| BH000006 | 04/05/2018 12:26 | 3.69 | 0.34 | |
| BH000007 | 04/05/2018 12:51 | 2.19 | 3.86 | |
| BH000008 | 04/05/2018 13:00 | 1.48 | 3.79 | |
| BH000019 | 04/05/2018 13:17 | 0.23 | 3.83 | |
| BH000016 | 04/05/2018 13:25 | 18.47 | 12.78 | Existing borehole |
| BH000020 | 04/05/2018 13:34 | 2.77 | dry | |
| BH000009 | 04/05/2018 13:40 | 2.80 | dry | |
| BH000010 | 04/05/2018 13:49 | 3.61 | dry | |
| BH000011 | 04/05/2018 13:54 | 2.74 | 2.00 | |
| BH000021 | Borehole Destroyed by Vandalism | | | Borehole Destroyed by Vandalism |
| BH000012 | 04/05/2018 14:07 | 3.30 | 1.42 | Borehole Tampered with |
| BH000022 | 04/05/2018 14:16 | 3.20 | 1.60 | |
| BH000013 | 04/05/2018 14:25 | 4.03 | 0.74 | |

| |
|---|
| Notes: Boreholes 21 destroyed; Borehole 12 tampered with. |
|---|

Boreholes 21 destroyed; Borehole 12 tampered with.

Gas Monitoring Results

Site: Eastwood

Technician MC & JB

Weather sunny, warm

Round 3 of 12

| Location | Date & Time | CH ₄ | CO ₂ | O ₂ | Peak CH ₄ | Peak CO ₂ | Min O ₂ | Pressure | relative | internal | CO | H ₂ S |
|----------|---------------------------------|-----------------|-----------------|----------------|----------------------|----------------------|--------------------|----------|----------|----------|-------|------------------|
| | | % | % | % | % | % | % | (mbar) | pressure | flow | (ppm) | |
| BH000002 | 18/05/2018 10:02 | 0.1 | 0.9 | 20 | 0.1 | 0.9 | 19.8 | 1015 | 3.79 | <0.1 | 0 | 0 |
| BH000001 | 18/05/2018 9:47 | 0.1 | 4 | 15.2 | 0.1 | 4 | 15.1 | 1015 | 0 | <0.1 | 0 | 0 |
| BH000003 | 18/05/2018 10:12 | 0 | 4.1 | 1.7 | 0.1 | 4.1 | 1.5 | 1016 | -0.01 | <0.1 | 0 | 0 |
| BH000015 | 18/05/2018 10:21 | 0 | 0.2 | 19.5 | 0 | 0.2 | 17.3 | 1016 | -0.03 | <0.1 | 0 | 0 |
| BH000004 | 18/05/2018 10:31 | 0 | 3.9 | 11 | 0 | 3.9 | 10.9 | 1015 | -0.02 | <0.1 | 0 | 0 |
| BH000017 | 18/05/2018 10:41 | 0 | 1.8 | 19.7 | 0 | 1.8 | 19.6 | 1015 | 3.98 | <0.1 | 0 | 0 |
| BH000005 | 18/05/2018 10:49 | 0 | 1.7 | 19.1 | 0 | 1.7 | 19.1 | 1016 | -0.04 | <0.1 | 3 | 0 |
| BH000018 | 18/05/2018 11:11 | 0 | 1.3 | 20.1 | 0 | 1.3 | 20.1 | 1016 | 1.13 | <0.1 | 2 | 0 |
| BH000014 | 18/05/2018 11:19 | 0 | 0.6 | 13.9 | 0 | 0.6 | 13.9 | 1016 | -0.06 | <0.1 | 0 | 0 |
| BH000006 | 18/05/2018 11:00 | 0 | 4 | 18 | 0 | 4 | 18 | 1016 | 3.9 | <0.1 | 6 | 0 |
| BH000007 | 18/05/2018 11:26 | 17.6 | 1.7 | 14.7 | 17.6 | 1.9 | 14.3 | 1017 | -0.1 | <0.1 | 0 | 0 |
| BH000008 | 18/05/2018 11:48 | 0 | 2.1 | 17.6 | 0.3 | 2.1 | 17.6 | 1018 | -0.1 | <0.1 | 0 | 0 |
| BH000019 | 18/05/2018 11:54 | 0 | 0.3 | 20.3 | 0 | 2.1 | 17.4 | 1017 | 0.89 | <0.1 | 1 | 0 |
| BH000016 | 18/05/2018 12:08 | 0 | 0 | 21.3 | 0 | 0 | 20.9 | 1016 | -0.13 | 0 | 2 | 0 |
| BH000020 | 18/05/2018 12:23 | 0 | 0 | 21.1 | 0 | 0 | 20.9 | 1016 | -0.14 | <0.1 | 0 | 0 |
| BH000009 | 18/05/2018 12:34 | 0 | 1 | 20.4 | 0 | 1 | 20.5 | 1017 | -0.14 | <0.1 | 0 | 0 |
| BH000010 | 18/05/2018 12:42 | 0 | 0.3 | 20.9 | 0 | 0.5 | 20.5 | 1017 | -0.16 | <0.1 | 1 | 0 |
| BH000011 | 18/05/2018 13:03 | 0 | 0.8 | 20.7 | 0 | 0.8 | 20.8 | 1017 | -0.16 | 0 | 0 | 0 |
| BH000021 | Borehole Destroyed by Vandalism | | | | | | | | | | | |
| BH000012 | 18/05/2018 13:17 | 0 | 1.7 | 19.8 | 0 | 2 | 19.6 | 1017 | -0.15 | <0.1 | 0 | 0 |
| BH000022 | 18/05/2018 13:26 | 0 | 0.4 | 20.9 | 0 | 1.7 | 19.6 | 1018 | 0.25 | <0.1 | 0 | 0 |
| BH000013 | 18/05/2018 13:36 | 0 | 0 | 21.4 | 0 | 0 | 20.5 | 1018 | -0.18 | -1.5 | 1 | 0 |

Notes:

Boreholes 21 destroyed; Boreholes 10, 11, 12 & 20 tampered with.

Water Monitoring Results

Site: Eastwood

Technician MC & JB

Weather sunny, warm

Round 3 of 12

| Location | Date & Time | Borehole | Water | Notes |
|----------|---------------------------------|-----------|-----------|---|
| | | Depth (m) | Depth (m) | |
| BH000002 | 18/05/2018 10:02 | 3.79 | 2.35 | |
| BH000001 | 18/05/2018 9:47 | 3.75 | 3.37 | |
| BH000003 | 18/05/2018 10:12 | 3.73 | 3.46 | |
| BH000015 | 18/05/2018 10:21 | 3.95 | Dry | |
| BH000004 | 18/05/2018 10:31 | 4.41 | 4.02 | |
| BH000017 | 18/05/2018 10:41 | 3.71 | 2.33 | |
| BH000005 | 18/05/2018 10:49 | 3.90 | 3.65 | |
| BH000018 | 18/05/2018 11:11 | 3.90 | 1.56 | |
| BH000014 | 18/05/2018 11:19 | 3.47 | 2.39 | |
| BH000006 | 18/05/2018 11:00 | 3.69 | 1.86 | |
| BH000007 | 18/05/2018 11:26 | 2.19 | 2.67 | |
| BH000008 | 18/05/2018 11:48 | 1.48 | 1.63 | |
| BH000019 | 18/05/2018 11:54 | 0.23 | 0.61 | |
| BH000016 | 18/05/2018 12:08 | 18.47 | 12.81 | Existing borehole |
| BH000020 | 18/05/2018 12:23 | 2.77 | Dry | Borehole Tampered with |
| BH000009 | 18/05/2018 12:34 | 2.80 | Dry | |
| BH000010 | 18/05/2018 12:42 | 3.61 | Dry | Borehole Tampered with |
| BH000011 | 18/05/2018 13:03 | 2.74 | 2.22 | Borehole Tampered with |
| BH000021 | Borehole Destroyed by Vandalism | | | Borehole Destroyed by Vandalism |
| BH000012 | 18/05/2018 13:17 | 3.30 | 1.73 | Borehole Tampered with |
| BH000022 | 18/05/2018 13:26 | 3.20 | 1.60 | |
| BH000013 | 18/05/2018 13:36 | 4.03 | 1.04 | negative flow rate noted by suction on the bung |

Notes:

Boreholes 21 destroyed; Boreholes 10, 11, 12 & 20 tampered with.

Gas Monitoring Results

Site: Eastwood

Technician MC & JB

Weather sunny, warm

Round 4 of 12

| Location | Date & Time | CH ₄ | CO ₂ | O ₂ | Peak CH ₄ | Peak CO ₂ | Min O ₂ | Pressure | relative | internal | CO | H ₂ S |
|----------|---------------------------------|-----------------|-----------------|----------------|----------------------|----------------------|--------------------|----------|----------|----------|-------|------------------|
| | | % | % | % | % | % | % | (mbar) | pressure | flow | (ppm) | |
| BH000002 | 01/06/2018 9:33 | 0 | 1.7 | 18.4 | 0.1 | 1.8 | 18.2 | 1008 | -0.05 | 0.01 | 0 | 0 |
| BH000001 | 01/06/2018 9:26 | 0.1 | 0.5 | 20.6 | 0.1 | 0.5 | 20.5 | 1008 | -0.06 | 0.01 | 0 | 0 |
| BH000003 | 01/06/2018 9:41 | 0 | 5.2 | 0.4 | 0.1 | 5.2 | 0.3 | 1008 | -0.05 | 0.01 | 0 | 0 |
| BH000015 | 01/06/2018 9:47 | 0 | 0.5 | 20.3 | 0.1 | 0.5 | 18 | 1008 | -0.01 | 0.01 | 0 | 0 |
| BH000004 | 01/06/2018 9:55 | 0 | 4.2 | 15.9 | 0 | 4.1 | 15.7 | 1008 | -0.02 | 0.01 | 0 | 0 |
| BH000017 | 01/06/2018 10:03 | 0 | 1.7 | 19.8 | 0.1 | 1.7 | 19.8 | 1008 | -0.02 | -0.01 | 0 | 0 |
| BH000005 | 01/06/2018 10:10 | 0 | 2.7 | 18.7 | 0 | 2.7 | 18.3 | 1008 | -0.01 | 0.01 | 2 | 0 |
| BH000018 | 01/06/2018 10:26 | 0 | 1.1 | 20.5 | 0 | 1.1 | 20.3 | 1009 | 0.03 | -0.01 | 2 | 0 |
| BH000014 | 01/06/2018 10:32 | 0 | 1.3 | 17.7 | 0 | 1.3 | 17.6 | 1008 | 0 | -0.01 | 1 | 0 |
| BH000006 | 01/06/2018 10:17 | 0 | 0 | 21.2 | 0 | 0 | 20.4 | 1008 | 0.04 | 0.01 | 4 | 0 |
| BH000007 | 01/06/2018 10:42 | 14.9 | 1.1 | 16.8 | 15.1 | 1.2 | 16.7 | 1009 | -0.17 | 0 | 0 | 0 |
| BH000008 | 01/06/2018 10:56 | 0 | 1.8 | 19.4 | 0.1 | 1.7 | 19.3 | 1009 | -0.05 | -0.01 | 0 | 0 |
| BH000019 | 01/06/2018 11:05 | 0 | 0.5 | 20.3 | 0 | 0.4 | 20.2 | 1009 | -0.03 | -0.21 | 1 | 0 |
| BH000016 | 01/06/2018 11:14 | 0 | 0.9 | 20.2 | 0 | 0.9 | 20 | 1009 | 0 | -2.1 | 6 | 0 |
| BH000020 | 01/06/2018 11:25 | 0 | 2 | 19.8 | 0 | 2 | 19.8 | 1008 | -0.01 | -0.01 | 5 | 0 |
| BH000009 | 01/06/2018 11:33 | 0 | 1.1 | 20.5 | 0 | 1.1 | 20.4 | 1009 | -0.02 | 0 | 3 | 0 |
| BH000010 | 01/06/2018 11:42 | 0 | 2.5 | 20.1 | 0 | 2.5 | 20.1 | 1009 | -0.08 | 0 | 2 | 0 |
| BH000011 | 01/06/2018 11:49 | 0 | 1.5 | 19.9 | 0 | 1.5 | 19.9 | 1009 | -0.09 | 0 | 1 | 0 |
| BH000021 | Borehole Destroyed by Vandalism | | | | | | | | | | | |
| BH000012 | 01/06/2018 11:57 | 0 | 2.3 | 19.2 | 0 | 2.4 | 19 | 1010 | -0.04 | 0 | 0 | 0 |
| BH000022 | 01/06/2018 12:06 | 0 | 0.5 | 20.8 | 0 | 0.5 | 20.6 | 1010 | -0.04 | 0 | 0 | 0 |
| BH000013 | 01/06/2018 12:14 | 0 | 0 | 21.3 | 0 | 0 | 20.8 | 1011 | -0.07 | -5.4 | 0 | 0 |

Notes:

Boreholes 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with.

Water Monitoring Results

Site: Eastwood

Technician MC & JB

Weather sunny, warm

Round 4 of 12

| Location | Date & Time | Borehole | Water | Notes |
|----------|---------------------------------|-----------|-----------|--|
| | | Depth (m) | Depth (m) | |
| BH000002 | 01/06/2018 9:26 | 3.79 | 2.38 | |
| BH000001 | 01/06/2018 9:33 | 3.75 | 2.74 | |
| BH000003 | 01/06/2018 9:41 | 3.73 | 3.58 | |
| BH000015 | 01/06/2018 9:47 | 3.95 | Dry | |
| BH000004 | 01/06/2018 9:55 | 4.41 | 4.06 | |
| BH000017 | 01/06/2018 10:03 | 3.71 | 2.64 | |
| BH000005 | 01/06/2018 10:10 | 3.90 | 3.79 | |
| BH000018 | 01/06/2018 10:17 | 3.90 | 2.72 | |
| BH000014 | 01/06/2018 10:26 | 3.47 | 1.94 | |
| BH000006 | 01/06/2018 10:32 | 3.69 | 0.51 | |
| BH000007 | 01/06/2018 10:42 | 2.19 | 2.78 | Borehole Tampered with |
| BH000008 | 01/06/2018 10:56 | 1.48 | 1.64 | |
| BH000019 | 01/06/2018 11:05 | 0.23 | 0.75 | |
| BH000016 | 01/06/2018 11:14 | 18.47 | 12.95 | Existing borehole, negative flow rate noted by suction on the bung |
| BH000020 | 01/06/2018 11:25 | 2.77 | Dry | Borehole Tampered with |
| BH000009 | 01/06/2018 11:33 | 2.80 | Dry | |
| BH000010 | 01/06/2018 11:42 | 3.61 | Dry | Borehole Tampered with |
| BH000011 | 01/06/2018 11:49 | 2.74 | 2.57 | Borehole Tampered with |
| BH000021 | Borehole Destroyed by Vandalism | | | Borehole Destroyed by Vandalism |
| BH000012 | 01/06/2018 11:57 | 3.30 | 1.80 | Borehole Tampered with |
| BH000022 | 01/06/2018 12:06 | 3.20 | 1.59 | |
| BH000013 | 01/06/2018 12:14 | 4.03 | 1.22 | negative flow rate noted by suction on the bung |

Notes:

Boreholes 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with.

Gas Monitoring Results

Site: Eastwood

Technician MC & RC

Weather sunny, warm

Round 5 of 12

| Location | Date & Time | CH ₄ | CO ₂ | O ₂ | Peak CH ₄ | Peak CO ₂ | Min O ₂ | Pressure | relative | internal | CO | H ₂ S |
|----------|---------------------------------|-----------------|-----------------|----------------|----------------------|----------------------|--------------------|----------|----------|----------|-------|------------------|
| | | % | % | % | % | % | % | (mbar) | pressure | flow | (ppm) | |
| BH000002 | 15/06/2018 10:37 | 0 | 4.2 | 10.8 | 0 | 4.2 | 10.6 | 1007 | -0.03 | 0 | 0 | 0 |
| BH000001 | 15/06/2018 10:28 | 0 | 0.2 | 20.9 | 0.1 | 0.2 | 20.7 | 1006 | -0.03 | -0.1 | 0 | 0 |
| BH000003 | 15/06/2018 10:44 | 0 | 6.2 | 0.2 | 0 | 6.2 | 0.2 | 1007 | 0.18 | -0.1 | 0 | 0 |
| BH000015 | 15/06/2018 10:53 | 0 | 0.7 | 20.6 | 0 | 0.7 | 17.5 | 1006 | 1.45 | 0 | 0 | 0 |
| BH000004 | 15/06/2018 11:05 | 0 | 5 | 14.2 | 0 | 5 | 13.7 | 1006 | 2.07 | -0.1 | 0 | 0 |
| BH000017 | 15/06/2018 11:16 | 0 | 1.6 | 19.8 | 0 | 1.7 | 19.6 | 1006 | 4.93 | -0.1 | 0 | 0 |
| BH000005 | 15/06/2018 11:24 | 0 | 4.2 | 14.6 | 0 | 4.2 | 14.6 | 1006 | 0.01 | -0.1 | 1 | 0 |
| BH000018 | 15/06/2018 11:43 | 0 | 3.2 | 11.8 | 0 | 3.4 | 10.7 | 1007 | -0.01 | 0 | 0 | 0 |
| BH000014 | 15/06/2018 11:53 | 0 | 1.7 | 18.5 | 0 | 1.8 | 18.5 | 1007 | -0.02 | 0 | 0 | 0 |
| BH000006 | 15/06/2018 11:34 | 0 | 2.9 | 18.4 | 0 | 2.9 | 18.2 | 1007 | -0.13 | -0.1 | 2 | 0 |
| BH000007 | 15/06/2018 12:02 | 6.6 | 0.4 | 19.3 | 6.6 | 0.4 | 19.2 | 1007 | 1.8 | 0 | 0 | 0 |
| BH000008 | 15/06/2018 12:14 | 0 | 1.6 | 19.9 | 0.3 | 1.6 | 19.7 | 1008 | -0.05 | 0 | 0 | 0 |
| BH000019 | 15/06/2018 12:23 | 0 | 0.5 | 20.3 | 0.1 | 0.5 | 20.3 | 1007 | 6.21 | 0 | 0 | 0 |
| BH000016 | 15/06/2018 12:33 | 0.1 | 0.8 | 20.4 | 0.1 | 0.8 | 20.2 | 1007 | 2.2 | -1 | 2 | 0 |
| BH000020 | 15/06/2018 12:46 | 0 | 3.3 | 19.9 | 0.1 | 3.3 | 19.9 | 1006 | 0.14 | 0 | 4 | 0 |
| BH000009 | 15/06/2018 12:56 | 0 | 1.4 | 20 | 0 | 1.4 | 19.9 | 1007 | -0.08 | 0 | 2 | 0 |
| BH000010 | 15/06/2018 13:07 | 0 | 0 | 21.1 | 0 | 0 | 20.6 | 1007 | -0.1 | 0 | 1 | 0 |
| BH000011 | 15/06/2018 13:18 | 0.1 | 0 | 21.3 | 0 | 0 | 20.9 | 1008 | -0.1 | 0 | 1 | 0 |
| BH000021 | Borehole Destroyed by Vandalism | | | | | | | | | | | |
| BH000012 | 15/06/2018 13:28 | 0 | 2 | 19.9 | 0 | 2.1 | 19.9 | 1008 | -0.11 | 0 | 0 | 0 |
| BH000022 | 15/06/2018 13:38 | 0 | 0 | 21.4 | 0.1 | 0.1 | 20.7 | 1008 | -0.11 | 0 | 0 | 0 |
| BH000013 | 15/06/2018 13:51 | 0.1 | 0 | 21.5 | 0.1 | 0 | 20.7 | 1009 | -0.04 | -5.3 | 0 | 0 |

Notes:

Boreholes 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with.

Water Monitoring Results

Site: Eastwood

Technician MC & RC

Weather sunny, warm

Round 5 of 12

| Location | Date & Time | Borehole | Water | Notes |
|----------|---------------------------------|-----------|-----------|--|
| | | Depth (m) | Depth (m) | |
| BH000002 | 15/06/2018 10:37 | 3.79 | 2.68 | |
| BH000001 | 15/06/2018 10:28 | 3.75 | 3.32 | |
| BH000003 | 15/06/2018 10:44 | 3.73 | 3.88 | |
| BH000015 | 15/06/2018 10:53 | 3.95 | Dry | |
| BH000004 | 15/06/2018 11:05 | 4.41 | 4.34 | |
| BH000017 | 15/06/2018 11:16 | 3.71 | 3.21 | |
| BH000005 | 15/06/2018 11:24 | 3.90 | 4.10 | |
| BH000018 | 15/06/2018 11:43 | 3.90 | 3.15 | |
| BH000014 | 15/06/2018 11:53 | 3.47 | 2.36 | |
| BH000006 | 15/06/2018 11:34 | 3.69 | 1.42 | |
| BH000007 | 15/06/2018 12:02 | 2.19 | 2.88 | Borehole Tampered with |
| BH000008 | 15/06/2018 12:14 | 1.48 | 2.00 | |
| BH000019 | 15/06/2018 12:23 | 0.23 | 1.11 | |
| BH000016 | 15/06/2018 12:33 | 18.47 | 13.86 | Existing borehole, negative flow rate noted by suction on the bung |
| BH000020 | 15/06/2018 12:46 | 2.77 | Dry | Borehole Tampered with |
| BH000009 | 15/06/2018 12:56 | 2.80 | Dry | |
| BH000010 | 15/06/2018 13:07 | 3.61 | Dry | Borehole Tampered with |
| BH000011 | 15/06/2018 13:18 | 2.74 | 2.69 | Borehole Tampered with |
| BH000021 | Borehole Destroyed by Vandalism | | | Borehole Destroyed by Vandalism |
| BH000012 | 15/06/2018 13:28 | 3.30 | 2.20 | Borehole Tampered with |
| BH000022 | 15/06/2018 13:38 | 3.20 | 1.89 | |
| BH000013 | 15/06/2018 13:51 | 4.03 | 1.38 | negative flow rate noted by suction on the bung |

Notes:

Boreholes 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with.

Gas Monitoring Results

Site: Eastwood

Technician MC & SO

Weather sunny, hot

Round 6 of 12

| Location | Date & Time | CH ₄ | CO ₂ | O ₂ | Peak CH ₄ | Peak CO ₂ | Min O ₂ | Pressure | relative | internal | CO | H ₂ S |
|----------|---------------------------------|-----------------|-----------------|----------------|----------------------|----------------------|--------------------|----------|----------|----------|-------|------------------|
| | | % | % | % | % | % | % | (mbar) | pressure | flow | (ppm) | |
| BH000002 | 29/06/2018 11:45 | 0.1 | 0 | 20.7 | 0.1 | 0 | 20.1 | 1015 | -0.04 | -0.01 | 0 | 0 |
| BH000001 | 29/06/2018 11:36 | 0.1 | 0.2 | 20.4 | 0.2 | 0.3 | 20.1 | 1015 | -0.08 | -0.01 | 0 | 0 |
| BH000003 | 29/06/2018 11:55 | 0 | 6 | 0.3 | 0.1 | 6.1 | 0.3 | 1016 | 2.22 | -0.01 | 1 | 0 |
| BH000015 | 29/06/2018 12:02 | 0 | 0.4 | 19.6 | 0.1 | 0.5 | 16.4 | 1016 | -0.01 | -0.01 | 0 | 0 |
| BH000004 | 29/06/2018 12:08 | 0 | 4 | 17.3 | 0 | 3.9 | 17.2 | 1016 | 0 | 0 | 0 | 0 |
| BH000017 | 29/06/2018 12:15 | 0 | 1.5 | 19.1 | 0.1 | 1.5 | 19.1 | 1016 | 1.06 | 0 | 0 | 0 |
| BH000005 | 29/06/2018 12:21 | 0 | 2.4 | 17.7 | 0 | 2.4 | 17.7 | 1016 | -0.04 | 0 | 2 | 0 |
| BH000018 | 29/06/2018 12:33 | 0 | 0.3 | 19.9 | 0 | 0.3 | 19.8 | 1017 | -0.02 | 0 | 0 | 0 |
| BH000014 | 29/06/2018 12:40 | 0 | 0.7 | 19.6 | 0 | 0.7 | 19.6 | 1016 | -0.02 | -0.01 | 0 | 0 |
| BH000006 | 29/06/2018 12:27 | 0 | 0.9 | 19.5 | 0 | 0.9 | 19.4 | 1016 | -0.03 | -0.01 | 2 | 0 |
| BH000007 | 29/06/2018 12:46 | 5.5 | 0.4 | 18.8 | 5.6 | 0.4 | 18.7 | 1016 | -0.04 | 0 | 0 | 0 |
| BH000008 | 29/06/2018 12:54 | 0 | 1.1 | 19.6 | 0.1 | 1.1 | 19.5 | 1017 | -0.04 | -0.01 | 0 | 0 |
| BH000019 | 29/06/2018 12:58 | 0 | 0.9 | 19.9 | 0 | 0.9 | 19.8 | 1016 | -0.07 | -0.01 | 0 | 0 |
| BH000016 | 29/06/2018 13:13 | 0 | 0 | 20.8 | 0 | 0 | 20.4 | 1016 | -0.11 | -0.01 | 1 | 0 |
| BH000020 | 29/06/2018 13:23 | 0 | 1.8 | 19.7 | 0.1 | 1.7 | 19.7 | 1016 | -0.1 | 0 | 4 | 0 |
| BH000009 | 29/06/2018 13:30 | 0 | 0 | 20.5 | 0.1 | 0 | 20.3 | 1016 | -0.14 | -0.01 | 4 | 0 |
| BH000010 | 29/06/2018 13:37 | 0 | 2.2 | 19.3 | 0 | 2.1 | 19.3 | 1016 | -0.13 | 0 | 1 | 0 |
| BH000011 | 29/06/2018 13:45 | 0.1 | 0.5 | 20.4 | 0.1 | 0.5 | 20.4 | 1017 | -0.13 | 0 | 0 | 0 |
| BH000021 | Borehole Destroyed by Vandalism | | | | | | | | | | | |
| BH000012 | 29/06/2018 13:51 | 0 | 1.1 | 19.8 | 0.1 | 1.1 | 19.7 | 1016 | -0.12 | 0 | 0 | 0 |
| BH000022 | 29/06/2018 14:00 | 0.1 | 0.3 | 20.7 | 0.1 | 0.3 | 20.5 | 1017 | -0.12 | 0 | 0 | 0 |
| BH000013 | 29/06/2018 14:07 | 0.1 | 0 | 20.6 | 0.1 | 0 | 20.4 | 1017 | -0.02 | -7.9 | 0 | 0 |

Notes:

Boreholes 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with.

Water Monitoring Results

Site: Eastwood

Technician MC & SO

Weather sunny, hot

Round 6 of 12

| Location | Date & Time | Borehole | Water | Notes |
|----------|---------------------------------|-----------|-----------|---|
| | | Depth (m) | Depth (m) | |
| BH000002 | 29/06/2018 11:45 | 3.79 | 2.43 | |
| BH000001 | 29/06/2018 11:36 | 3.75 | 3.2 | |
| BH000003 | 29/06/2018 11:55 | 3.73 | 3.59 | |
| BH000015 | 29/06/2018 12:02 | 3.95 | Dry | |
| BH000004 | 29/06/2018 12:08 | 4.41 | 4.11 | |
| BH000017 | 29/06/2018 12:15 | 3.71 | 3.09 | |
| BH000005 | 29/06/2018 12:21 | 3.90 | Dry | |
| BH000018 | 29/06/2018 12:33 | 3.90 | 3.19 | |
| BH000014 | 29/06/2018 12:40 | 3.47 | 2.21 | |
| BH000006 | 29/06/2018 12:27 | 3.69 | 2.02 | |
| BH000007 | 29/06/2018 12:46 | 2.19 | 2.84 | Borehole Tampered with |
| BH000008 | 29/06/2018 12:54 | 1.48 | 1.83 | |
| BH000019 | 29/06/2018 12:58 | 0.23 | 1.04 | |
| BH000016 | 29/06/2018 13:13 | 18.47 | 13.32 | Existing borehole |
| BH000020 | 29/06/2018 13:23 | 2.77 | Dry | Borehole Tampered with |
| BH000009 | 29/06/2018 13:30 | 2.80 | Dry | |
| BH000010 | 29/06/2018 13:37 | 3.61 | Dry | Borehole Tampered with |
| BH000011 | 29/06/2018 13:45 | 2.74 | 2.48 | Borehole Tampered with |
| BH000021 | Borehole Destroyed by Vandalism | | | Borehole Destroyed by Vandalism |
| BH000012 | 29/06/2018 13:51 | 3.30 | 2.04 | Borehole Tampered with |
| BH000022 | 29/06/2018 14:00 | 3.20 | 1.67 | |
| BH000013 | 29/06/2018 14:07 | 4.03 | 1.33 | negative flow rate noted by suction on the bung |

Notes:

Boreholes 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with.

Gas Monitoring Results

Site: Eastwood

Technician MC & JB

Weather sunny, hot

Round 7 of 12

| Location | Date & Time | CH ₄ | CO ₂ | O ₂ | Peak CH ₄ | Peak CO ₂ | Min O ₂ | Pressure | relative | internal | CO | H ₂ S |
|----------|---------------------------------|-----------------|-----------------|----------------|----------------------|----------------------|--------------------|----------|----------|----------|-------|------------------|
| | | % | % | % | % | % | % | (mbar) | pressure | flow | (ppm) | |
| BH000002 | 13/07/2018 9:28 | 0.1 | 2.1 | 17.9 | 0.1 | 2.1 | 17.8 | 1013 | -0.03 | -0.1 | 0 | 0 |
| BH000001 | 13/07/2018 9:22 | 0.1 | 0.4 | 20.8 | 0.2 | 0.4 | 20.8 | 1013 | -0.07 | -0.1 | 0 | 0 |
| BH000003 | 13/07/2018 9:36 | 0.1 | 1.3 | 19 | 0.1 | 2.1 | 17.7 | 1013 | 0 | -0.1 | 0 | 0 |
| BH000015 | 13/07/2018 9:41 | 0.1 | 0.4 | 20.9 | 0.1 | 0.5 | 20.6 | 1013 | 0.01 | -0.1 | 0 | 0 |
| BH000004 | 13/07/2018 9:48 | 0.1 | 2.3 | 20 | 0.1 | 2.3 | 20 | 1013 | 0 | -0.1 | 0 | 0 |
| BH000017 | 13/07/2018 9:54 | 0.1 | 1.5 | 20.4 | 0.1 | 1.5 | 20.4 | 1013 | -0.01 | -0.1 | 0 | 0 |
| BH000005 | 13/07/2018 9:59 | 0.1 | 2.3 | 19.3 | 0.1 | 2.3 | 19.3 | 1013 | 0.03 | -0.1 | 0 | 0 |
| BH000018 | 13/07/2018 10:14 | 0.1 | 0.5 | 21 | 0.1 | 0.5 | 21 | 1014 | 0.02 | -0.1 | 0 | 0 |
| BH000014 | 13/07/2018 10:21 | 0.1 | 0.7 | 20.8 | 0.1 | 0.7 | 20.8 | 1013 | 0.01 | -0.1 | 0 | 0 |
| BH000006 | 13/07/2018 10:07 | 0.1 | 0.9 | 20.8 | 0.1 | 1 | 20.7 | 1013 | 0.01 | 0 | 0 | 0 |
| BH000007 | 13/07/2018 10:29 | 3.3 | 0.7 | 20.2 | 3.3 | 0.8 | 20.2 | 1013 | -0.03 | 0 | 0 | 0 |
| BH000008 | 13/07/2018 10:37 | 0.1 | 1.5 | 20.5 | 0.2 | 1.5 | 20.6 | 1014 | -0.04 | -0.1 | 0 | 0 |
| BH000019 | 13/07/2018 10:45 | 0.1 | 1.8 | 20.4 | 0.1 | 1.8 | 20.4 | 1014 | -0.05 | -0.1 | 0 | 0 |
| BH000016 | 13/07/2018 10:52 | 0.1 | 0.1 | 21.2 | 0.1 | 0.1 | 20.8 | 1013 | -0.05 | -0.1 | 0 | 0 |
| BH000020 | 13/07/2018 10:59 | 0.1 | 2 | 20.5 | 0.1 | 2 | 20.5 | 1013 | -0.02 | -0.1 | 0 | 0 |
| BH000009 | 13/07/2018 11:06 | 0.1 | 0.6 | 21 | 0.1 | 2 | 20.2 | 1013 | 0.11 | -0.1 | 0 | 0 |
| BH000010 | 13/07/2018 11:13 | 0.1 | 2.5 | 20.3 | 0.1 | 2.5 | 20.3 | 1013 | -0.08 | -0.1 | 0 | 0 |
| BH000011 | 13/07/2018 11:18 | 0.1 | 1.9 | 20 | 0.1 | 1.9 | 20 | 1014 | -0.07 | -0.1 | 0 | 0 |
| BH000021 | Borehole Destroyed by Vandalism | | | | | | | | | | | |
| BH000012 | 13/07/2018 11:27 | 0.1 | 1.5 | 20.4 | 0.1 | 1.5 | 20.4 | 1014 | -0.08 | 0 | 0 | 0 |
| BH000022 | 13/07/2018 11:33 | 0.1 | 0.9 | 20.9 | 0.1 | 0.9 | 20.7 | 1015 | -0.1 | -0.1 | 0 | 0 |
| BH000013 | 13/07/2018 11:41 | 0.1 | 0 | 21.1 | 0.1 | 0 | 20.9 | 1015 | -0.08 | -2.1 | 0 | 0 |

Notes:

Boreholes 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with.

Water Monitoring Results

Site: Eastwood

Technician MC & JB

Weather sunny, hot

Round 7 of 12

| Location | Date & Time | Borehole | Water | Notes |
|----------|---------------------------------|-----------|-----------|---|
| | | Depth (m) | Depth (m) | |
| BH000002 | 13/07/2018 9:28 | 3.79 | 2.42 | |
| BH000001 | 13/07/2018 9:22 | 3.75 | 3.18 | |
| BH000003 | 13/07/2018 9:36 | 3.73 | 3.58 | |
| BH000015 | 13/07/2018 9:41 | 3.95 | Dry | |
| BH000004 | 13/07/2018 9:48 | 4.41 | 4.12 | |
| BH000017 | 13/07/2018 9:54 | 3.71 | 3.23 | |
| BH000005 | 13/07/2018 9:59 | 3.90 | Dry | |
| BH000018 | 13/07/2018 10:14 | 3.90 | 3.38 | |
| BH000014 | 13/07/2018 10:21 | 3.47 | 2.3 | |
| BH000006 | 13/07/2018 10:07 | 3.69 | 2.5 | |
| BH000007 | 13/07/2018 10:29 | 2.19 | 2.92 | Borehole Tampered with |
| BH000008 | 13/07/2018 10:37 | 1.48 | 1.87 | |
| BH000019 | 13/07/2018 10:45 | 0.23 | 1.23 | |
| BH000016 | 13/07/2018 10:52 | 18.47 | 13.93 | Existing borehole |
| BH000020 | 13/07/2018 10:59 | 2.77 | Dry | Borehole Tampered with |
| BH000009 | 13/07/2018 11:06 | 2.80 | Dry | |
| BH000010 | 13/07/2018 11:13 | 3.61 | Dry | Borehole Tampered with |
| BH000011 | 13/07/2018 11:18 | 2.74 | 2.5 | Borehole Tampered with |
| BH000021 | Borehole Destroyed by Vandalism | | | Borehole Destroyed by Vandalism |
| BH000012 | 13/07/2018 11:27 | 3.30 | 2.14 | Borehole Tampered with |
| BH000022 | 13/07/2018 11:33 | 3.20 | 1.66 | |
| BH000013 | 13/07/2018 11:41 | 4.03 | 1.4 | negative flow rate noted by suction on the bung |

Notes:

Boreholes 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with.

Gas Monitoring Results

Site: Eastwood

Technician MC & JE

Weather sunny, hot

Round 8 of 12

| Location | Date & Time | CH ₄ | CO ₂ | O ₂ | Peak CH ₄ | Peak CO ₂ | Min O ₂ | Pressure | relative | internal | CO | H ₂ S |
|----------|---------------------------------|-----------------|-----------------|----------------|----------------------|----------------------|--------------------|----------|----------|----------|-------|------------------|
| | | % | % | % | % | % | % | (mbar) | pressure | flow | (ppm) | |
| BH000002 | 27/07/2018 11:14 | 0 | 2.1 | 12 | 0.1 | 3.8 | 11.7 | 1001 | -0.1 | -0.1 | 0 | 0 |
| BH000001 | 27/07/2018 11:00 | 0.1 | 0.4 | 20.3 | 0.1 | 0.1 | 20.2 | 1001 | -0.11 | -0.1 | 0 | 0 |
| BH000003 | 27/07/2018 11:24 | 0 | 1.3 | 16 | 0 | 2.7 | 15.1 | 1002 | -0.09 | 0 | 0 | 0 |
| BH000015 | 27/07/2018 11:36 | 0.1 | 0.4 | 19.9 | 0.1 | 0.1 | 19.2 | 1002 | -0.1 | 0.1 | 0 | 0 |
| BH000004 | 27/07/2018 11:46 | 0.1 | 2.3 | 17.5 | 0.1 | 3.6 | 17.6 | 1002 | -0.12 | -0.1 | 0 | 0 |
| BH000017 | 27/07/2018 11:55 | 0.1 | 1.5 | 19.6 | 0.1 | 1.3 | 19.7 | 1003 | -0.11 | -0.1 | 2 | 0 |
| BH000005 | 27/07/2018 12:04 | 0.1 | 2.3 | 17.8 | 0.1 | 3 | 17.9 | 1002 | -0.13 | -0.1 | 3 | 0 |
| BH000018 | 27/07/2018 12:21 | 0.1 | 0.5 | 18.8 | 0.1 | 1.8 | 18.6 | 1003 | -0.15 | -0.2 | 0 | 0 |
| BH000014 | 27/07/2018 12:28 | 0.1 | 0.7 | 20.2 | 0.1 | 0.3 | 20.1 | 1003 | -0.14 | -0.2 | 0 | 0 |
| BH000006 | 27/07/2018 12:12 | 0.1 | 0.9 | 20 | 0.1 | 0.7 | 20 | 1003 | -0.14 | -0.1 | 0 | 0 |
| BH000007 | 27/07/2018 12:37 | 3 | 0.7 | 19.4 | 3 | 0.5 | 19.5 | 1003 | -0.16 | -0.1 | 0 | 0 |
| BH000008 | 27/07/2018 12:45 | 0.1 | 1.5 | 19.6 | 0.2 | 1 | 19.6 | 1003 | -0.19 | -0.1 | 0 | 0 |
| BH000019 | 27/07/2018 12:52 | 0.1 | 1.8 | 20 | 0.1 | 1 | 20.1 | 1003 | -0.21 | -0.1 | 2 | 0 |
| BH000016 | 27/07/2018 13:07 | 0.2 | 0.1 | 20.7 | 0.2 | 0.1 | 20.5 | 1003 | 0.11 | -0.5 | 1 | 0 |
| BH000020 | 27/07/2018 13:25 | 0.2 | 2 | 20.1 | 0.2 | 2 | 20.3 | 1002 | -0.22 | -0.2 | 3 | 0 |
| BH000009 | 27/07/2018 13:33 | 0.2 | 0.6 | 20.4 | 0.2 | 1.5 | 20.5 | 1002 | -0.22 | -0.2 | 1 | 0 |
| BH000010 | 27/07/2018 13:42 | 0.2 | 2.5 | 20.2 | 0.2 | 2 | 20.2 | 1003 | -0.22 | -0.3 | 0 | 0 |
| BH000011 | 27/07/2018 13:47 | 0.2 | 1.9 | 20.1 | 0.2 | 1.4 | 20.2 | 1003 | -0.24 | -0.2 | 0 | 0 |
| BH000021 | Borehole Destroyed by Vandalism | | | | | | | | | | | |
| BH000012 | 27/07/2018 13:56 | 0.1 | 0.2 | 21.1 | 0.2 | 0.2 | 20.8 | 1003 | -0.24 | -0.2 | 0 | 0 |
| BH000022 | 27/07/2018 14:04 | 0.1 | 0.8 | 20.4 | 0.2 | 0.8 | 20.4 | 1003 | -0.25 | -0.2 | 0 | 0 |
| BH000013 | 27/07/2018 14:10 | 0.1 | 0 | 21 | 0.2 | 0 | 20.7 | 1003 | -0.23 | -1.2 | 0 | 0 |

Notes:

Boreholes 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with.

Water Monitoring Results

Site: Eastwood

Technician MC & JE

Weather sunny, hot

Round 8 of 12

| Location | Date & Time | Borehole | Water | Notes |
|----------|---------------------------------|-----------|-----------|--|
| | | Depth (m) | Depth (m) | |
| BH000002 | 27/07/2018 11:14 | 3.79 | 2.68 | |
| BH000001 | 27/07/2018 11:00 | 3.75 | 3.36 | |
| BH000003 | 27/07/2018 11:24 | 3.73 | 3.82 | |
| BH000015 | 27/07/2018 11:36 | 3.95 | Dry | |
| BH000004 | 27/07/2018 11:46 | 4.41 | 4.39 | |
| BH000017 | 27/07/2018 11:55 | 3.71 | 3.67 | |
| BH000005 | 27/07/2018 12:04 | 3.90 | Dry | |
| BH000018 | 27/07/2018 12:21 | 3.90 | 3.75 | |
| BH000014 | 27/07/2018 12:28 | 3.47 | 2.66 | |
| BH000006 | 27/07/2018 12:12 | 3.69 | 3.22 | |
| BH000007 | 27/07/2018 12:37 | 2.19 | 3.27 | Borehole Tampered with |
| BH000008 | 27/07/2018 12:45 | 1.48 | 2.15 | |
| BH000019 | 27/07/2018 12:52 | 0.23 | 1.58 | |
| BH000016 | 27/07/2018 13:07 | 18.47 | 15.06 | Existing borehole, negative flow rate noted by suction on the bung |
| BH000020 | 27/07/2018 13:25 | 2.77 | Dry | Borehole Tampered with |
| BH000009 | 27/07/2018 13:33 | 2.80 | Dry | |
| BH000010 | 27/07/2018 13:42 | 3.61 | Dry | Borehole Tampered with |
| BH000011 | 27/07/2018 13:47 | 2.74 | 2.77 | Borehole Tampered with |
| BH000021 | Borehole Destroyed by Vandalism | | | Borehole Destroyed by Vandalism |
| BH000012 | 27/07/2018 13:56 | 3.30 | 2.08 | Borehole Tampered with |
| BH000022 | 27/07/2018 14:04 | 3.20 | 1.88 | |
| BH000013 | 27/07/2018 14:10 | 4.03 | 1.63 | negative flow rate noted by suction on the bung |

Notes:

Boreholes 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with.

Gas Monitoring Results

Site: Eastwood

Technician MC & JB

Weather sunny, hot

Round 9 of 12

| Location | Date & Time | CH ₄ | CO ₂ | O ₂ | Peak CH ₄ | Peak CO ₂ | Min O ₂ | Pressure | relative | internal | CO | H ₂ S |
|----------|---------------------------------|-----------------|-----------------|----------------|----------------------|----------------------|--------------------|----------|----------|----------|-------|------------------|
| | | % | % | % | % | % | % | (mbar) | pressure | flow | (ppm) | |
| BH000002 | 10/08/2018 10:28 | 0.1 | 0 | 20.8 | 0.1 | 0 | 20.6 | 1001 | -10.95 | -0.1 | 0 | 0 |
| BH000001 | 10/08/2018 10:20 | 0.1 | 0 | 21 | 0.1 | 0.2 | 20.5 | 1001 | -0.05 | -0.1 | 0 | 0 |
| BH000003 | 10/08/2018 10:32 | 0.1 | 0.4 | 20.3 | 0.2 | 0.6 | 20 | 1002 | -0.4 | -0.1 | 0 | 0 |
| BH000015 | 10/08/2018 10:39 | 0.1 | 0 | 20.6 | 0.1 | 0.1 | 20.5 | 1002 | 0 | 0.1 | 0 | 0 |
| BH000004 | 10/08/2018 10:50 | 0.1 | 1.3 | 20.2 | 0.1 | 1.2 | 20.2 | 1002 | -0.01 | -0.1 | 0 | 0 |
| BH000017 | 10/08/2018 11:00 | 0.1 | 1.1 | 20.3 | 0.1 | 1.2 | 20.3 | 1003 | -0.07 | -0.1 | 0 | 0 |
| BH000005 | 10/08/2018 11:05 | 0.1 | 2.9 | 18.7 | 0.1 | 2.8 | 18.8 | 1002 | -0.08 | -0.1 | 0 | 0 |
| BH000018 | 10/08/2018 11:23 | 0.1 | 0.5 | 20.6 | 0.1 | 0.6 | 20.6 | 1003 | 2.46 | 0 | 0 | 0 |
| BH000014 | 10/08/2018 11:30 | 0.1 | 0.2 | 20.9 | 0.1 | 0.2 | 20.7 | 1003 | -0.12 | 0 | 0 | 0 |
| BH000006 | 10/08/2018 11:16 | 0.1 | 0.7 | 20.6 | 0.1 | 0.7 | 20.5 | 1003 | 1.07 | -0.1 | 0 | 0 |
| BH000007 | 10/08/2018 11:35 | 2.6 | 0.5 | 20.2 | 2.6 | 0.5 | 20.1 | 1003 | 3.86 | -0.1 | 0 | 0 |
| BH000008 | 10/08/2018 11:43 | 0.1 | 1 | 20.6 | 0.1 | 1 | 20.6 | 1003 | -0.07 | -0.1 | 0 | 0 |
| BH000019 | 10/08/2018 11:46 | 0.1 | 1 | 20.7 | 0.1 | 1 | 20.7 | 1003 | -0.13 | -0.1 | 0 | 0 |
| BH000016 | 10/08/2018 11:53 | 0.1 | 0 | 21.4 | 0.1 | 0 | 21 | 1003 | -0.13 | -0.2 | 0 | 0 |
| BH000020 | 10/08/2018 12:00 | 0.1 | 2.4 | 20.7 | 0.1 | 2.4 | 20.7 | 1002 | -0.12 | -0.1 | 0 | 0 |
| BH000009 | 10/08/2018 12:06 | 0.1 | 1.3 | 20.5 | 0.1 | 1.3 | 20.5 | 1002 | -0.13 | -0.1 | 0 | 0 |
| BH000010 | 10/08/2018 12:11 | 0.1 | 0.1 | 21.4 | 0.1 | 0.1 | 21.1 | 1003 | -0.14 | -0.1 | 0 | 0 |
| BH000011 | 10/08/2018 12:16 | 0.1 | 1.4 | 20.6 | 0.1 | 1.4 | 20.6 | 1003 | -0.1 | -0.1 | 0 | 0 |
| BH000021 | Borehole Destroyed by Vandalism | | | | | | | | | | | |
| BH000012 | 10/08/2018 12:21 | 0.1 | 0.6 | 21.1 | 0.1 | 0.7 | 21.1 | 1003 | -0.11 | -0.1 | 0 | 0 |
| BH000022 | No Result | | | | | | | | | | | |
| BH000013 | 10/08/2018 12:32 | 0.1 | 0.1 | 21.6 | 0.1 | 0.1 | 21.6 | 1003 | -8.87 | -1.2 | 0 | 0 |

Notes:

Boreholes 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with.

Water Monitoring Results

Site: Eastwood

Technician MC & JB

Weather sunny, hot

Round 9 of 12

| Location | Date & Time | Borehole | Water | Notes |
|----------|---------------------------------|-----------|-----------|---|
| | | Depth (m) | Depth (m) | |
| BH000002 | 10/08/2018 10:28 | 3.79 | 1.92 | |
| BH000001 | 10/08/2018 10:20 | 3.75 | 3.1 | |
| BH000003 | 10/08/2018 10:32 | 3.73 | 3.57 | |
| BH000015 | 10/08/2018 10:39 | 3.95 | Dry | |
| BH000004 | 10/08/2018 10:50 | 4.41 | 4.15 | |
| BH000017 | 10/08/2018 11:00 | 3.71 | 3.45 | |
| BH000005 | 10/08/2018 11:05 | 3.90 | Dry | |
| BH000018 | 10/08/2018 11:23 | 3.90 | 3.61 | |
| BH000014 | 10/08/2018 11:30 | 3.47 | 2.39 | |
| BH000006 | 10/08/2018 11:16 | 3.69 | 3.04 | |
| BH000007 | 10/08/2018 11:35 | 2.19 | 3.05 | Borehole Tampered with |
| BH000008 | 10/08/2018 11:43 | 1.48 | 1.91 | |
| BH000019 | 10/08/2018 11:46 | 0.23 | 1.41 | |
| BH000016 | 10/08/2018 11:53 | 18.47 | 14.62 | Existing borehole |
| BH000020 | 10/08/2018 12:00 | 2.77 | Dry | Borehole Tampered with |
| BH000009 | 10/08/2018 12:06 | 2.80 | Dry | |
| BH000010 | 10/08/2018 12:11 | 3.61 | Dry | Borehole Tampered with |
| BH000011 | 10/08/2018 12:16 | 2.74 | 2.51 | Borehole Tampered with |
| BH000021 | Borehole Destroyed by Vandalism | | | Borehole Destroyed by Vandalism |
| BH000012 | 10/08/2018 12:21 | 3.30 | 1.58 | Borehole Tampered with |
| BH000022 | 10/08/2018 12:27 | 3.20 | 1.65 | |
| BH000013 | 10/08/2018 12:32 | 4.03 | 1.51 | negative flow rate noted by suction on the bung |

Notes:

Boreholes 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with.

Gas Monitoring Results

Site: Eastwood

Technician RC

Weather rain, wet

Round 10 of 12

| Location | Date & Time | CH ₄ | CO ₂ | O ₂ | Peak CH ₄ | Peak CO ₂ | Min O ₂ | Pressure | relative | internal | CO | H ₂ S |
|----------|---------------------------------|-----------------|-----------------|----------------|----------------------|----------------------|--------------------|----------|----------|----------|-------|------------------|
| | | % | % | % | % | % | % | (mbar) | pressure | flow | (ppm) | |
| BH000002 | 24/08/2018 9:19 | 0.1 | 2.3 | 17.6 | 0.1 | 2.5 | 17.1 | 1002 | -0.01 | 0 | 0 | 0 |
| BH000001 | 24/08/2018 9:09 | 0.1 | 0.1 | 21 | 0.1 | 0.1 | 21 | 1001 | -0.05 | 0 | 0 | 0 |
| BH000003 | 24/08/2018 9:29 | 0.1 | 0.4 | 20.9 | 0.1 | 0.4 | 20.4 | 1002 | 2.08 | 0 | 0 | 0 |
| BH000015 | 24/08/2018 9:38 | 0.1 | 0.1 | 21.1 | 0.1 | 0.1 | 21 | 1002 | 3.94 | 0 | 0 | 0 |
| BH000004 | 24/08/2018 9:49 | 0.1 | 4 | 16 | 0.1 | 4 | 15.9 | 1002 | 0.01 | 0 | 0 | 0 |
| BH000017 | 24/08/2018 10:00 | 0.1 | 1.2 | 20.2 | 0.1 | 1.2 | 20 | 1002 | 2.97 | 0 | 0 | 0 |
| BH000005 | 24/08/2018 10:15 | 0.1 | 3.4 | 18.1 | 0.1 | 3.4 | 18 | 1001 | 0 | 0 | 0 | 0 |
| BH000018 | 24/08/2018 10:40 | 0 | 1.4 | 19.4 | 0 | 1.4 | 19.4 | 1002 | -0.02 | 0 | 0 | 0 |
| BH000014 | 24/08/2018 10:52 | 0 | 0.2 | 21 | 0 | 0.2 | 20.9 | 1002 | -0.12 | 0 | 0 | 0 |
| BH000006 | 24/08/2018 10:27 | 0 | 0.9 | 20.3 | 0.1 | 0.9 | 20.3 | 1002 | -0.01 | 0 | 0 | 0 |
| BH000007 | 24/08/2018 11:00 | 2.6 | 0.6 | 19.8 | 2.6 | 0.7 | 19.7 | 1002 | 2.94 | 0 | 0 | 0 |
| BH000008 | 24/08/2018 11:10 | 0 | 1.1 | 20.1 | 0.1 | 1.1 | 20.1 | 1003 | -0.05 | 0 | 0 | 0 |
| BH000019 | 24/08/2018 11:20 | 0 | 0.9 | 20.5 | 0 | 0.9 | 20.4 | 1003 | 0 | 0 | 0 | 0 |
| BH000016 | 24/08/2018 11:31 | 0 | 0.9 | 18.8 | 0 | 0.9 | 18.6 | 1002 | -0.08 | 0 | 0 | 0 |
| BH000020 | 24/08/2018 11:43 | 0 | 2.5 | 20.3 | 0 | 2.4 | 20.3 | 1002 | -0.08 | -0.6 | 0 | 0 |
| BH000009 | 24/08/2018 12:24 | 0 | 0.8 | 20.4 | 0 | 0.8 | 20.4 | 1002 | -0.15 | 0 | 0 | 0 |
| BH000010 | 24/08/2018 12:39 | 0 | 0 | 21.3 | 0 | 0 | 20.6 | 1002 | -0.12 | 0 | 0 | 0 |
| BH000011 | 24/08/2018 12:45 | 0 | 1.6 | 20.2 | 0 | 1.6 | 20.1 | 1002 | 1.48 | 0 | 0 | 0 |
| BH000021 | Borehole Destroyed by Vandalism | | | | | | | | | | | |
| BH000012 | 24/08/2018 13:03 | 0 | 1.1 | 20.5 | 0 | 1.1 | 20.4 | 1003 | 284.32 | 0 | 0 | 0 |
| BH000022 | 24/08/2018 13:11 | 0 | 1 | 20.6 | 0 | 1 | 20.6 | 1003 | 0.08 | 0 | 0 | 0 |
| BH000013 | 24/08/2018 13:26 | 0 | 0.1 | 21 | 0 | 0.1 | 21 | 1003 | -0.03 | 0 | 0 | 0 |

Notes:

Boreholes 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with.

Water Monitoring Results

Site: Eastwood

Technician RC

Weather rain, wet

Round 10 of 12

| Location | Date & Time | Borehole | Water | Notes |
|----------|---------------------------------|-----------|-----------|---|
| | | Depth (m) | Depth (m) | |
| BH000002 | 24/08/2018 9:19 | 3.79 | 2.72 | |
| BH000001 | 24/08/2018 9:09 | 3.75 | 3.37 | |
| BH000003 | 24/08/2018 9:29 | 3.73 | 3.83 | |
| BH000015 | 24/08/2018 9:38 | 3.95 | Dry | |
| BH000004 | 24/08/2018 9:49 | 4.41 | 4.3 | |
| BH000017 | 24/08/2018 10:00 | 3.71 | 3.86 | |
| BH000005 | 24/08/2018 10:15 | 3.90 | Dry | |
| BH000018 | 24/08/2018 10:40 | 3.90 | 3.76 | |
| BH000014 | 24/08/2018 10:52 | 3.47 | 2.8 | |
| BH000006 | 24/08/2018 10:27 | 3.69 | 3.57 | |
| BH000007 | 24/08/2018 11:00 | 2.19 | 3.41 | Borehole Tampered with |
| BH000008 | 24/08/2018 11:10 | 1.48 | 2.29 | |
| BH000019 | 24/08/2018 11:20 | 0.23 | 1.77 | |
| BH000016 | 24/08/2018 11:31 | 18.47 | Dry | Existing borehole |
| BH000020 | 24/08/2018 11:43 | 2.77 | Dry | Borehole Tampered with, negative flow rate noted by suction on the bung |
| BH000009 | 24/08/2018 12:24 | 2.80 | Dry | |
| BH000010 | 24/08/2018 12:39 | 3.61 | Dry | Borehole Tampered with |
| BH000011 | 24/08/2018 12:45 | 2.74 | 2.78 | Borehole Tampered with |
| BH000021 | Borehole Destroyed by Vandalism | | | Borehole Destroyed by Vandalism |
| BH000012 | 24/08/2018 13:03 | 3.30 | 2.54 | Borehole Tampered with |
| BH000022 | 24/08/2018 13:11 | 3.20 | 2 | |
| BH000013 | 24/08/2018 13:26 | 4.03 | 1.75 | |

Notes:

Boreholes 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with.

Gas Monitoring Results

Site: Eastwood

Technician MC/JB

Weather Sunny, Damp

Round 11 of 12

| Location | Date & Time | CH ₄ | CO ₂ | O ₂ | Peak CH ₄ | Peak CO ₂ | Min O ₂ | Pressure | relative | internal | CO | H ₂ S |
|----------|---------------------------------|-----------------|-----------------|----------------|----------------------|----------------------|--------------------|----------|----------|----------|-------|------------------|
| | | % | % | % | % | % | % | (mbar) | pressure | flow | (ppm) | |
| BH000002 | 07/09/2018 10:24 | 0.1 | 2.6 | 16.7 | 0.2 | 2.6 | 16.7 | 1002 | -0.04 | -0.2 | 0 | 0 |
| BH000001 | 07/09/2018 10:29 | 0.1 | 0.2 | 21 | 0.1 | 0.2 | 20.5 | 1003 | 0.02 | -0.2 | 0 | 0 |
| BH000003 | 07/09/2018 10:34 | 0.1 | 0.7 | 20.3 | 0.1 | 0.8 | 20.2 | 1002 | -0.03 | -0.2 | 0 | 0 |
| BH000015 | 07/09/2018 10:38 | 0.1 | 0.1 | 21 | 0.1 | 0.1 | 20.7 | 1003 | 0.03 | -0.2 | 0 | 0 |
| BH000004 | 07/09/2018 10:44 | 0.1 | 2.6 | 18.2 | 0.1 | 2.6 | 18.1 | 1002 | -0.03 | -0.1 | 0 | 0 |
| BH000017 | 07/09/2018 10:48 | 0.1 | 1.2 | 20.4 | 0.1 | 1.2 | 20.2 | 1002 | -0.03 | -0.1 | 0 | 0 |
| BH000005 | 07/09/2018 10:53 | 0.1 | 3.1 | 18.9 | 0.1 | 3 | 18.7 | 1002 | -0.04 | -0.1 | 0 | 0 |
| BH000018 | 07/09/2018 11:05 | 0.1 | 1.8 | 18.8 | 0.1 | 1.8 | 18.6 | 1003 | -0.02 | -0.1 | 0 | 0 |
| BH000014 | 07/09/2018 11:11 | 0.1 | 0.3 | 21 | 0.1 | 0.4 | 20.5 | 1003 | -0.05 | -0.1 | 0 | 0 |
| BH000006 | 07/09/2018 10:59 | 0.1 | 0.8 | 20.6 | 0.1 | 0.8 | 20.5 | 1003 | -0.04 | -0.1 | 0 | 0 |
| BH000007 | 07/09/2018 11:17 | 2.6 | 0.4 | 20.3 | 2.6 | 0.4 | 20.2 | 1003 | -0.03 | -0.1 | 0 | 0 |
| BH000008 | 07/09/2018 11:21 | 0.1 | 1 | 20.8 | 0.1 | 1 | 20.7 | 1003 | 0 | -0.1 | 0 | 0 |
| BH000019 | 07/09/2018 11:27 | 0.1 | 1 | 20.8 | 0.1 | 1 | 20.7 | 1003 | -0.05 | -0.2 | 0 | 0 |
| BH000016 | 07/09/2018 11:35 | 0.1 | 0.9 | 18.8 | 0.1 | 0.9 | 18.8 | 1002 | 0.02 | -0.1 | 0 | 0 |
| BH000020 | 07/09/2018 11:41 | 0.1 | 2 | 20.4 | 0.1 | 2 | 20.3 | 1002 | -0.05 | -0.1 | 0 | 0 |
| BH000009 | 07/09/2018 11:46 | 0.1 | 1.5 | 20.2 | 0.1 | 1.5 | 20.1 | 1003 | -0.04 | -0.1 | 0 | 0 |
| BH000010 | 07/09/2018 11:51 | 0.1 | 0 | 21.4 | 0.1 | 0 | 20.9 | 1003 | -0.05 | -0.1 | 0 | 0 |
| BH000011 | 07/09/2018 11:55 | 0.1 | 1.4 | 20.4 | 0.1 | 1.4 | 20.4 | 1003 | 0.01 | -0.2 | 0 | 0 |
| BH000021 | Borehole Destroyed by Vandalism | | | | | | | | | | | |
| BH000012 | 07/09/2018 12:00 | 0.1 | 1.1 | 20.6 | 0.1 | 1.1 | 20.5 | 1003 | 1.34 | -0.1 | 0 | 0 |
| BH000022 | 07/09/2018 12:07 | 0.1 | 1.5 | 20.3 | 0.1 | 1.5 | 20.3 | 1004 | 0.55 | -0.22 | 0 | 0 |
| BH000013 | 07/09/2018 12:15 | 0.1 | 0.1 | 21.2 | 0.1 | 0.1 | 20.8 | 1005 | -0.05 | -1.5 | 0 | 0 |

Notes:

Boreholes 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with.

Water Monitoring Results

Site: Eastwood

Technician MC/JB

Weather Sunny, Damp

Round 11 of 12

| Location | Date & Time | Borehole | Water | Notes |
|----------|---------------------------------|-----------|-----------|---|
| | | Depth (m) | Depth (m) | |
| BH000002 | 07/09/2018 10:24 | 3.79 | 2.46 | |
| BH000001 | 07/09/2018 10:29 | 3.75 | 3.2 | |
| BH000003 | 07/09/2018 10:34 | 3.73 | 3.59 | |
| BH000015 | 07/09/2018 10:38 | 3.95 | Dry | |
| BH000004 | 07/09/2018 10:44 | 4.41 | 4.19 | |
| BH000017 | 07/09/2018 10:48 | 3.71 | 3.6 | |
| BH000005 | 07/09/2018 10:53 | 3.90 | Dry | |
| BH000018 | 07/09/2018 11:05 | 3.90 | 3.74 | |
| BH000014 | 07/09/2018 11:11 | 3.47 | 2.63 | |
| BH000006 | 07/09/2018 10:59 | 3.69 | 2.74 | |
| BH000007 | 07/09/2018 11:17 | 2.19 | 3.19 | Borehole Tampered with |
| BH000008 | 07/09/2018 11:21 | 1.48 | 2.03 | |
| BH000019 | 07/09/2018 11:27 | 0.23 | 1.56 | |
| BH000016 | 07/09/2018 11:35 | 18.47 | 14.83 | Existing borehole |
| BH000020 | 07/09/2018 11:41 | 2.77 | Dry | Borehole Tampered with |
| BH000009 | 07/09/2018 11:46 | 2.80 | Dry | |
| BH000010 | 07/09/2018 11:51 | 3.61 | Dry | Borehole Tampered with |
| BH000011 | 07/09/2018 11:55 | 2.74 | 2.55 | Borehole Tampered with |
| BH000021 | Borehole Destroyed by Vandalism | | | Borehole Destroyed by Vandalism |
| BH000012 | 07/09/2018 12:00 | 3.30 | 1.99 | Borehole Tampered with |
| BH000022 | 07/09/2018 12:07 | 3.20 | 1.82 | |
| BH000013 | 07/09/2018 12:15 | 4.03 | 1.62 | Negative flow rate noted by suction on the bung |

Notes:

Boreholes 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with.

Gas Monitoring Results

Site: Eastwood

Technician MC/IB

Weather Sunny, Damp

Round 12 of 12

| Location | Date & Time | CH ₄ | CO ₂ | O ₂ | Peak CH ₄ | Peak CO ₂ | Min O ₂ | Pressure | relative | internal | CO | H ₂ S |
|----------|---------------------------------|-----------------|-----------------|----------------|----------------------|----------------------|--------------------|----------|----------|----------|-------|------------------|
| | | % | % | % | % | % | % | (mbar) | pressure | flow | (ppm) | |
| BH000002 | 21/09/2018 9:28 | 0.1 | 1.9 | 19.1 | 0.1 | 1.9 | 19.1 | 992 | -0.02 | -0.1 | 0 | 0 |
| BH000001 | 21/09/2018 9:31 | 0.2 | 0.3 | 20.8 | 0.2 | 0.3 | 20.6 | 992 | -0.05 | -0.1 | 0 | 0 |
| BH000003 | 21/09/2018 9:34 | 0.1 | 0.4 | 21.2 | 0.1 | 0.4 | 20.6 | 993 | -0.04 | -0.1 | 0 | 0 |
| BH000015 | 21/09/2018 9:38 | 0.1 | 0.1 | 21.3 | 0.1 | 0.1 | 20.9 | 992 | 0.04 | -0.2 | 0 | 0 |
| BH000004 | 21/09/2018 9:43 | 0.1 | 0 | 21.5 | 0.1 | 0 | 20.9 | 992 | 0 | -0.1 | 0 | 0 |
| BH000017 | 21/09/2018 9:47 | 0.1 | 1 | 20.8 | 0.1 | 0.9 | 20.7 | 992 | 0.04 | -0.1 | 0 | 0 |
| BH000005 | 21/09/2018 9:53 | 0.1 | 4.1 | 18.2 | 0.1 | 4.1 | 18.2 | 992 | 0.03 | -0.1 | 0 | 0 |
| BH000018 | 21/09/2018 10:03 | 0.1 | 3.8 | 16.2 | 0.1 | 3.8 | 16.3 | 993 | 0.02 | -0.1 | 0 | 0 |
| BH000014 | 21/09/2018 10:07 | 0.1 | 0.4 | 21.3 | 0.1 | 0.4 | 20.6 | 993 | 0 | -0.2 | 0 | 0 |
| BH000006 | 21/09/2018 9:57 | 0.1 | 0.3 | 21.1 | 0.1 | 0.4 | 20.7 | 992 | 0.02 | -0.2 | 0 | 0 |
| BH000007 | 21/09/2018 10:12 | 3.3 | 1 | 19.1 | 3.3 | 1 | 19 | 993 | 0.03 | -0.1 | 0 | 0 |
| BH000008 | 21/09/2018 10:18 | 0.1 | 1.1 | 20.6 | 0.1 | 1.1 | 20.6 | 993 | -0.01 | -0.1 | 0 | 0 |
| BH000019 | 21/09/2018 10:23 | 0.1 | 0.7 | 20.9 | 0.1 | 0.7 | 20.9 | 993 | 0 | -0.3 | 0 | 0 |
| BH000016 | 21/09/2018 10:28 | 0.1 | 0.6 | 20.3 | 0.1 | 0.6 | 20.2 | 993 | -0.06 | 0 | 0 | 0 |
| BH000020 | 21/09/2018 10:34 | 0.1 | 2.3 | 20.6 | 0.1 | 2.3 | 20.6 | 992 | -0.01 | -0.1 | 0 | 0 |
| BH000009 | 21/09/2018 10:40 | 0.1 | 0.6 | 21.2 | 0.1 | 0.6 | 20.9 | 993 | 0.08 | -0.1 | 0 | 0 |
| BH000010 | 21/09/2018 10:43 | 0.1 | 0 | 21.6 | 0.1 | 0 | 21.1 | 993 | 0.04 | -0.1 | 0 | 0 |
| BH000011 | 21/09/2018 10:49 | 0.1 | 1 | 20.8 | 0.1 | 1 | 20.6 | 993 | 0.03 | -0.1 | 0 | 0 |
| BH000021 | Borehole Destroyed by Vandalism | | | | | | | | | | | |
| BH000012 | 21/09/2018 10:56 | 0.1 | 1 | 20.8 | 0.1 | 1 | 20.8 | 994 | 0.06 | -0.1 | 0 | 0 |
| BH000022 | 21/09/2018 11:01 | 0.1 | 0.9 | 21.2 | 0.1 | 0.9 | 21.1 | 994 | -0.01 | 0 | 0 | 0 |
| BH000013 | 21/09/2018 11:06 | 0.1 | 0.1 | 21.6 | 0.1 | 0.1 | 21.3 | 995 | 0.03 | -1.3 | 0 | 0 |

Notes:

Boreholes 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with.

Water Monitoring Results

Site: Eastwood

Technician MC/JB

Weather Sunny, Damp

Round 12 of 12

| Location | Date & Time | Borehole | Water | Notes |
|----------|---------------------------------|-----------|-----------|---|
| | | Depth (m) | Depth (m) | |
| BH000002 | 21/09/2018 9:28 | 3.79 | 2.47 | |
| BH000001 | 21/09/2018 9:31 | 3.75 | 3.2 | |
| BH000003 | 21/09/2018 9:34 | 3.73 | 3.58 | |
| BH000015 | 21/09/2018 9:38 | 3.95 | 3.89 | |
| BH000004 | 21/09/2018 9:43 | 4.41 | 4.18 | |
| BH000017 | 21/09/2018 9:47 | 3.71 | 3.65 | |
| BH000005 | 21/09/2018 9:53 | 3.90 | Dry | |
| BH000018 | 21/09/2018 10:03 | 3.90 | 3.75 | |
| BH000014 | 21/09/2018 10:07 | 3.47 | 2.8 | |
| BH000006 | 21/09/2018 9:57 | 3.69 | 0.35 | |
| BH000007 | 21/09/2018 10:12 | 2.19 | 3.25 | Borehole Tampered with |
| BH000008 | 21/09/2018 10:18 | 1.48 | 2.01 | |
| BH000019 | 21/09/2018 10:23 | 0.23 | 1.59 | |
| BH000016 | 21/09/2018 10:28 | 18.47 | 14.91 | Existing borehole |
| BH000020 | 21/09/2018 10:34 | 2.77 | Dry | Borehole Tampered with |
| BH000009 | 21/09/2018 10:40 | 2.80 | Dry | |
| BH000010 | 21/09/2018 10:43 | 3.61 | Dry | Borehole Tampered with |
| BH000011 | 21/09/2018 10:49 | 2.74 | 2.58 | Borehole Tampered with |
| BH000021 | Borehole Destroyed by Vandalism | | | Borehole Destroyed by Vandalism |
| BH000012 | 21/09/2018 10:56 | 3.30 | 2.04 | Borehole Tampered with |
| BH000022 | 21/09/2018 11:01 | 3.20 | 1.86 | |
| BH000013 | 21/09/2018 11:06 | 4.03 | 1.63 | Negative flow rate noted by suction on the bung |

Notes:

Boreholes 21 destroyed; Boreholes 10, 11, 12, 20 & 7 tampered with.

Appendix M

Chemical Testing Results



Exova Jones Environmental

Registered Address : Exova (UK) Ltd, Lochend Industrial Estate, Newbridge, Midlothian, EH28 8PL

Unit 3 Deeside Point
Zone 3
Deeside Industrial Park
Deeside
CH5 2UA

Kiwa CMT Testing
Unit 5 Prime Park Way
Prime Enterprise Park
Derby
Derbyshire
DE1 3QB

Tel: +44 (0) 1244 833780
Fax: +44 (0) 1244 833781



| | |
|--------------------------------|-----------------------------|
| Attention : | Brandon Fairweather |
| Date : | 19th April, 2018 |
| Your reference : | 57629 (13275) |
| Our reference : | Test Report 18/5000 Batch 1 |
| Location : | Eastwood Landfill |
| Date samples received : | 5th April, 2018 |
| Status : | Final report |
| Issue : | 1 |

Forty eight samples were received for analysis on 5th April, 2018 of which forty eight were scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.
All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

Compiled By:

Paul Boden BSc
Project Manager

Please see attached notes for all abbreviations and acronyms

Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather
JE Job No.: 18/5000

Report : Solid

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

| J E Sample No. | 1-4 | 5-8 | 9-12 | 13-16 | 17-20 | 21-24 | 25-28 | 29-32 | 33-37 | 38-40 | Please see attached notes for all abbreviations and acronyms | | |
|---------------------------------------|--------------------|--------------|--------------|--------------|--------------------|--------------|--------------|--------------|--------------|--------------|--|-------|------------------------|
| Sample ID | 57629/TP#1-1 | 57629/TP#1-2 | 57629/TP#2-1 | 57629/TP#2-2 | 57629/TP#3-1 | 57629/TP#3-2 | 57629/TP#4-1 | 57629/TP#4-2 | 57629/TP#5-1 | 57629/TP#5-2 | | | |
| Depth | | | | | | | | | | | | | |
| COC No / misc | | | | | | | | | | | | | |
| Containers | V J T | V J T | V J T | V J T | V J T | V J T | V J T | V J T | V J T | V J T | | | |
| Sample Date | 03/04/2018 | 03/04/2018 | 03/04/2018 | 03/04/2018 | 03/04/2018 | 03/04/2018 | 03/04/2018 | 03/04/2018 | 03/04/2018 | 03/04/2018 | | | |
| Sample Type | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil | | | |
| Batch Number | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| Date of Receipt | 05/04/2018 | 05/04/2018 | 05/04/2018 | 05/04/2018 | 05/04/2018 | 05/04/2018 | 05/04/2018 | 05/04/2018 | 05/04/2018 | 05/04/2018 | LOD/LOR | Units | Method No. |
| TPH CWG | | | | | | | | | | | | | |
| Aliphatics | | | | | | | | | | | | | |
| >C5-C6 # | <0.1 ^{SV} | <0.1 | <0.1 | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | mg/kg | TM36/PM12 |
| >C6-C8 # | <0.1 ^{SV} | <0.1 | <0.1 | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | mg/kg | TM36/PM12 |
| >C8-C10 | <0.1 ^{SV} | <0.1 | <0.1 | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | mg/kg | TM36/PM12 |
| >C10-C12 # | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | mg/kg | TM5/PM8/PM16 |
| >C12-C16 # | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | mg/kg | TM5/PM8/PM16 |
| >C16-C21 # | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | mg/kg | TM5/PM8/PM16 |
| >C21-C35 # | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | mg/kg | TM5/PM8/PM16 |
| >C35-C44 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | mg/kg | TM5/PM8/PM16 |
| Total aliphatics C5-44 | <26 | <26 | <26 | <26 | <26 | <26 | <26 | <26 | <26 | <26 | <26 | mg/kg | TM5/PM8/PM16/PM12/PM10 |
| Aromatics | | | | | | | | | | | | | |
| >C5-EC7 # | <0.1 ^{SV} | <0.1 | <0.1 | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | mg/kg | TM36/PM12 |
| >EC7-EC8 # | <0.1 ^{SV} | <0.1 | <0.1 | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | mg/kg | TM36/PM12 |
| >EC8-EC10 # | <0.1 ^{SV} | <0.1 | <0.1 | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | mg/kg | TM36/PM12 |
| >EC10-EC12 # | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | mg/kg | TM5/PM8/PM16 |
| >EC12-EC16 # | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | mg/kg | TM5/PM8/PM16 |
| >EC16-EC21 # | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | mg/kg | TM5/PM8/PM16 |
| >EC21-EC35 # | <7 | <7 | <7 | <7 | 41 | <7 | <7 | <7 | <7 | <7 | <7 | mg/kg | TM5/PM8/PM16 |
| >EC35-EC44 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | mg/kg | TM5/PM8/PM16 |
| Total aromatics C5-44 | <26 | <26 | <26 | <26 | 41 | <26 | <26 | <26 | <26 | <26 | <26 | mg/kg | TM5/PM8/PM16/PM12/PM10 |
| Total aliphatics and aromatics(C5-44) | <52 | <52 | <52 | <52 | <52 | <52 | <52 | <52 | <52 | <52 | <52 | mg/kg | TM5/PM8/PM16/PM12/PM10 |
| MTBE # | <5 ^{SV} | <5 | <5 | <5 | <5 ^{SV} | <5 | <5 | <5 | <5 | <5 | <5 | ug/kg | TM31/PM12 |
| Benzene # | <5 ^{SV} | <5 | <5 | <5 | <5 ^{SV} | <5 | <5 | <5 | <5 | <5 | <5 | ug/kg | TM31/PM12 |
| Toluene # | <5 ^{SV} | <5 | <5 | <5 | <5 ^{SV} | <5 | <5 | <5 | <5 | <5 | <5 | ug/kg | TM31/PM12 |
| Ethylbenzene # | <5 ^{SV} | <5 | <5 | <5 | <5 ^{SV} | <5 | <5 | <5 | <5 | <5 | <5 | ug/kg | TM31/PM12 |
| m/p-Xylene # | <5 ^{SV} | <5 | <5 | <5 | <5 ^{SV} | <5 | <5 | <5 | <5 | <5 | <5 | ug/kg | TM31/PM12 |
| o-Xylene # | <5 ^{SV} | <5 | <5 | <5 | <5 ^{SV} | <5 | <5 | <5 | <5 | <5 | <5 | ug/kg | TM31/PM12 |
| Phenol # | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | mg/kg | TM26/PM21 |
| Natural Moisture Content | 48.8 | 28.1 | 27.9 | 22.8 | 44.5 | 14.6 | 34.7 | 17.9 | 38.5 | 30.3 | <0.1 | % | PM4/PM0 |
| Chloride (2:1 Ext BRE) # | - | - | - | - | - | <0.002 | - | <0.002 | - | 0.004 | <0.002 | g/l | TM38/PM20 |
| Hexavalent Chromium # | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | mg/kg | TM38/PM20 |
| Nitrate as NO3 (2:1 Ext BRE) | - | - | - | - | - | <0.0025 | - | <0.0025 | - | 0.0033 | <0.0025 | g/l | TM38/PM20 |
| Sulphate as SO4 (2:1 Ext) # | 0.0174 | 0.0928 | 0.0212 | 0.0967 | 0.0202 | 0.0170 | 0.0228 | 0.0946 | 0.0136 | 0.0159 | <0.0015 | g/l | TM38/PM20 |
| Free Cyanide | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | mg/kg | TM89/PM45 |
| Total Cyanide # | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.7 | <0.5 | <0.5 | mg/kg | TM89/PM45 |
| Total Organic Carbon # | 5.31 | 0.40 | 2.92 | 0.41 | 22.70 | 0.47 | 2.20 | 0.29 | 3.38 | 1.69 | <0.02 | % | TM21/PM24 |

Please see attached notes for all abbreviations and acronyms

Please see attached notes for all abbreviations and acronyms

Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather
JE Job No.: 18/5000

Report : Solid

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

| J E Sample No. | 41-44 | 45-48 | 49-52 | 53-56 | 57-60 | 61-64 | 65-68 | 69-72 | 73-76 | 77-80 | Please see attached notes for all abbreviations and acronyms | | |
|---------------------------------------|--------------------|--------------|--------------------|--------------|--------------------|--------------|--------------------|--------------|--------------------|---------------|--|-------|------------------------|
| Sample ID | 57629/TP#6-1 | 57629/TP#6-2 | 57629/TP#7-1 | 57629/TP#7-2 | 57629/TP#8-1 | 57629/TP#8-2 | 57629/TP#9-1 | 57629/TP#9-2 | 57629/TP#10-1 | 57629/TP#10-2 | | | |
| Depth | | | | | | | | | | | | | |
| COC No / misc | | | | | | | | | | | | | |
| Containers | V J T | V J T | V J T | V J T | V J T | V J T | V J T | V J T | V J T | V J T | | | |
| Sample Date | 03/04/2018 | 03/04/2018 | 03/04/2018 | 03/04/2018 | 03/04/2018 | 03/04/2018 | 03/04/2018 | 03/04/2018 | 03/04/2018 | 03/04/2018 | | | |
| Sample Type | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil | | | |
| Batch Number | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| Date of Receipt | 05/04/2018 | 05/04/2018 | 05/04/2018 | 05/04/2018 | 05/04/2018 | 05/04/2018 | 05/04/2018 | 05/04/2018 | 05/04/2018 | 05/04/2018 | LOD/LOR | Units | Method No. |
| TPH CWG | | | | | | | | | | | | | |
| Aliphatics | | | | | | | | | | | | | |
| >C5-C6 # | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 | mg/kg | TM36/PM12 |
| >C6-C8 # | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 | mg/kg | TM36/PM12 |
| >C8-C10 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 | mg/kg | TM36/PM12 |
| >C10-C12 # | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | mg/kg | TM5/PM8/PM16 |
| >C12-C16 # | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | mg/kg | TM5/PM8/PM16 |
| >C16-C21 # | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | mg/kg | TM5/PM8/PM16 |
| >C21-C35 # | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | mg/kg | TM5/PM8/PM16 |
| >C35-C44 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | mg/kg | TM5/PM8/PM16 |
| Total aliphatics C5-44 | <26 | <26 | <26 | <26 | <26 | <26 | <26 | <26 | <26 | <26 | <26 | mg/kg | TM5/PM8/PM16/PM12/PM10 |
| Aromatics | | | | | | | | | | | | | |
| >C5-EC7 # | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 | mg/kg | TM36/PM12 |
| >EC7-EC8 # | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 | mg/kg | TM36/PM12 |
| >EC8-EC10 # | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 | mg/kg | TM36/PM12 |
| >EC10-EC12 # | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | mg/kg | TM5/PM8/PM16 |
| >EC12-EC16 # | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | mg/kg | TM5/PM8/PM16 |
| >EC16-EC21 # | <7 | <7 | <7 | <7 | 28 | <7 | <7 | <7 | <7 | <7 | <7 | mg/kg | TM5/PM8/PM16 |
| >EC21-EC35 # | <7 | <7 | <7 | <7 | 76 | <7 | 26 | <7 | <7 | <7 | <7 | mg/kg | TM5/PM8/PM16 |
| >EC35-EC44 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | mg/kg | TM5/PM8/PM16 |
| Total aromatics C5-44 | <26 | <26 | <26 | <26 | 104 | <26 | 26 | <26 | <26 | <26 | <26 | mg/kg | TM5/PM8/PM16/PM12/PM10 |
| Total aliphatics and aromatics(C5-44) | <52 | <52 | <52 | <52 | 104 | <52 | <52 | <52 | <52 | <52 | <52 | mg/kg | TM5/PM8/PM16/PM12/PM10 |
| MTBE # | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 | ug/kg | TM31/PM12 |
| Benzene # | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 | ug/kg | TM31/PM12 |
| Toluene # | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 | ug/kg | TM31/PM12 |
| Ethylbenzene # | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 | ug/kg | TM31/PM12 |
| m/p-Xylene # | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 | ug/kg | TM31/PM12 |
| o-Xylene # | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 | ug/kg | TM31/PM12 |
| Phenol # | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | mg/kg | TM26/PM21 |
| Natural Moisture Content | 39.2 | 18.8 | 23.3 | 15.0 | 30.8 | 15.9 | 24.1 | 15.8 | 25.4 | 15.4 | <0.1 | % | PM4/PM0 |
| Chloride (2:1 Ext BRE) # | - | - | - | <0.002 | - | <0.002 | - | <0.002 | - | - | <0.002 | g/l | TM38/PM20 |
| Hexavalent Chromium # | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | mg/kg | TM38/PM20 |
| Nitrate as NO3 (2:1 Ext BRE) | - | - | - | <0.0025 | - | <0.0025 | - | <0.0025 | - | - | <0.0025 | g/l | TM38/PM20 |
| Sulphate as SO4 (2:1 Ext) # | 0.0246 | 0.0207 | 0.0022 | 0.0174 | 0.0110 | 0.0182 | 0.0123 | 0.0084 | 0.0076 | 0.0075 | <0.0015 | g/l | TM38/PM20 |
| Free Cyanide | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | mg/kg | TM89/PM45 |
| Total Cyanide # | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | mg/kg | TM89/PM45 |
| Total Organic Carbon # | 10.38 | 0.25 | 2.59 | 0.13 | 10.18 | 0.15 | 8.18 | 0.22 | 7.06 | 0.59 | <0.02 | % | TM21/PM24 |

Please include all sections of this report if it is reproduced

Please see attached notes for all abbreviations and acronyms

Please see attached notes for all abbreviations and acronyms

Client Name: Kiwa CMT Testing
 Reference: 57629 (13275)
 Location: Eastwood Landfill
 Contact: Brandon Fairweather
 JE Job No.: 18/5000

Report : Solid

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

| J E Sample No. | 81-84 | 85-88 | 89-92 | 93-96 | 97-100 | 101-104 | 105-108 | 109-112 | 113-116 | 117-120 | Please see attached notes for all abbreviations and acronyms | | |
|---------------------------------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--|-------|--------------|
| Sample ID | 57629/TP#11-1 | 57629/TP#11-2 | 57629/TP#12-1 | 57629/TP#12-2 | 57629/TP#13-1 | 57629/TP#13-2 | 57629/TP#14-1 | 57629/TP#14-2 | 57629/TP#15-1 | 57629/TP#15-2 | | | |
| Depth | | | | | | | | | | | | | |
| COC No / misc | | | | | | | | | | | | | |
| Containers | V J T | V J T | V J T | V J T | V J T | V J T | V J T | V J T | V J T | V J T | | | |
| Sample Date | 03/04/2018 | 03/04/2018 | 03/04/2018 | 03/04/2018 | 03/04/2018 | 03/04/2018 | 03/04/2018 | 03/04/2018 | 03/04/2018 | 03/04/2018 | | | |
| Sample Type | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil | | | |
| Batch Number | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| Date of Receipt | 05/04/2018 | 05/04/2018 | 05/04/2018 | 05/04/2018 | 05/04/2018 | 05/04/2018 | 05/04/2018 | 05/04/2018 | 05/04/2018 | 05/04/2018 | LOD/LOR | Units | Method No. |
| TPH CWG | | | | | | | | | | | | | |
| Aliphatics | | | | | | | | | | | | | |
| >C5-C6 # | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 | mg/kg | TM36/PM12 |
| >C6-C8 # | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 | mg/kg | TM36/PM12 |
| >C8-C10 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 | mg/kg | TM36/PM12 |
| >C10-C12 # | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | mg/kg | TM5/PM8/PM16 |
| >C12-C16 # | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | mg/kg | TM5/PM8/PM16 |
| >C16-C21 # | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | mg/kg | TM5/PM8/PM16 |
| >C21-C35 # | <7 | <7 | <7 | <7 | 20 | <7 | <7 | <7 | <7 | <7 | <7 | mg/kg | TM5/PM8/PM16 |
| >C35-C44 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | mg/kg | TM5/PM8/PM16 |
| Total aliphatics C5-44 | <26 | <26 | <26 | <26 | <26 | <26 | <26 | <26 | <26 | <26 | <26 | mg/kg | TM5/PM8/PM16 |
| Aromatics | | | | | | | | | | | | | |
| >C5-EC7 # | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 | mg/kg | TM36/PM12 |
| >EC7-EC8 # | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 | mg/kg | TM36/PM12 |
| >EC8-EC10 # | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 | mg/kg | TM36/PM12 |
| >EC10-EC12 # | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | mg/kg | TM5/PM8/PM16 |
| >EC12-EC16 # | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | mg/kg | TM5/PM8/PM16 |
| >EC16-EC21 # | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | mg/kg | TM5/PM8/PM16 |
| >EC21-EC35 # | <7 | <7 | <7 | <7 | 62 | <7 | 53 | <7 | 40 | <7 | <7 | mg/kg | TM5/PM8/PM16 |
| >EC35-EC44 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | mg/kg | TM5/PM8/PM16 |
| Total aromatics C5-44 | <26 | <26 | <26 | <26 | 62 | <26 | 53 | <26 | 40 | <26 | <26 | mg/kg | TM5/PM8/PM16 |
| Total aliphatics and aromatics(C5-44) | <52 | <52 | <52 | <52 | 62 | <52 | 53 | <52 | <52 | <52 | <52 | mg/kg | TM5/PM8/PM16 |
| MTBE # | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 | ug/kg | TM31/PM12 |
| Benzene # | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 | ug/kg | TM31/PM12 |
| Toluene # | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 | ug/kg | TM31/PM12 |
| Ethylbenzene # | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 | ug/kg | TM31/PM12 |
| m/p-Xylene # | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 | ug/kg | TM31/PM12 |
| o-Xylene # | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 | ug/kg | TM31/PM12 |
| Phenol # | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | mg/kg | TM26/PM21 |
| Natural Moisture Content | 42.4 | 20.0 | 59.4 | 32.9 | 50.4 | 24.7 | 40.7 | 15.8 | 60.1 | 25.3 | <0.1 | % | PM4/PM0 |
| Chloride (2:1 Ext BRE) # | - | - | - | - | - | - | - | - | - | - | <0.002 | g/l | TM38/PM20 |
| Hexavalent Chromium # | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | mg/kg | TM38/PM20 |
| Nitrate as NO3 (2:1 Ext BRE) | - | - | - | - | - | - | - | - | - | - | <0.0025 | g/l | TM38/PM20 |
| Sulphate as SO4 (2:1 Ext) # | 0.0134 | 0.0186 | 0.0235 | 0.0319 | 0.0211 | 0.0176 | 0.0130 | 0.0807 | 0.0380 | 0.0633 | <0.0015 | g/l | TM38/PM20 |
| Free Cyanide | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.8 | <0.5 | <0.5 | mg/kg | TM89/PM45 |
| Total Cyanide # | 0.8 | <0.5 | <0.5 | <0.5 | 1.0 | <0.5 | <0.5 | <0.5 | 0.8 | <0.5 | <0.5 | mg/kg | TM89/PM45 |
| Total Organic Carbon # | 4.52 | 1.88 | 4.07 | 1.84 | 5.67 | 0.49 | 18.13 | 0.30 | 6.09 | 0.25 | <0.02 | % | TM21/PM24 |

Please include all sections of this report if it is reproduced

Please see attached notes for all abbreviations and acronyms

Please see attached notes for all abbreviations and acronyms

Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather
JE Job No.: 18/5000

Report : Solid

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

| J E Sample No. | 121-124 | 125-128 | 129-132 | 133-136 | 137-140 | 141-144 | 145-148 | 149-152 | 153-156 | 157-160 | Please see attached notes for all abbreviations and acronyms | | |
|---------------------------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--|-------|------------------------|
| Sample ID | 57629/TP#16-1 | 57629/TP#16-2 | 57629/TP#17-1 | 57629/TP#17-2 | 57629/TP#18-1 | 57629/TP#18-2 | 57629/TP#19-1 | 57629/TP#19-2 | 57629/TP#20-1 | 57629/TP#20-2 | | | |
| Depth | | | | | | | | | | | | | |
| COC No / misc | | | | | | | | | | | | | |
| Containers | V J T | V J T | V J T | V J T | V J T | V J T | V J T | V J T | V J T | V J T | | | |
| Sample Date | 03/04/2018 | 03/04/2018 | 03/04/2018 | 03/04/2018 | 03/04/2018 | 03/04/2018 | 03/04/2018 | 03/04/2018 | 03/04/2018 | 03/04/2018 | | | |
| Sample Type | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil | | | |
| Batch Number | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| Date of Receipt | 05/04/2018 | 05/04/2018 | 05/04/2018 | 05/04/2018 | 05/04/2018 | 05/04/2018 | 05/04/2018 | 05/04/2018 | 05/04/2018 | 05/04/2018 | LOD/LOR | Units | Method No. |
| TPH CWG | | | | | | | | | | | | | |
| Aliphatics | | | | | | | | | | | | | |
| >C5-C6 # | <0.1 ^{SV} | <0.1 | <0.1 | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 | mg/kg | TM36/PM12 |
| >C6-C8 # | <0.1 ^{SV} | <0.1 | <0.1 | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 | mg/kg | TM36/PM12 |
| >C8-C10 | <0.1 ^{SV} | <0.1 | <0.1 | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 | mg/kg | TM36/PM12 |
| >C10-C12 # | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | mg/kg | TM5/PM8/PM16 |
| >C12-C16 # | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | mg/kg | TM5/PM8/PM16 |
| >C16-C21 # | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | mg/kg | TM5/PM8/PM16 |
| >C21-C35 # | <7 | <7 | <7 | <7 | <7 | <7 | 19 | <7 | <7 | <7 | <7 | mg/kg | TM5/PM8/PM16 |
| >C35-C44 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | mg/kg | TM5/PM8/PM16 |
| Total aliphatics C5-44 | <26 | <26 | <26 | <26 | <26 | <26 | <26 | <26 | <26 | <26 | <26 | mg/kg | TM5/PM8/PM16/PM12/PM10 |
| Aromatics | | | | | | | | | | | | | |
| >C5-EC7 # | <0.1 ^{SV} | <0.1 | <0.1 | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 | mg/kg | TM36/PM12 |
| >EC7-EC8 # | <0.1 ^{SV} | <0.1 | <0.1 | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 | mg/kg | TM36/PM12 |
| >EC8-EC10 # | <0.1 ^{SV} | <0.1 | <0.1 | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 | mg/kg | TM36/PM12 |
| >EC10-EC12 # | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | mg/kg | TM5/PM8/PM16 |
| >EC12-EC16 # | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | mg/kg | TM5/PM8/PM16 |
| >EC16-EC21 # | <7 | <7 | <7 | <7 | 24 | <7 | <7 | <7 | <7 | <7 | <7 | mg/kg | TM5/PM8/PM16 |
| >EC21-EC35 # | 38 | <7 | <7 | <7 | 111 | <7 | 117 | <7 | 23 | <7 | <7 | mg/kg | TM5/PM8/PM16 |
| >EC35-EC44 | <7 | <7 | <7 | <7 | <7 | <7 | 26 | <7 | <7 | <7 | <7 | mg/kg | TM5/PM8/PM16 |
| Total aromatics C5-44 | 38 | <26 | <26 | <26 | 135 | <26 | 143 | <26 | <26 | <26 | <26 | mg/kg | TM5/PM8/PM16/PM12/PM10 |
| Total aliphatics and aromatics(C5-44) | <52 | <52 | <52 | <52 | 135 | <52 | 143 | <52 | <52 | <52 | <52 | mg/kg | TM5/PM8/PM16/PM12/PM10 |
| MTBE # | <5 ^{SV} | <5 | <5 | <5 | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 | ug/kg | TM31/PM12 |
| Benzene # | <5 ^{SV} | <5 | <5 | <5 | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 | ug/kg | TM31/PM12 |
| Toluene # | <5 ^{SV} | <5 | <5 | <5 | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 | ug/kg | TM31/PM12 |
| Ethylbenzene # | <5 ^{SV} | <5 | <5 | <5 | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 | ug/kg | TM31/PM12 |
| m/p-Xylene # | <5 ^{SV} | <5 | <5 | <5 | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 | ug/kg | TM31/PM12 |
| o-Xylene # | <5 ^{SV} | <5 | <5 | <5 | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 | ug/kg | TM31/PM12 |
| Phenol # | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | mg/kg | TM26/PM21 |
| Natural Moisture Content | 37.4 | 25.9 | 25.1 | 23.7 | 32.0 | 18.9 | 25.8 | 19.9 | 25.6 | 15.6 | <0.1 | % | PM4/PM0 |
| Chloride (2:1 Ext BRE) # | - | - | - | - | - | <0.002 | - | <0.002 | - | <0.002 | <0.002 | g/l | TM38/PM20 |
| Hexavalent Chromium # | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | mg/kg | TM38/PM20 |
| Nitrate as NO3 (2:1 Ext BRE) | - | - | - | - | - | <0.0025 | - | 0.0046 | - | <0.0025 | <0.0025 | g/l | TM38/PM20 |
| Sulphate as SO4 (2:1 Ext) # | 0.0162 | 0.0083 | 0.0281 | 0.0199 | 0.0102 | 0.0108 | 0.0065 | 0.0141 | 0.0103 | 0.0137 | <0.0015 | g/l | TM38/PM20 |
| Free Cyanide | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.7 | <0.5 | <0.5 | <0.5 | mg/kg | TM89/PM45 |
| Total Cyanide # | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.7 | <0.5 | <0.5 | <0.5 | mg/kg | TM89/PM45 |
| Total Organic Carbon # | 15.00 | 1.52 | 2.51 | 0.49 | 12.42 | 0.19 | 9.23 | 0.70 | 12.82 | 0.38 | <0.02 | % | TM21/PM24 |

Please include all sections of this report if it is reproduced

Please see attached notes for all abbreviations and acronyms

Please see attached notes for all abbreviations and acronyms

Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather
JE Job No.: 18/5000

Report : Solid

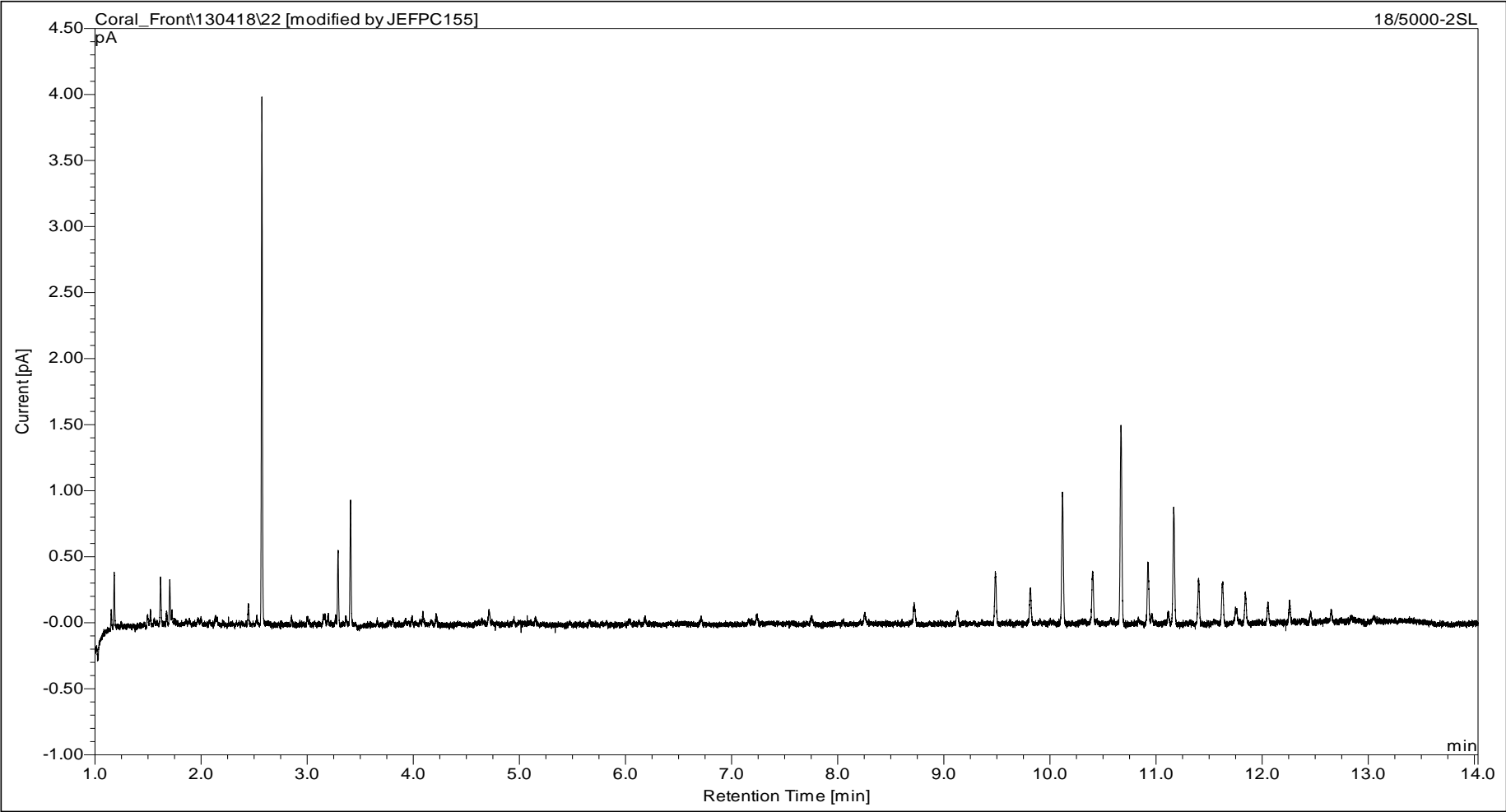
Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

| J E Sample No. | 161-164 | 165-168 | 169-172 | 173-176 | 177-180 | 181-184 | 185-188 | 189-192 | | | Please see attached notes for all abbreviations and acronyms | | |
|---------------------------------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--|--|--|-------|------------------------|
| Sample ID | 57629/TP#21-1 | 57629/TP#21-2 | 57629/TP#22-1 | 57629/TP#22-2 | 57629/TP#23-1 | 57629/TP#23-2 | 57629/TP#24-1 | 57629/TP#24-2 | | | | | |
| Depth | | | | | | | | | | | | | |
| COC No / misc | | | | | | | | | | | | | |
| Containers | V J T | V J T | V J T | V J T | V J T | V J T | V J T | V J T | | | | | |
| Sample Date | 03/04/2018 | 03/04/2018 | 03/04/2018 | 03/04/2018 | 03/04/2018 | 03/04/2018 | 03/04/2018 | 03/04/2018 | | | | | |
| Sample Type | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil | | | | | |
| Batch Number | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | |
| Date of Receipt | 05/04/2018 | 05/04/2018 | 05/04/2018 | 05/04/2018 | 05/04/2018 | 05/04/2018 | 05/04/2018 | 05/04/2018 | | | LOD/LOR | Units | Method No. |
| TPH CWG | | | | | | | | | | | | | |
| Aliphatics | | | | | | | | | | | | | |
| >C5-C6 # | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | | | <0.1 | mg/kg | TM36/PM12 |
| >C6-C8 # | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | | | <0.1 | mg/kg | TM36/PM12 |
| >C8-C10 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | | | <0.1 | mg/kg | TM36/PM12 |
| >C10-C12 # | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | | | <0.2 | mg/kg | TM5/PM8/PM16 |
| >C12-C16 # | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | | | <4 | mg/kg | TM5/PM8/PM16 |
| >C16-C21 # | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | | | <7 | mg/kg | TM5/PM8/PM16 |
| >C21-C35 # | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | | | <7 | mg/kg | TM5/PM8/PM16 |
| >C35-C44 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | | | <7 | mg/kg | TM5/PM8/PM16 |
| Total aliphatics C5-44 | <26 | <26 | <26 | <26 | <26 | <26 | <26 | <26 | | | <26 | mg/kg | TM5/PM8/PM16/PM12/PM10 |
| Aromatics | | | | | | | | | | | | | |
| >C5-EC7 # | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | | | <0.1 | mg/kg | TM36/PM12 |
| >EC7-EC8 # | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | | | <0.1 | mg/kg | TM36/PM12 |
| >EC8-EC10 # | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | <0.1 ^{SV} | <0.1 | | | <0.1 | mg/kg | TM36/PM12 |
| >EC10-EC12 # | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | | | <0.2 | mg/kg | TM5/PM8/PM16 |
| >EC12-EC16 # | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | | | <4 | mg/kg | TM5/PM8/PM16 |
| >EC16-EC21 # | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | | | <7 | mg/kg | TM5/PM8/PM16 |
| >EC21-EC35 # | 38 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | | | <7 | mg/kg | TM5/PM8/PM16 |
| >EC35-EC44 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | <7 | | | <7 | mg/kg | TM5/PM8/PM16 |
| Total aromatics C5-44 | 38 | <26 | <26 | <26 | <26 | <26 | <26 | <26 | | | <26 | mg/kg | TM5/PM8/PM16/PM12/PM10 |
| Total aliphatics and aromatics(C5-44) | <52 | <52 | <52 | <52 | <52 | <52 | <52 | <52 | | | <52 | mg/kg | TM5/PM8/PM16/PM12/PM10 |
| MTBE # | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 ^{SV} | <5 | | | <5 | ug/kg | TM31/PM12 |
| Benzene # | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 ^{SV} | <5 | | | <5 | ug/kg | TM31/PM12 |
| Toluene # | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 ^{SV} | <5 | | | <5 | ug/kg | TM31/PM12 |
| Ethylbenzene # | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 ^{SV} | <5 | | | <5 | ug/kg | TM31/PM12 |
| m/p-Xylene # | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 ^{SV} | <5 | | | <5 | ug/kg | TM31/PM12 |
| o-Xylene # | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 ^{SV} | <5 | <5 ^{SV} | <5 | | | <5 | ug/kg | TM31/PM12 |
| Phenol # | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | | | <0.01 | mg/kg | TM26/PM21 |
| Natural Moisture Content | 25.8 | 21.1 | 32.3 | 25.2 | 42.3 | 20.7 | 25.5 | 34.7 | | | <0.1 | % | PM4/PM0 |
| Chloride (2:1 Ext BRE) # | - | <0.002 | - | <0.002 | - | - | - | - | | | <0.002 | g/l | TM38/PM20 |
| Hexavalent Chromium # | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | | | <0.3 | mg/kg | TM38/PM20 |
| Nitrate as NO3 (2:1 Ext BRE) | - | 0.0050 | - | <0.0025 | - | - | - | - | | | <0.0025 | g/l | TM38/PM20 |
| Sulphate as SO4 (2:1 Ext) # | 0.0697 | 0.0067 | 0.0202 | 0.0415 | 0.0287 | 0.0499 | 0.0134 | 0.0516 | | | <0.0015 | g/l | TM38/PM20 |
| Free Cyanide | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | | | <0.5 | mg/kg | TM89/PM45 |
| Total Cyanide # | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | | | <0.5 | mg/kg | TM89/PM45 |
| Total Organic Carbon # | 9.21 | 1.70 | 3.87 | 0.34 | 6.45 | 0.55 | 7.21 | 0.59 | | | <0.02 | % | TM21/PM24 |

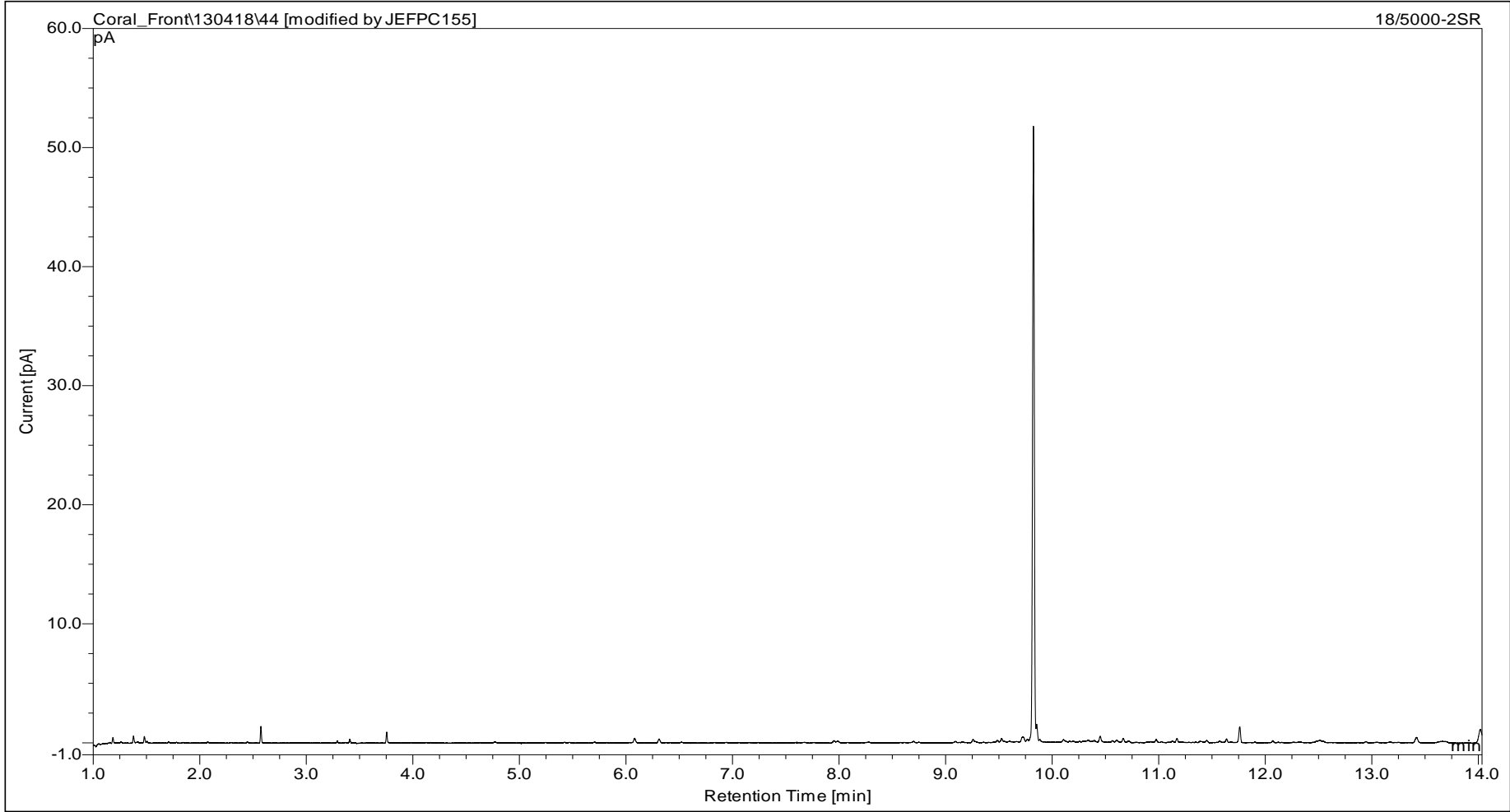
Please see attached notes for all abbreviations and acronyms

Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 2
Sample Identity: 57629/TP#1-1
Depth:
Matrix: Solid

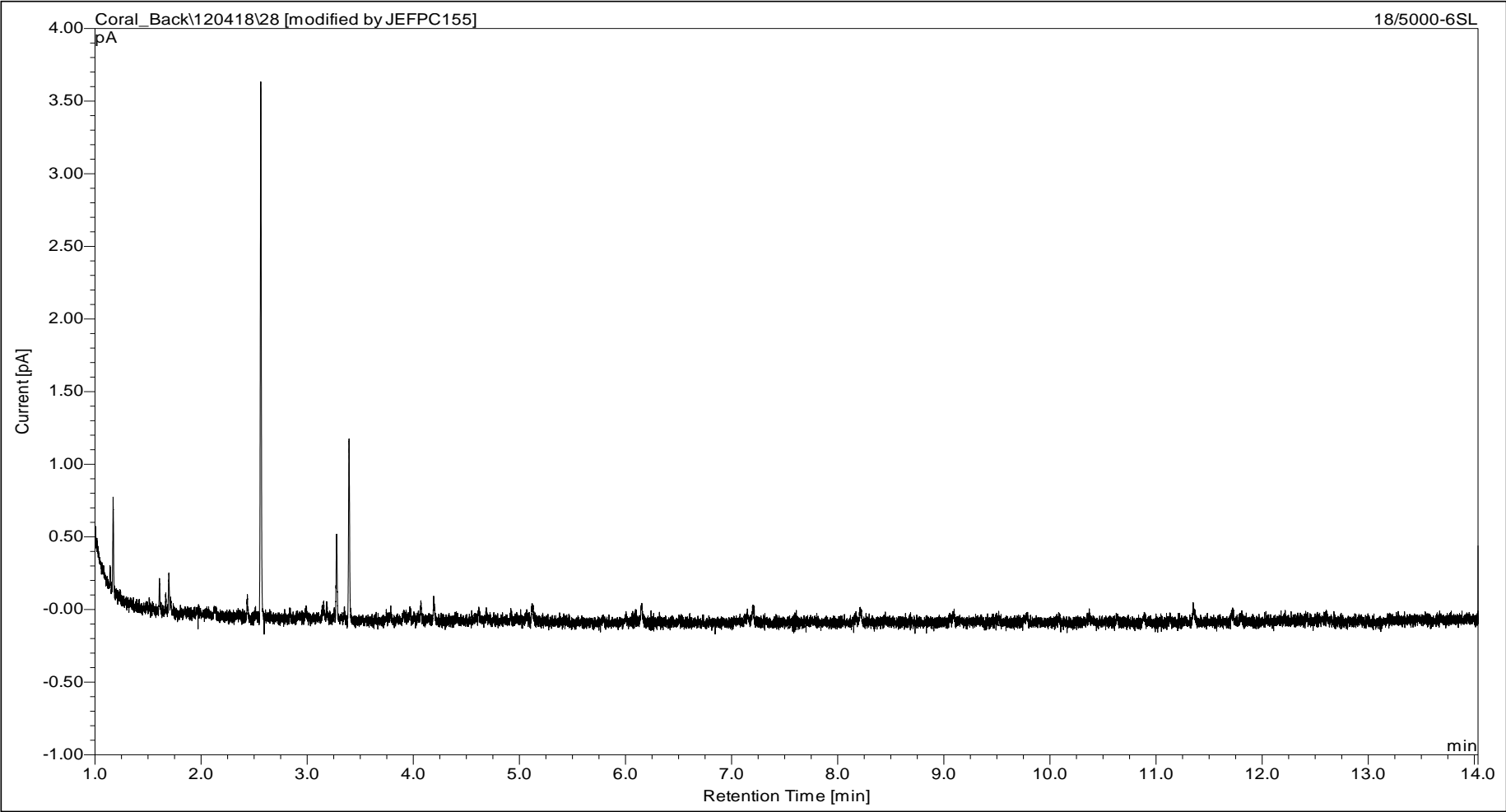


| | | | |
|--------------|---------------------|------------------|--------------|
| Client Name: | Kiwa CMT Testing | JE Job No.: | 18/5000 |
| Reference: | 57629 (13275) | JE Sample No.: | 2 |
| Location: | Eastwood Landfill | Sample Identity: | 57629/TP#1-1 |
| Contact: | Brandon Fairweather | Depth: | |
| | | Matrix: | Solid |



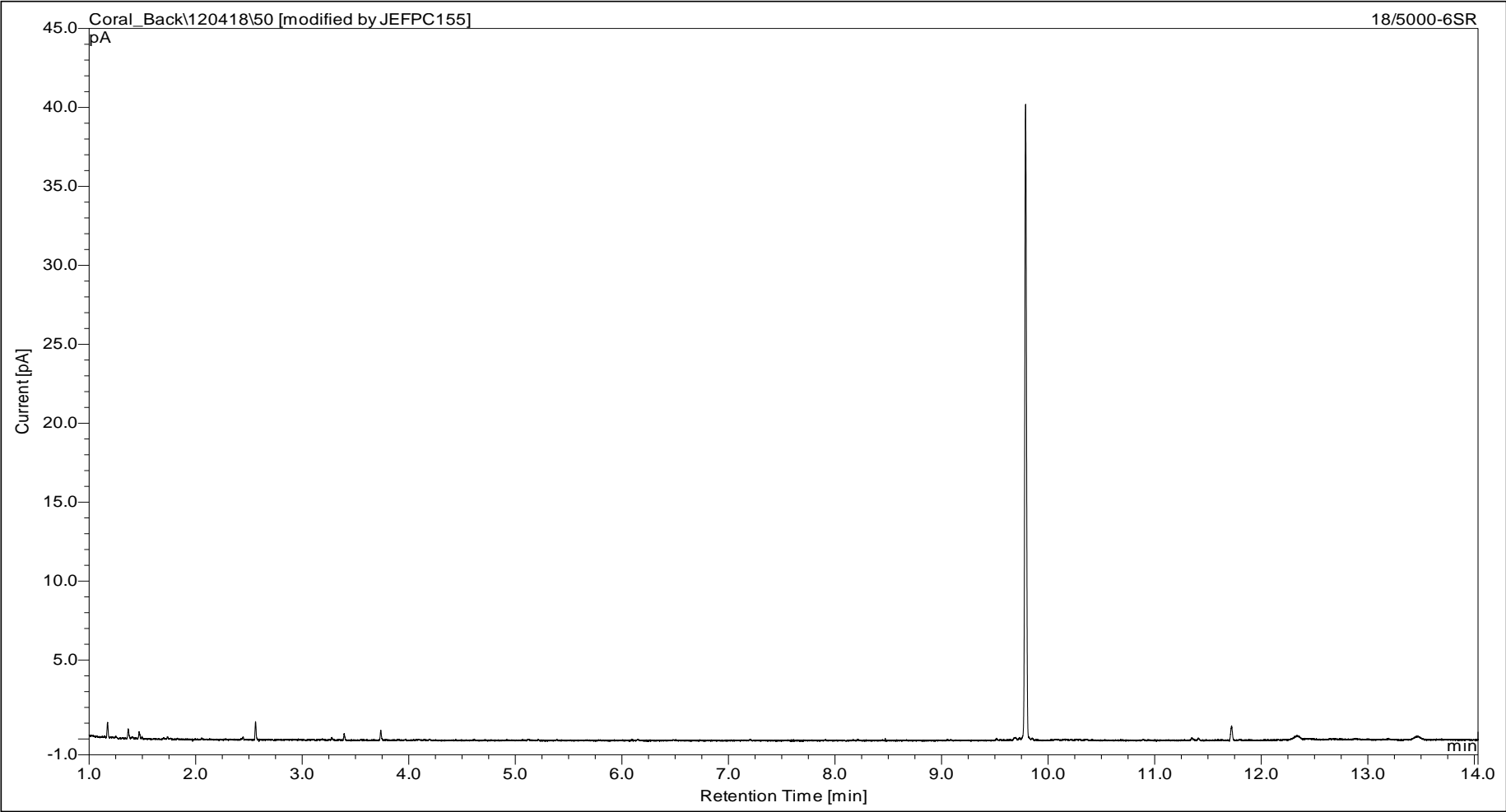
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 6
Sample Identity: 57629/TP#1-2
Depth:
Matrix: Solid

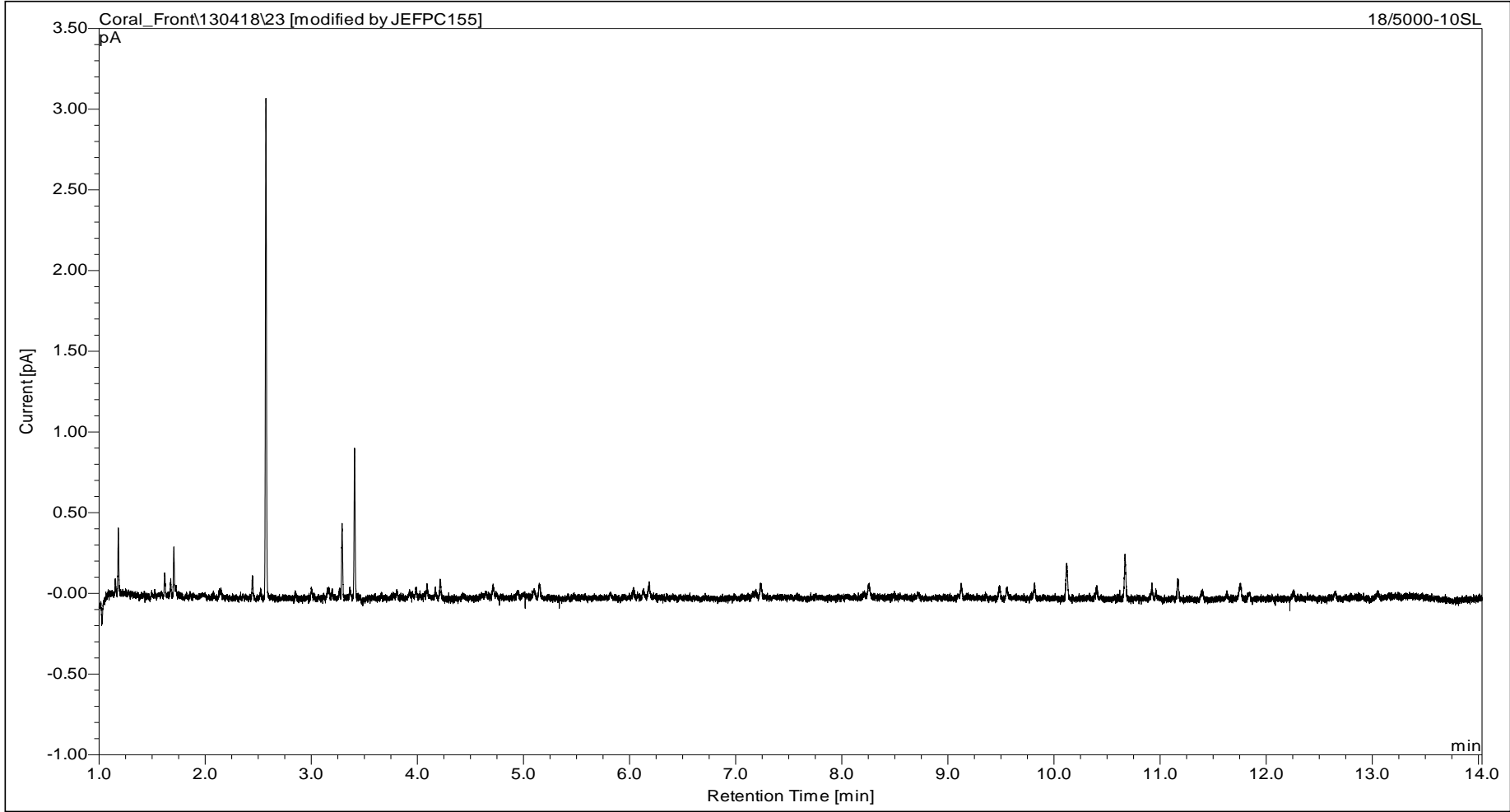


Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 6
Sample Identity: 57629/TP#1-2
Depth:
Matrix: Solid

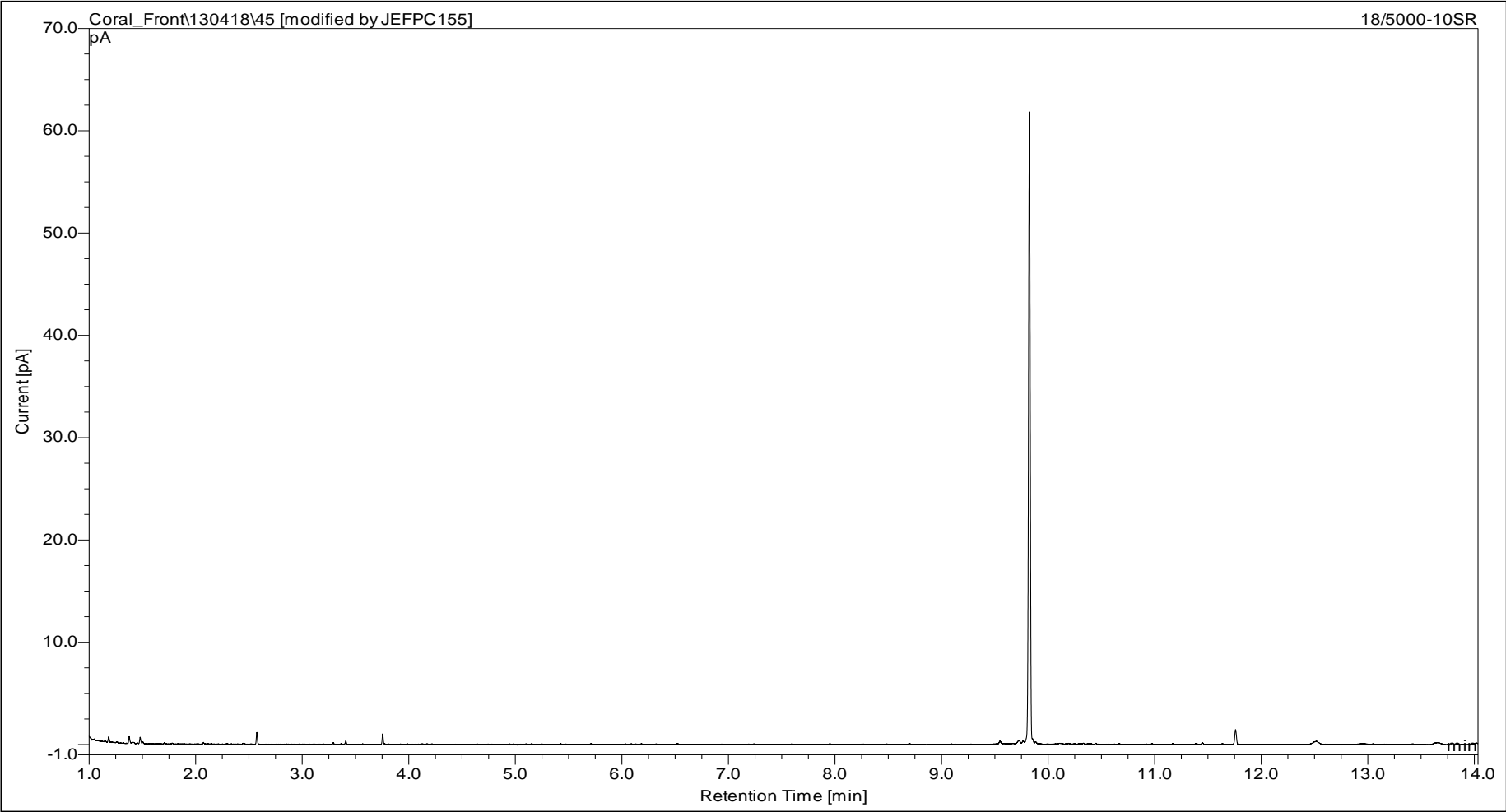


| | | | |
|--------------|---------------------|------------------|--------------|
| Client Name: | Kiwa CMT Testing | JE Job No.: | 18/5000 |
| Reference: | 57629 (13275) | JE Sample No.: | 10 |
| Location: | Eastwood Landfill | Sample Identity: | 57629/TP#2-1 |
| Contact: | Brandon Fairweather | Depth: | |
| | | Matrix: | Solid |



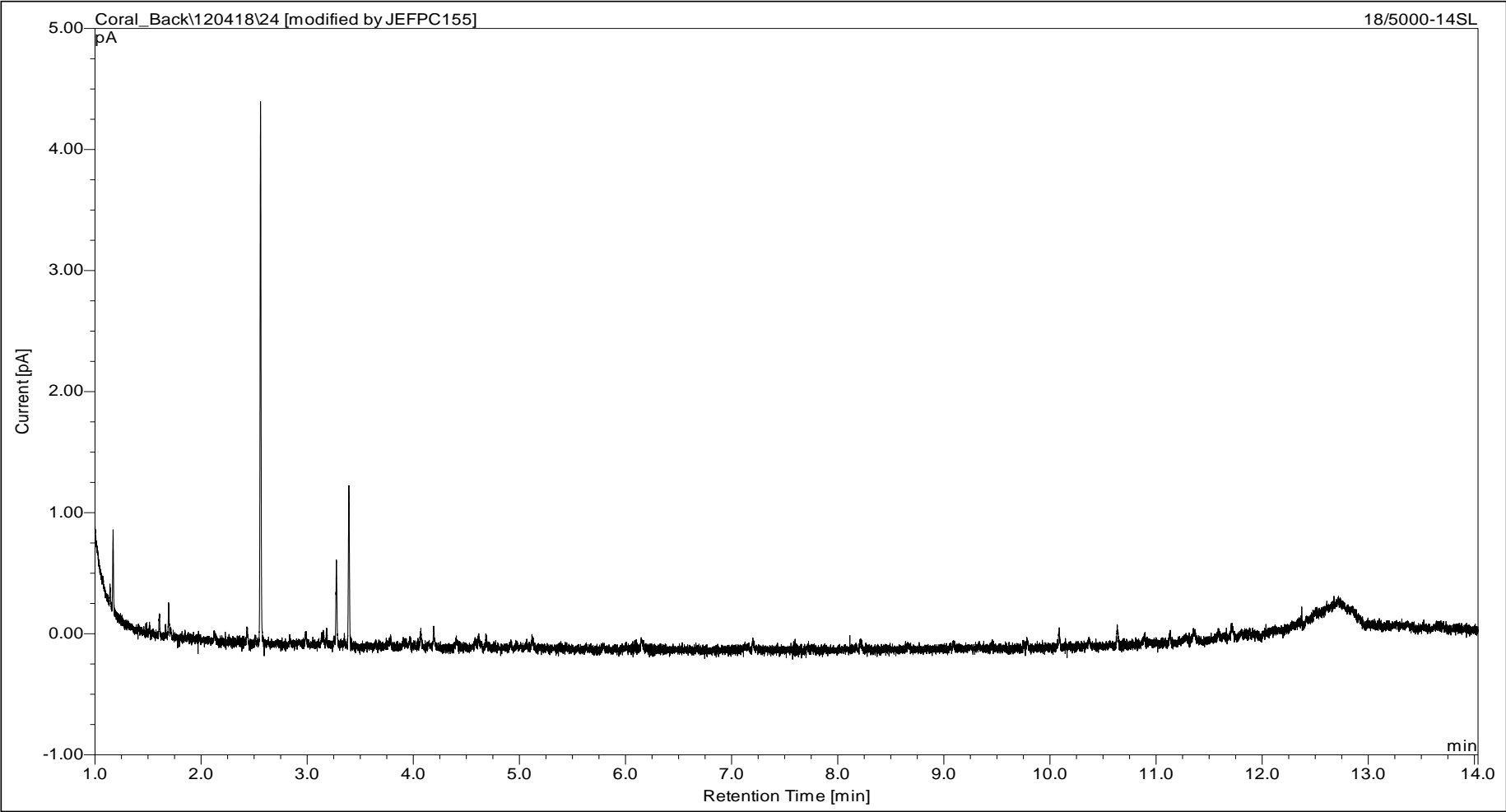
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 10
Sample Identity: 57629/TP#2-1
Depth:
Matrix: Solid



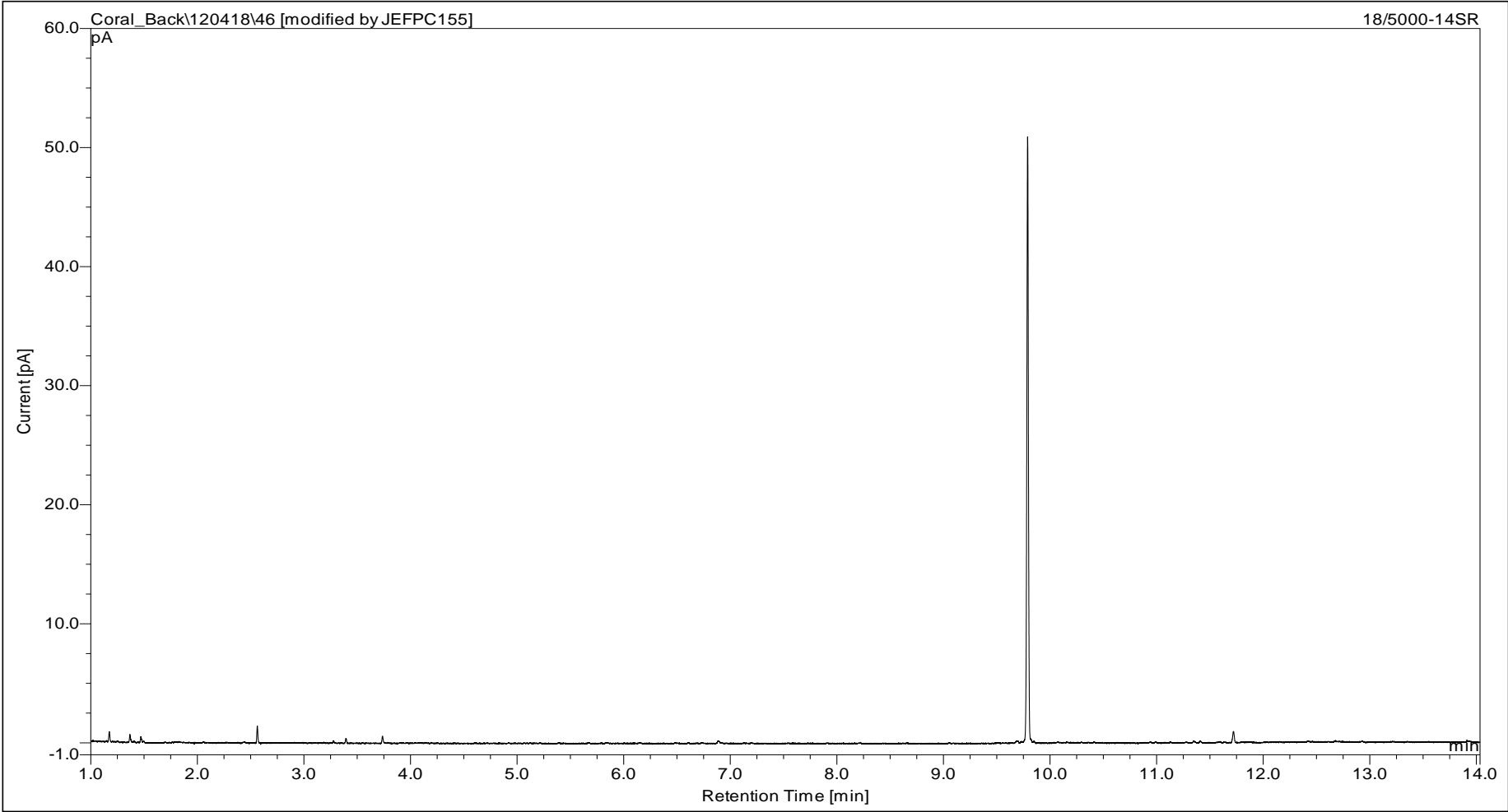
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 14
Sample Identity: 57629/TP#2-2
Depth:
Matrix: Solid

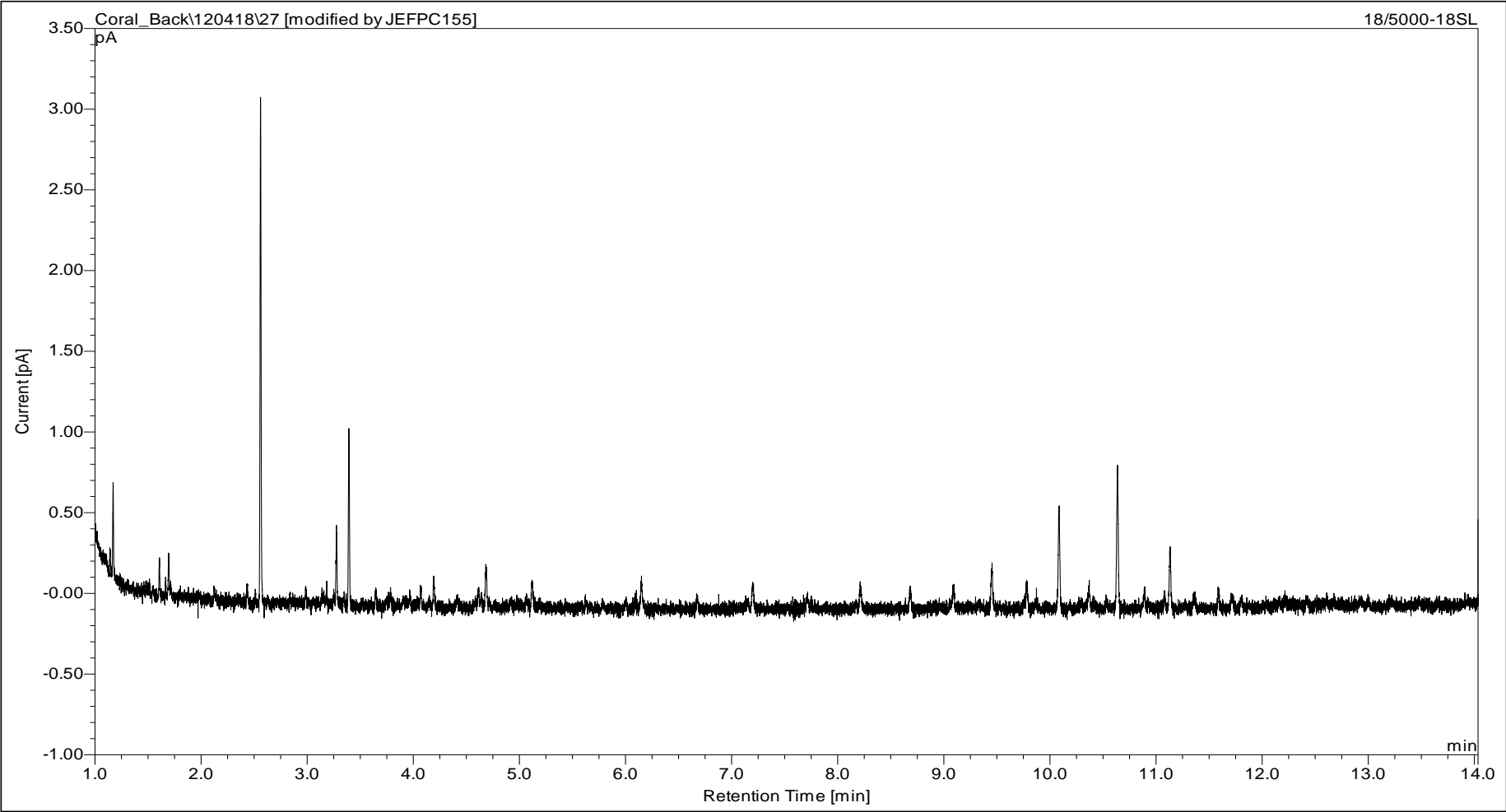


Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

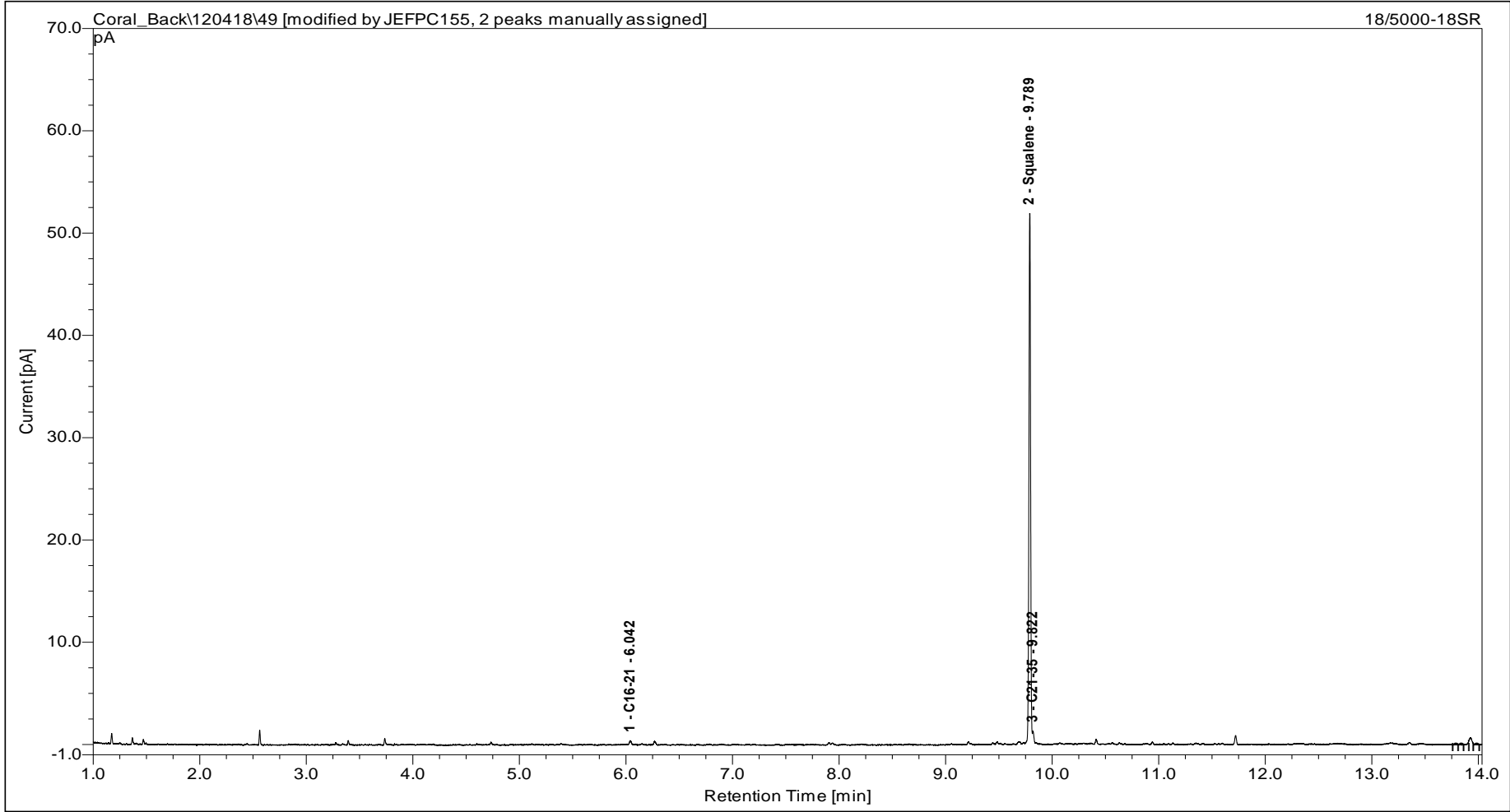
JE Job No.: 18/5000
JE Sample No.: 14
Sample Identity: 57629/TP#2-2
Depth:
Matrix: Solid



| | | | |
|--------------|---------------------|------------------|--------------|
| Client Name: | Kiwa CMT Testing | JE Job No.: | 18/5000 |
| Reference: | 57629 (13275) | JE Sample No.: | 18 |
| Location: | Eastwood Landfill | Sample Identity: | 57629/TP#3-1 |
| Contact: | Brandon Fairweather | Depth: | |
| | | Matrix: | Solid |

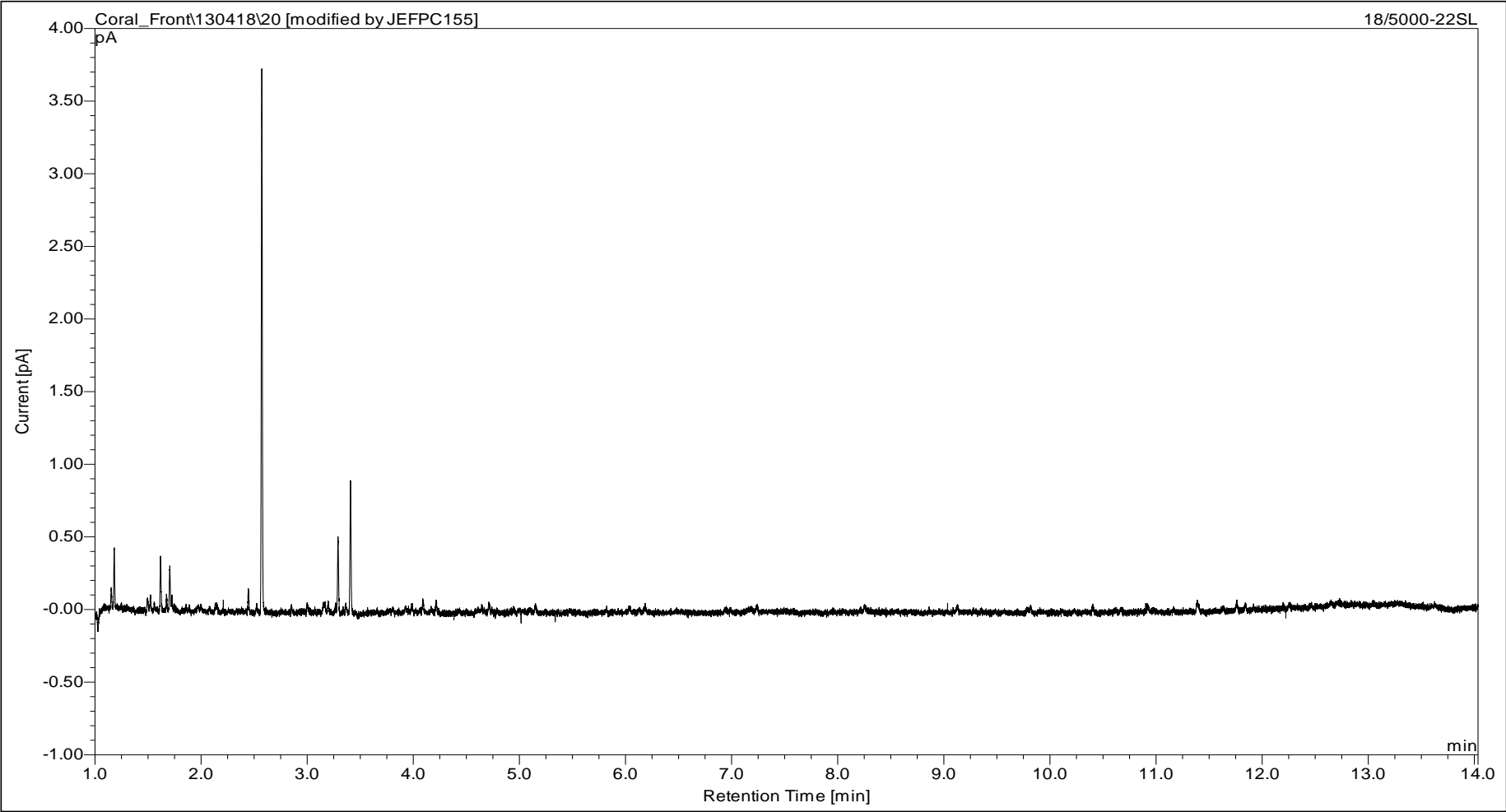


| | | | |
|--------------|---------------------|------------------|--------------|
| Client Name: | Kiwa CMT Testing | JE Job No.: | 18/5000 |
| Reference: | 57629 (13275) | JE Sample No.: | 18 |
| Location: | Eastwood Landfill | Sample Identity: | 57629/TP#3-1 |
| Contact: | Brandon Fairweather | Depth: | |
| | | Matrix: | Solid |



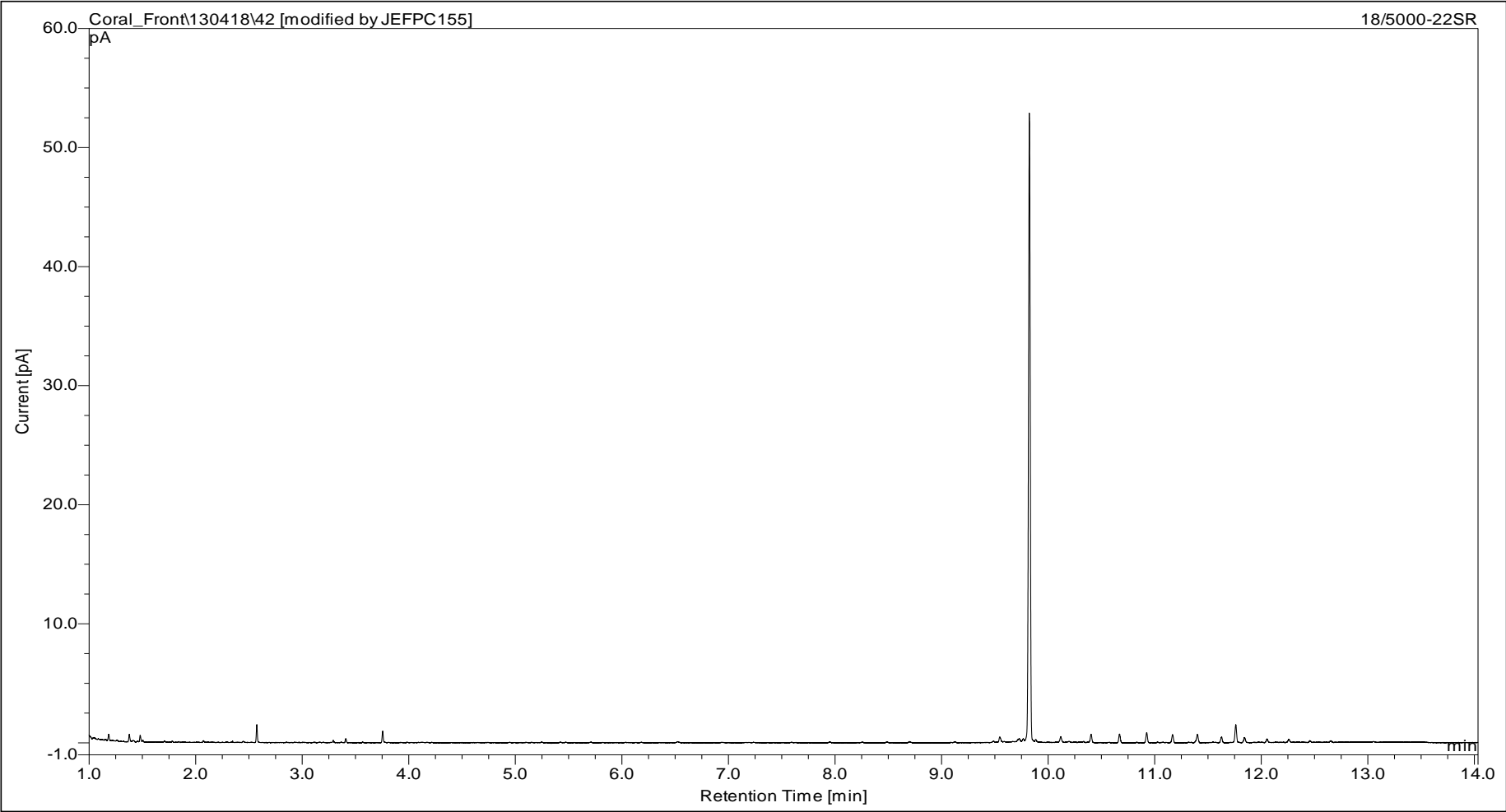
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 22
Sample Identity: 57629/TP#3-2
Depth:
Matrix: Solid

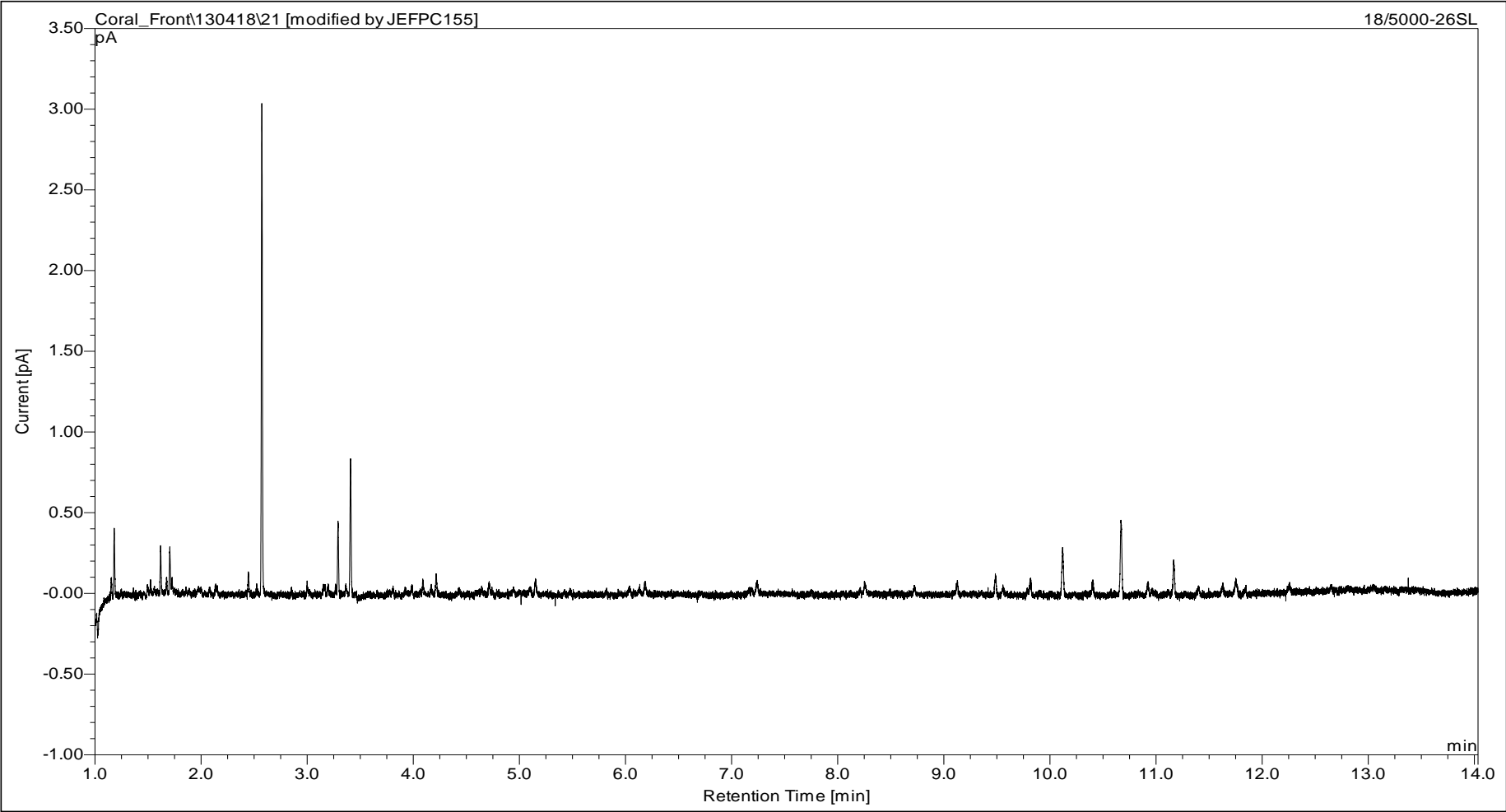


Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

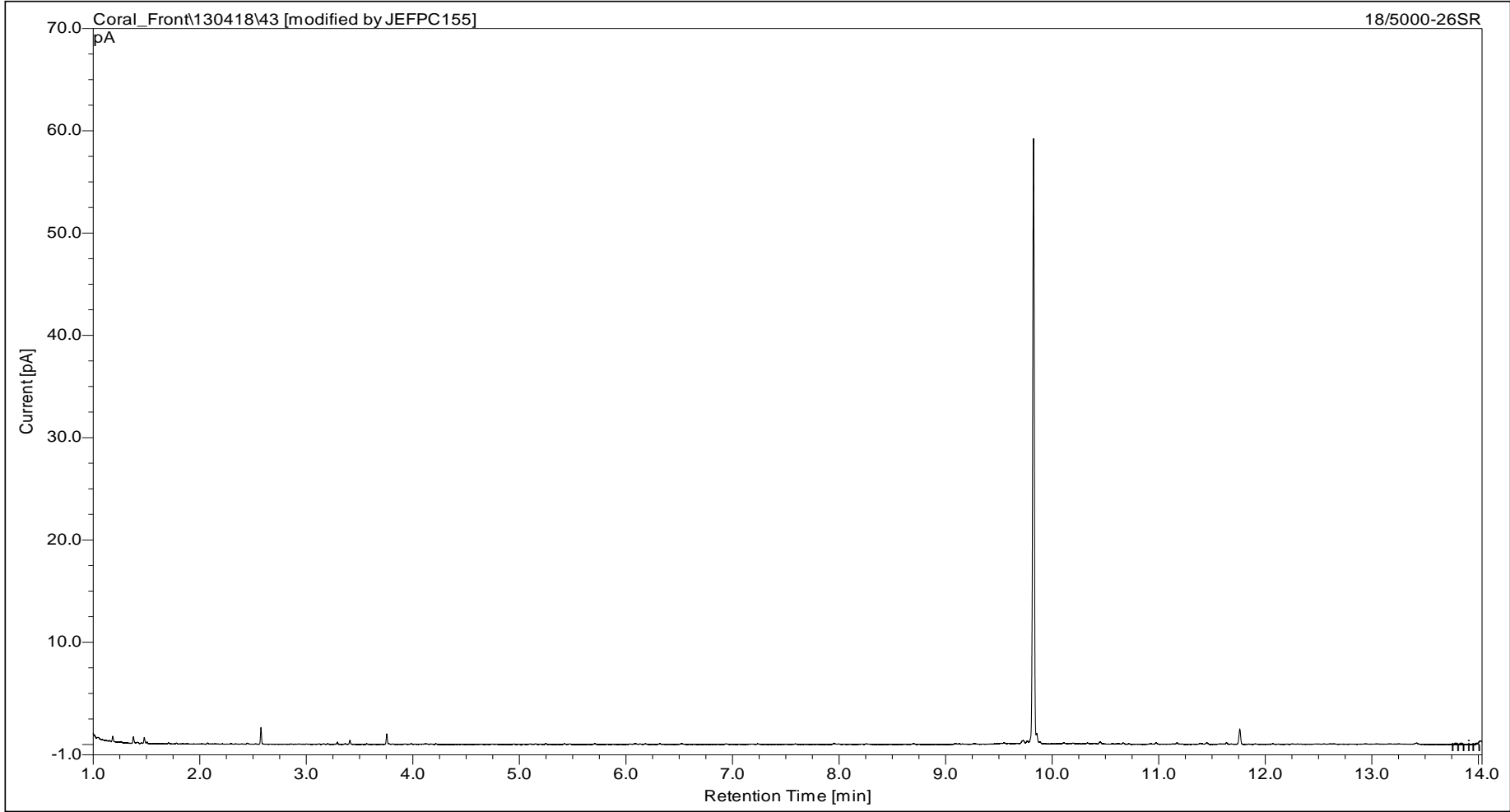
JE Job No.: 18/5000
JE Sample No.: 22
Sample Identity: 57629/TP#3-2
Depth:
Matrix: Solid



| | | | |
|--------------|---------------------|------------------|--------------|
| Client Name: | Kiwa CMT Testing | JE Job No.: | 18/5000 |
| Reference: | 57629 (13275) | JE Sample No.: | 26 |
| Location: | Eastwood Landfill | Sample Identity: | 57629/TP#4-1 |
| Contact: | Brandon Fairweather | Depth: | |
| | | Matrix: | Solid |

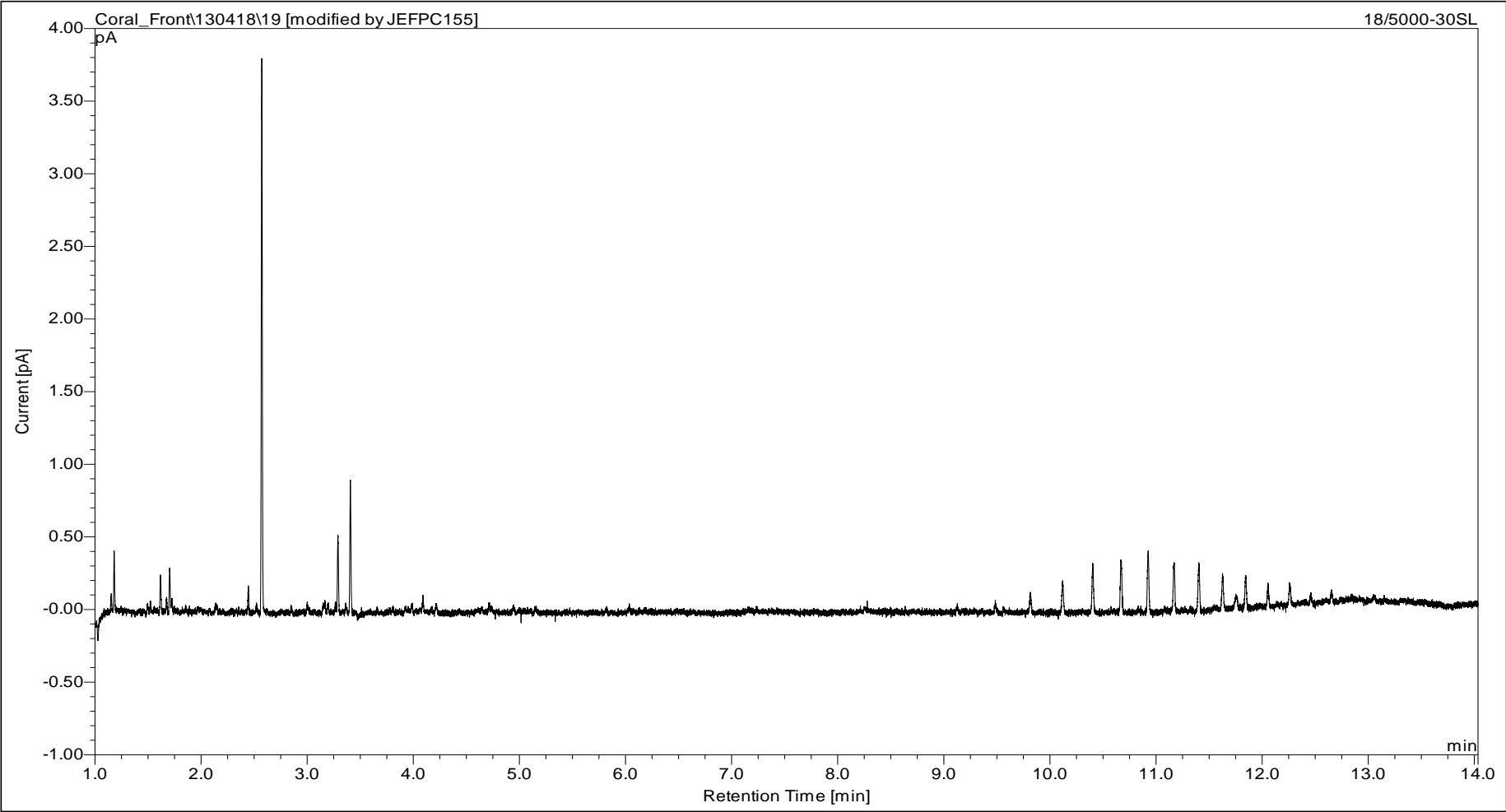


| | | | |
|--------------|---------------------|------------------|--------------|
| Client Name: | Kiwa CMT Testing | JE Job No.: | 18/5000 |
| Reference: | 57629 (13275) | JE Sample No.: | 26 |
| Location: | Eastwood Landfill | Sample Identity: | 57629/TP#4-1 |
| Contact: | Brandon Fairweather | Depth: | |
| | | Matrix: | Solid |

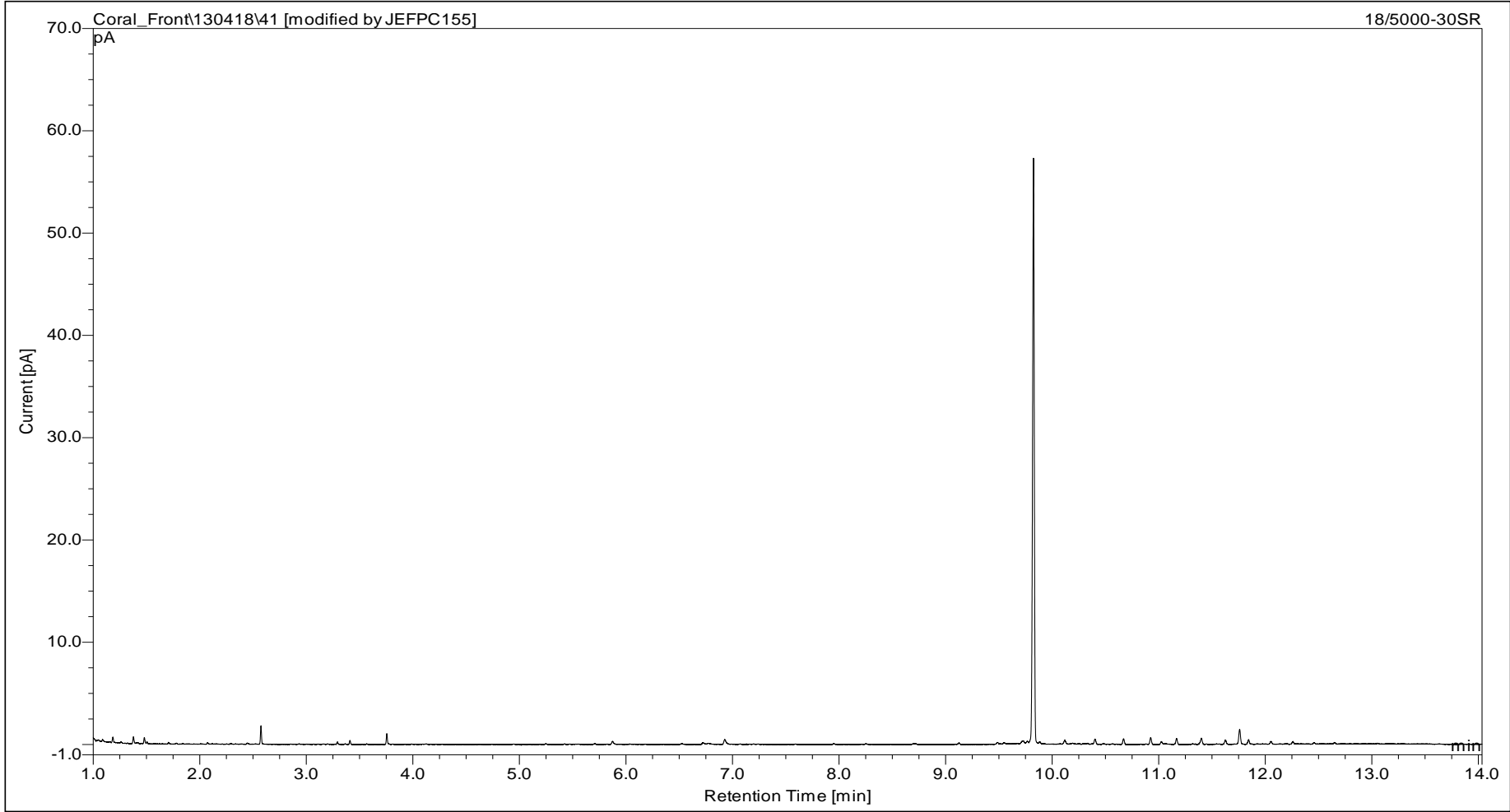


Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 30
Sample Identity: 57629/TP#4-2
Depth:
Matrix: Solid

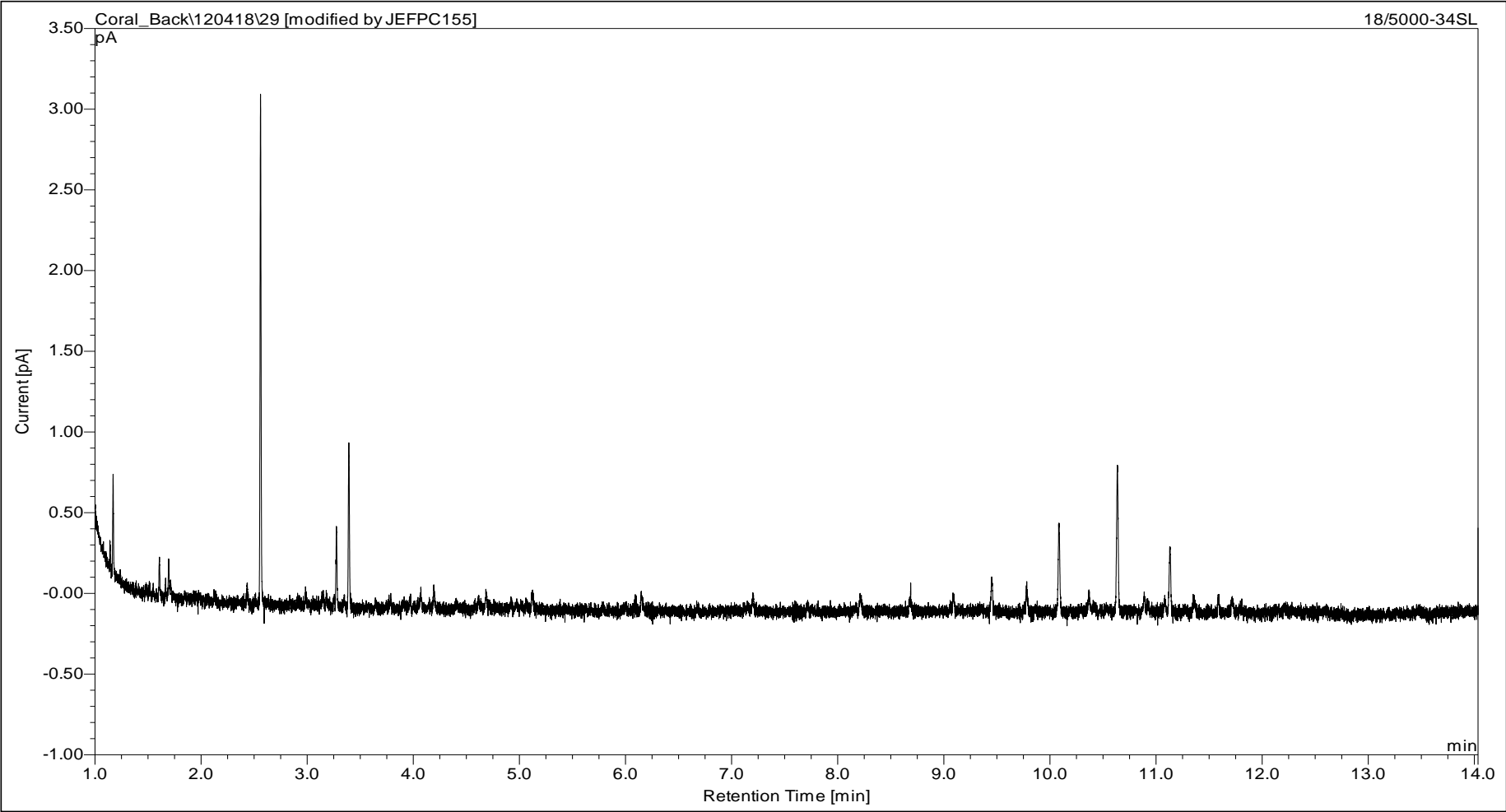


| | | | |
|--------------|---------------------|------------------|--------------|
| Client Name: | Kiwa CMT Testing | JE Job No.: | 18/5000 |
| Reference: | 57629 (13275) | JE Sample No.: | 30 |
| Location: | Eastwood Landfill | Sample Identity: | 57629/TP#4-2 |
| Contact: | Brandon Fairweather | Depth: | |
| | | Matrix: | Solid |



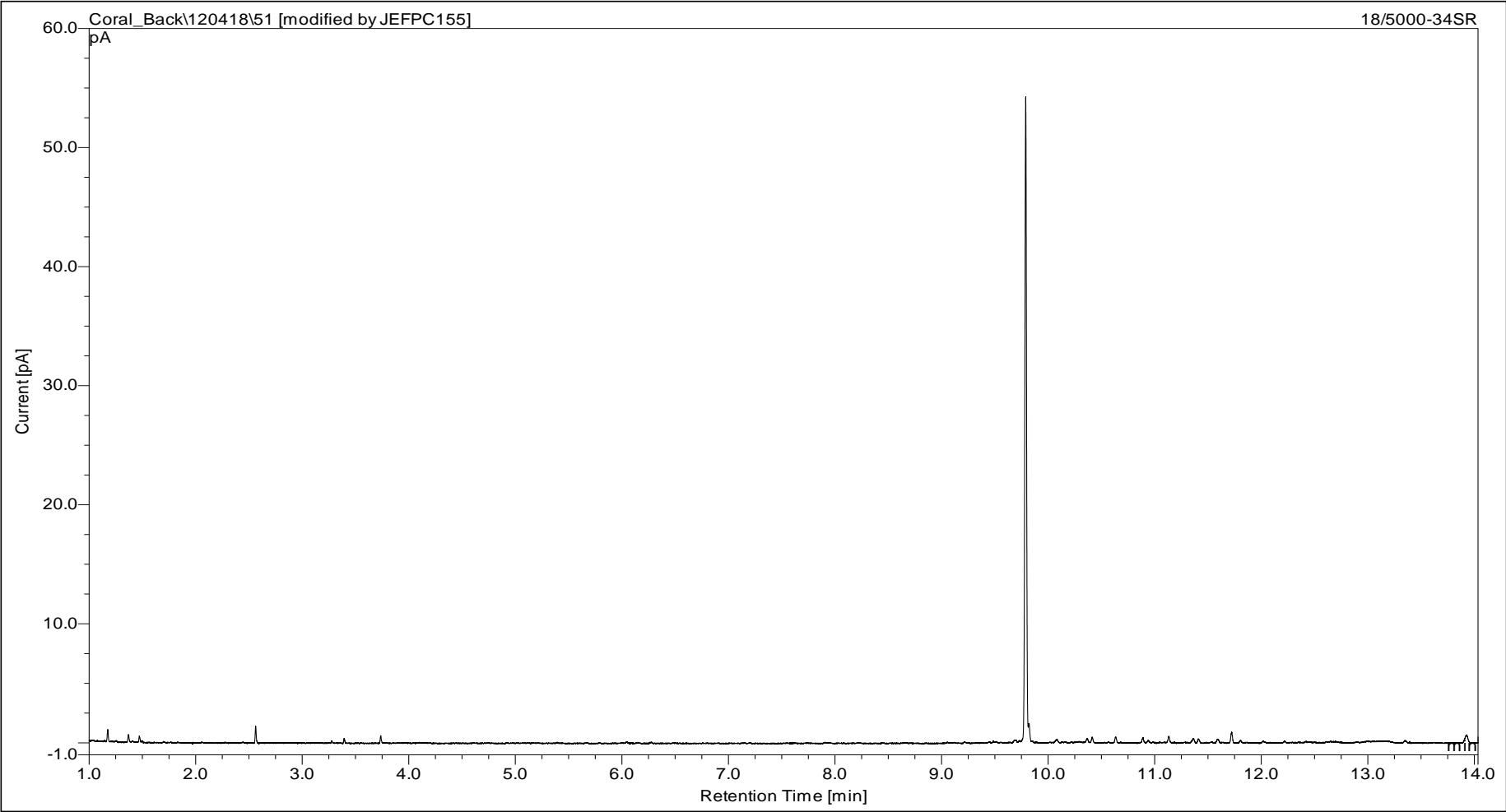
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 34
Sample Identity: 57629/TP#5-1
Depth:
Matrix: Solid



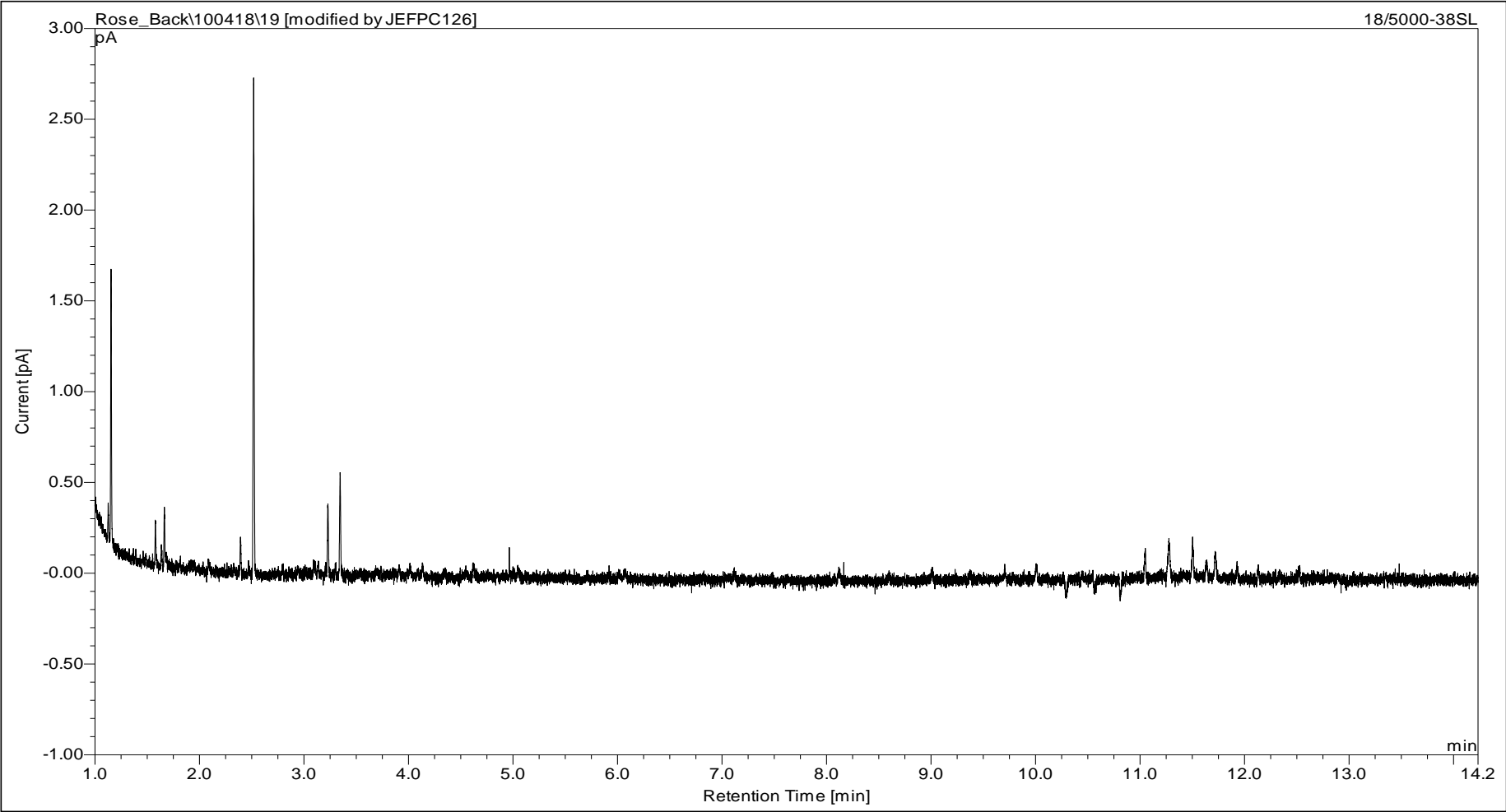
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 34
Sample Identity: 57629/TP#5-1
Depth:
Matrix: Solid



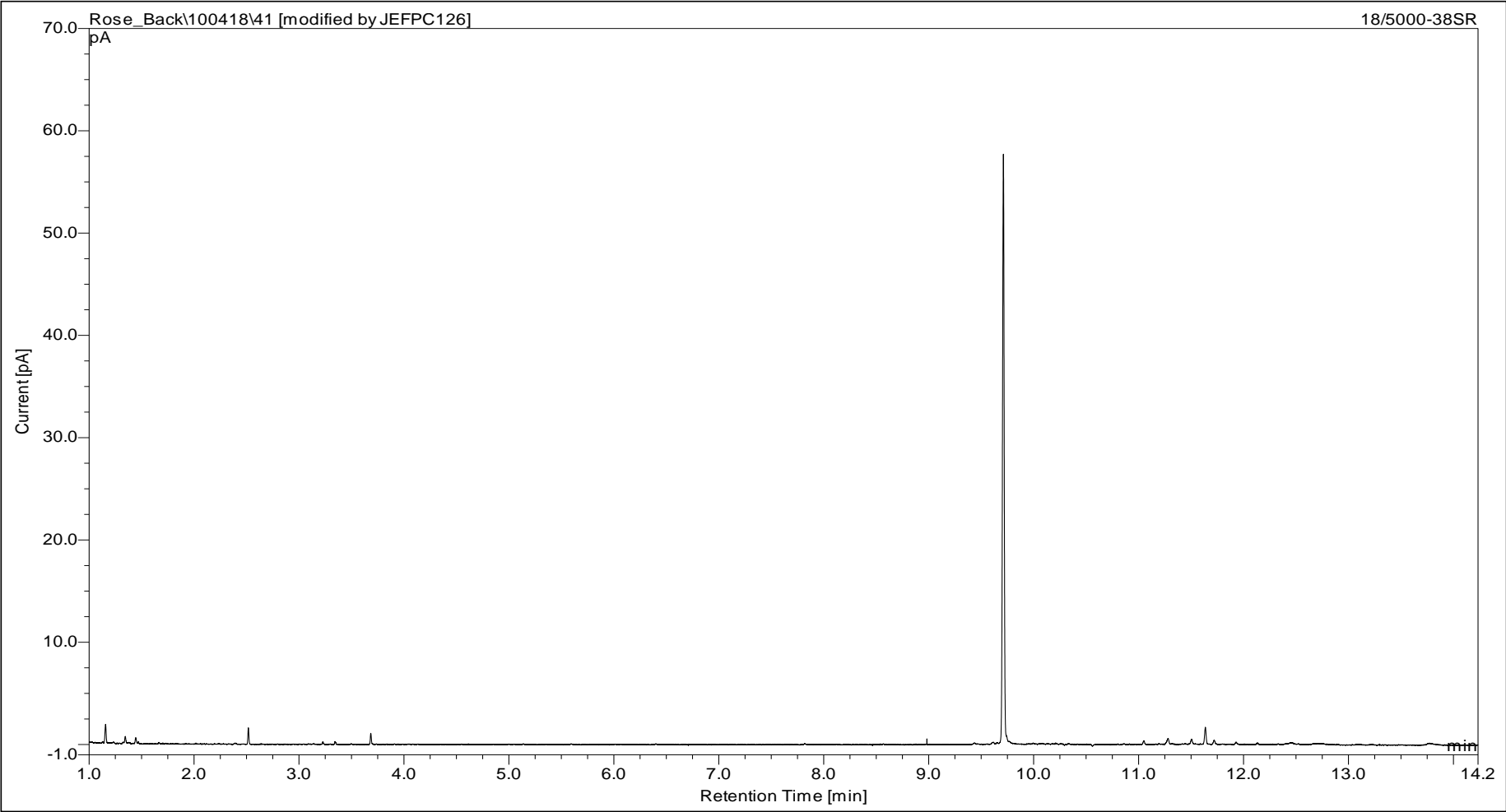
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 38
Sample Identity: 57629/TP#5-2
Depth:
Matrix: Solid

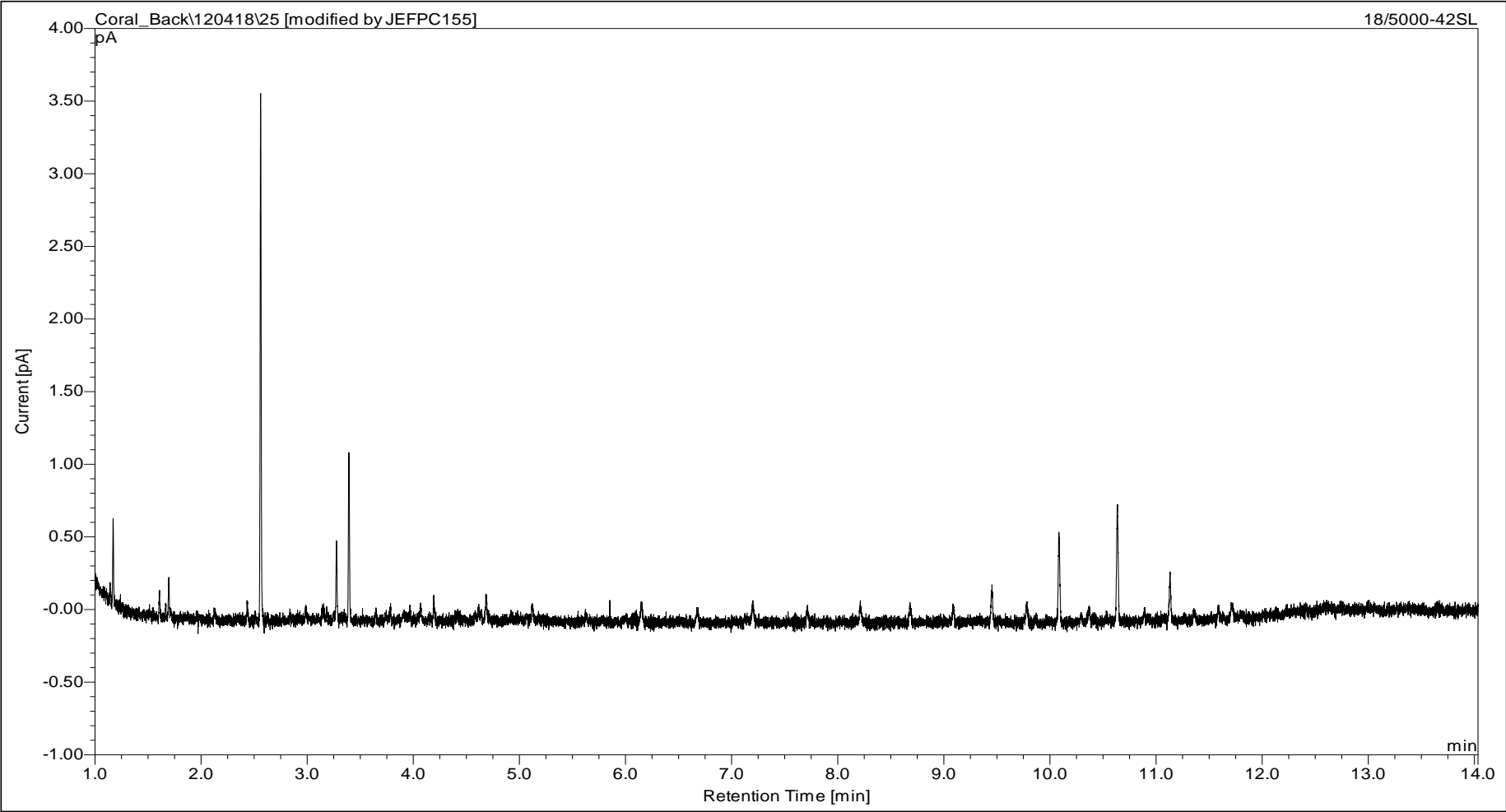


Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 38
Sample Identity: 57629/TP#5-2
Depth:
Matrix: Solid

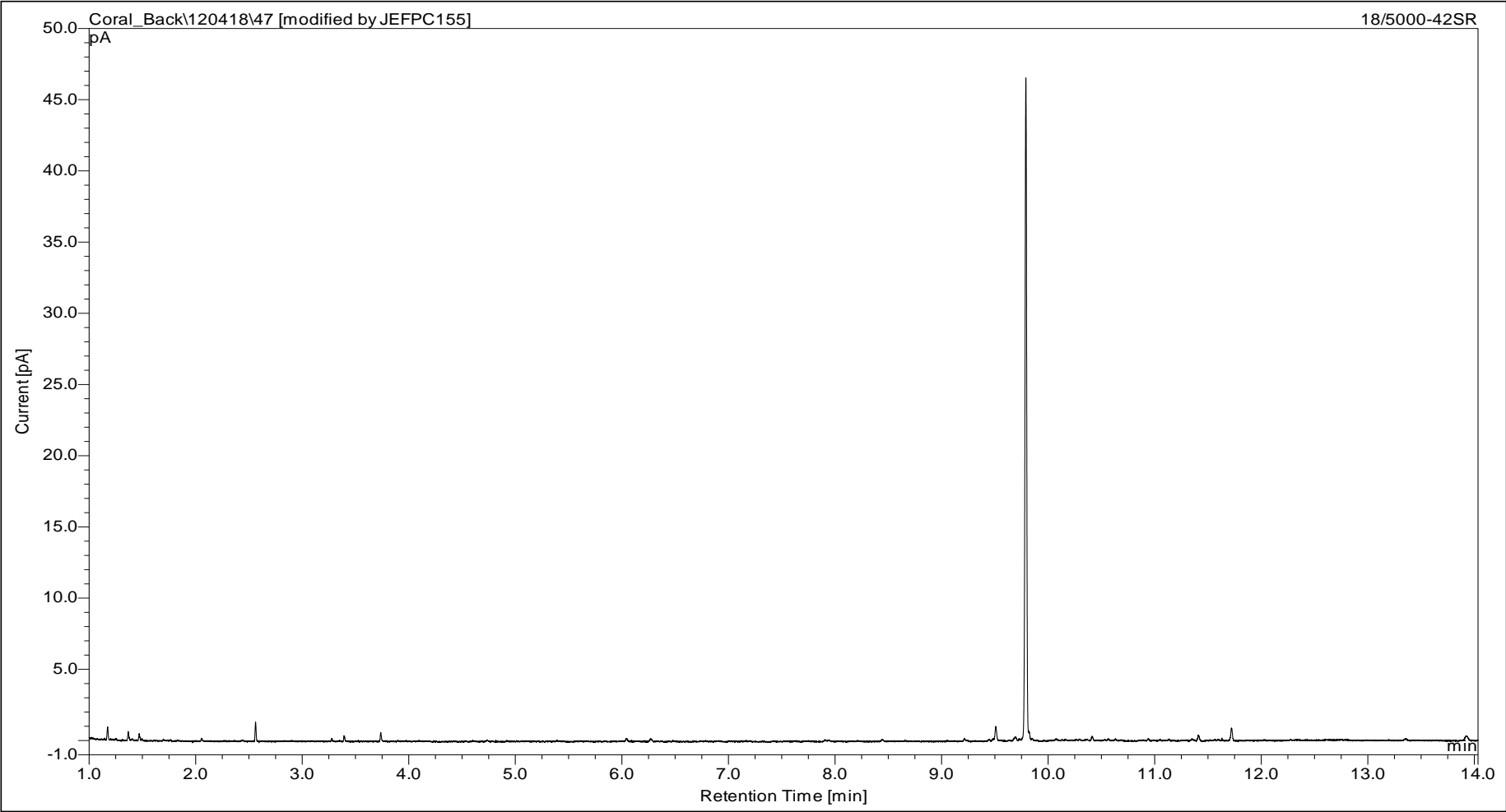


| | | | |
|--------------|---------------------|------------------|--------------|
| Client Name: | Kiwa CMT Testing | JE Job No.: | 18/5000 |
| Reference: | 57629 (13275) | JE Sample No.: | 42 |
| Location: | Eastwood Landfill | Sample Identity: | 57629/TP#6-1 |
| Contact: | Brandon Fairweather | Depth: | |
| | | Matrix: | Solid |



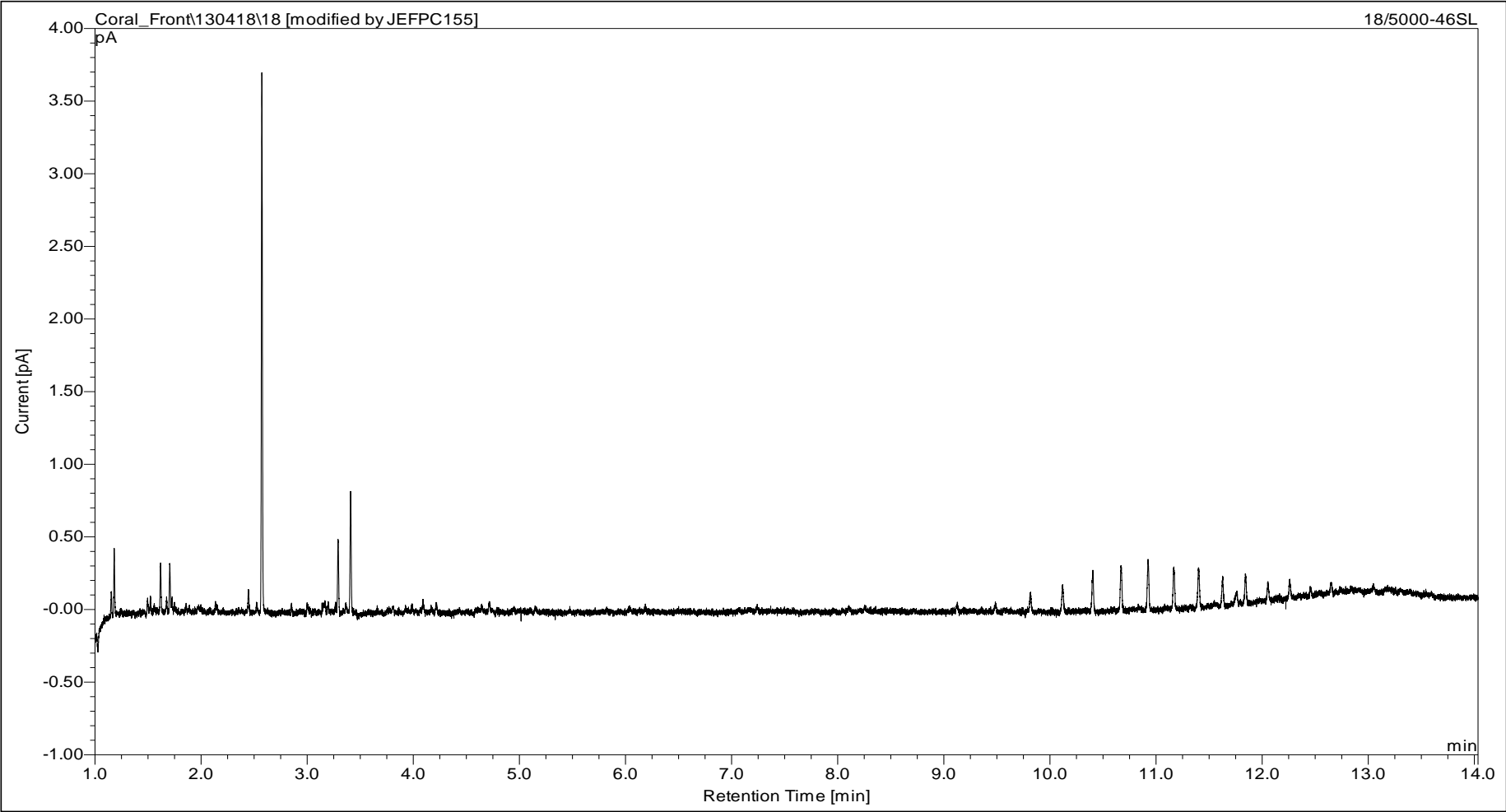
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 42
Sample Identity: 57629/TP#6-1
Depth:
Matrix: Solid



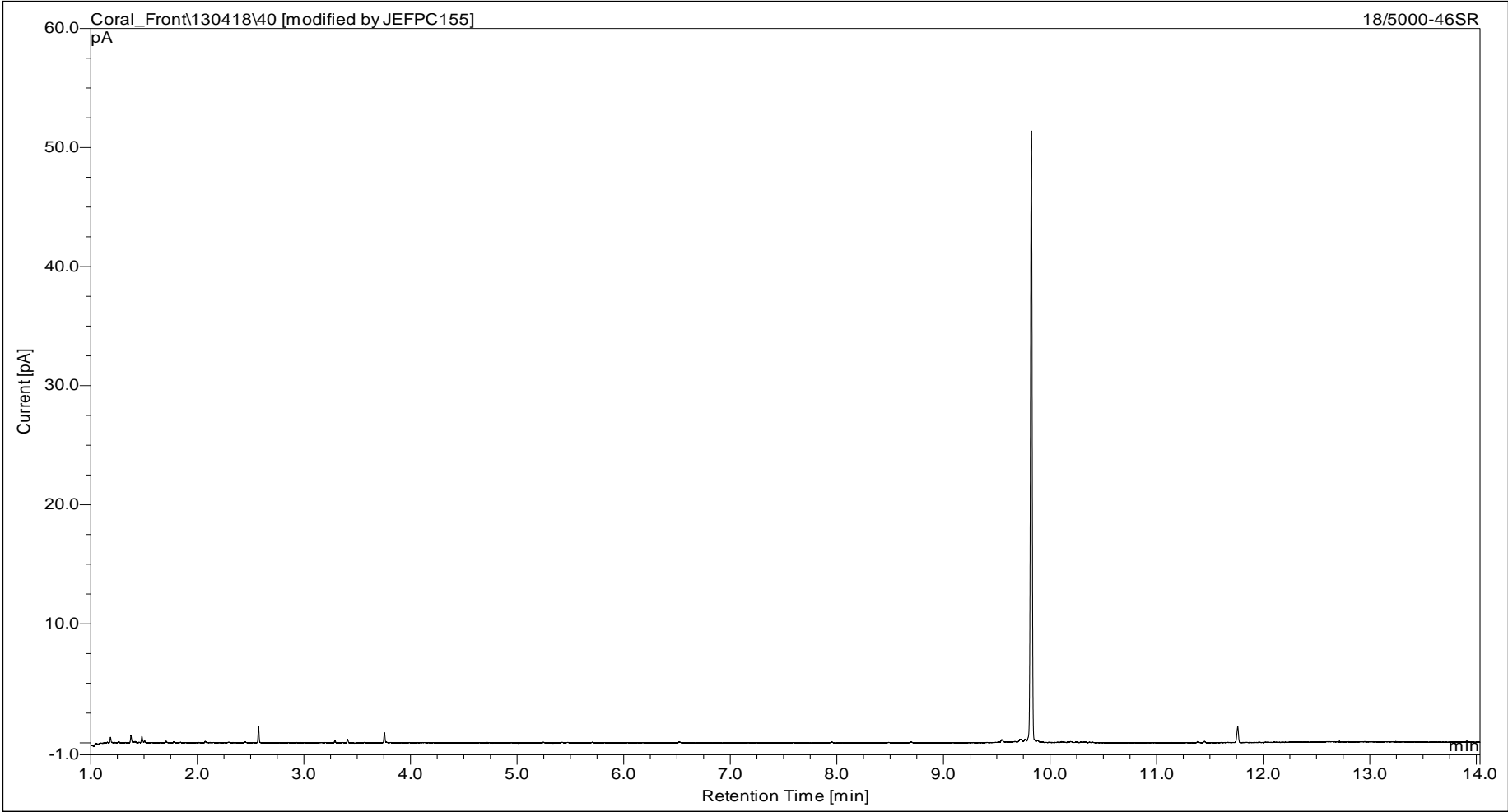
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 46
Sample Identity: 57629/TP#6-2
Depth:
Matrix: Solid

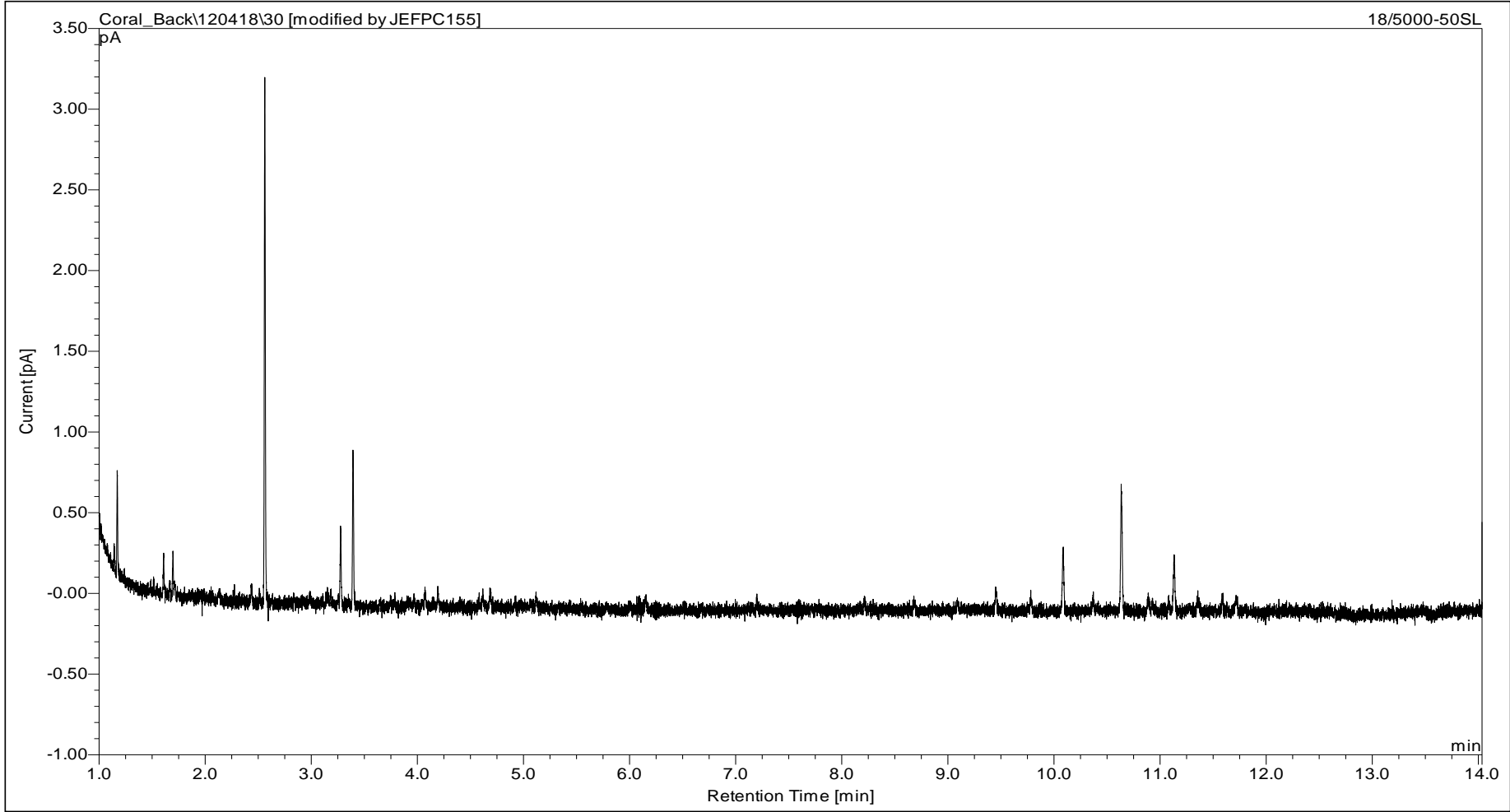


Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 46
Sample Identity: 57629/TP#6-2
Depth:
Matrix: Solid

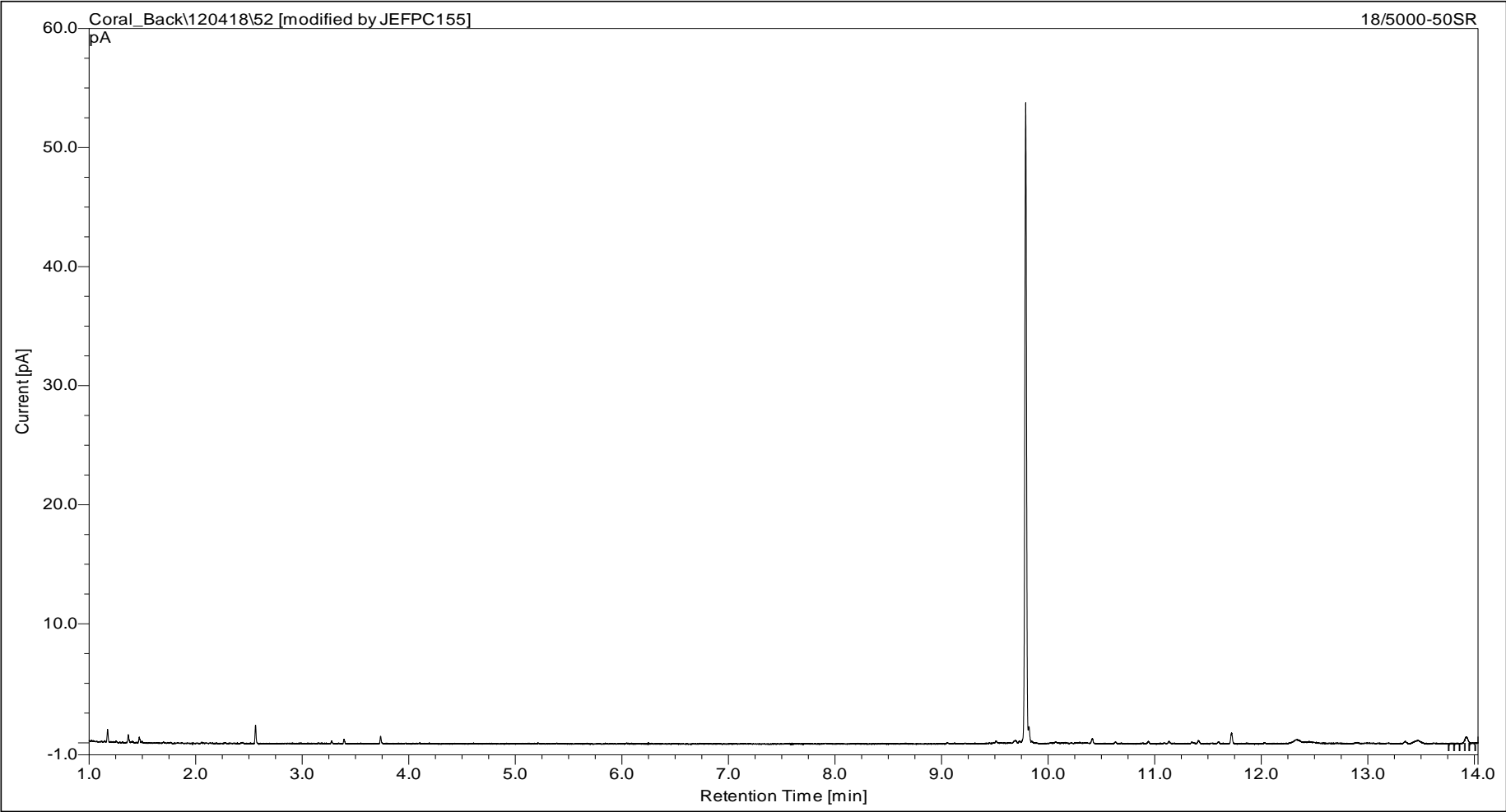


| | | | |
|--------------|---------------------|------------------|--------------|
| Client Name: | Kiwa CMT Testing | JE Job No.: | 18/5000 |
| Reference: | 57629 (13275) | JE Sample No.: | 50 |
| Location: | Eastwood Landfill | Sample Identity: | 57629/TP#7-1 |
| Contact: | Brandon Fairweather | Depth: | |
| | | Matrix: | Solid |



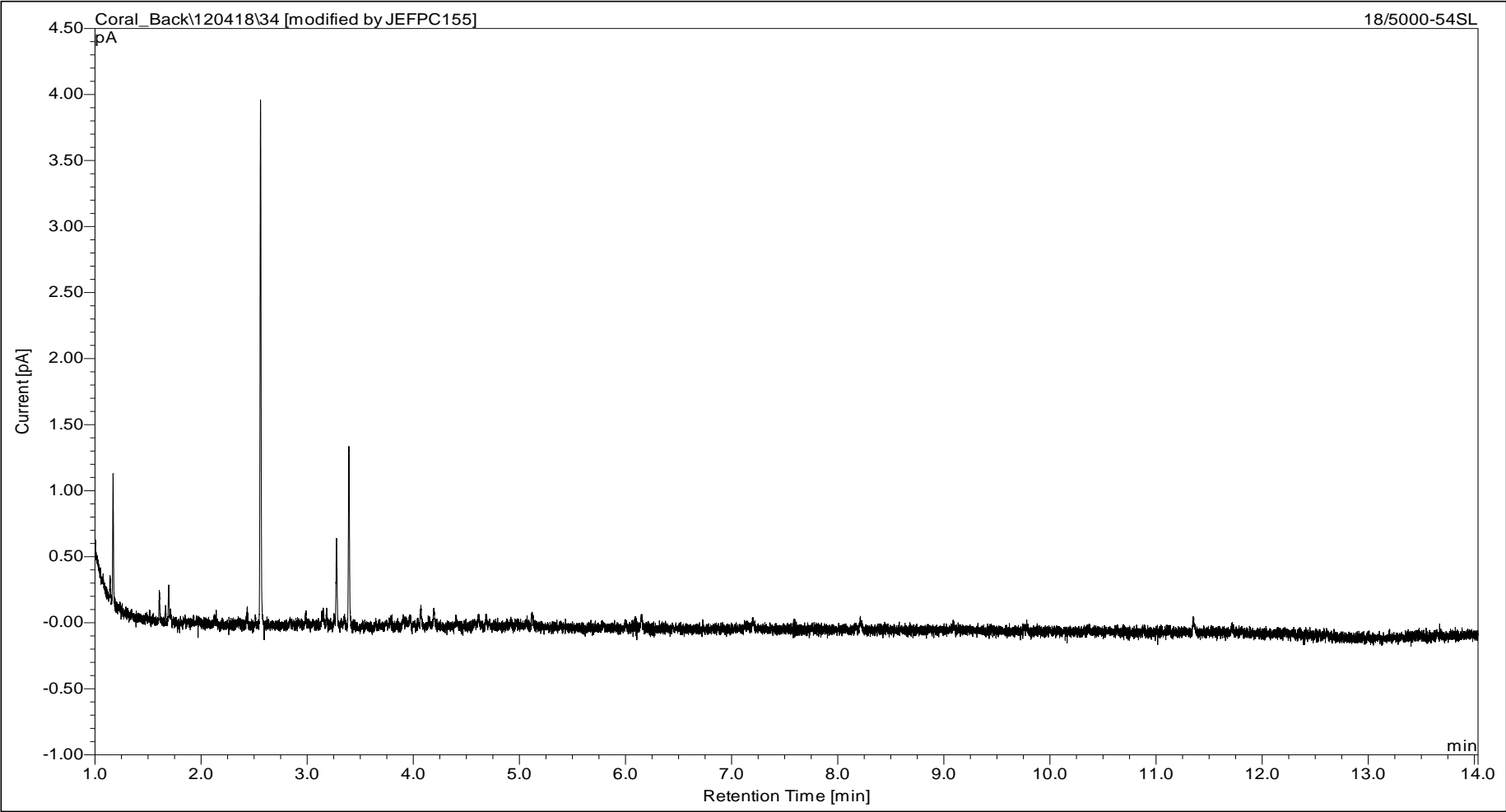
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 50
Sample Identity: 57629/TP#7-1
Depth:
Matrix: Solid



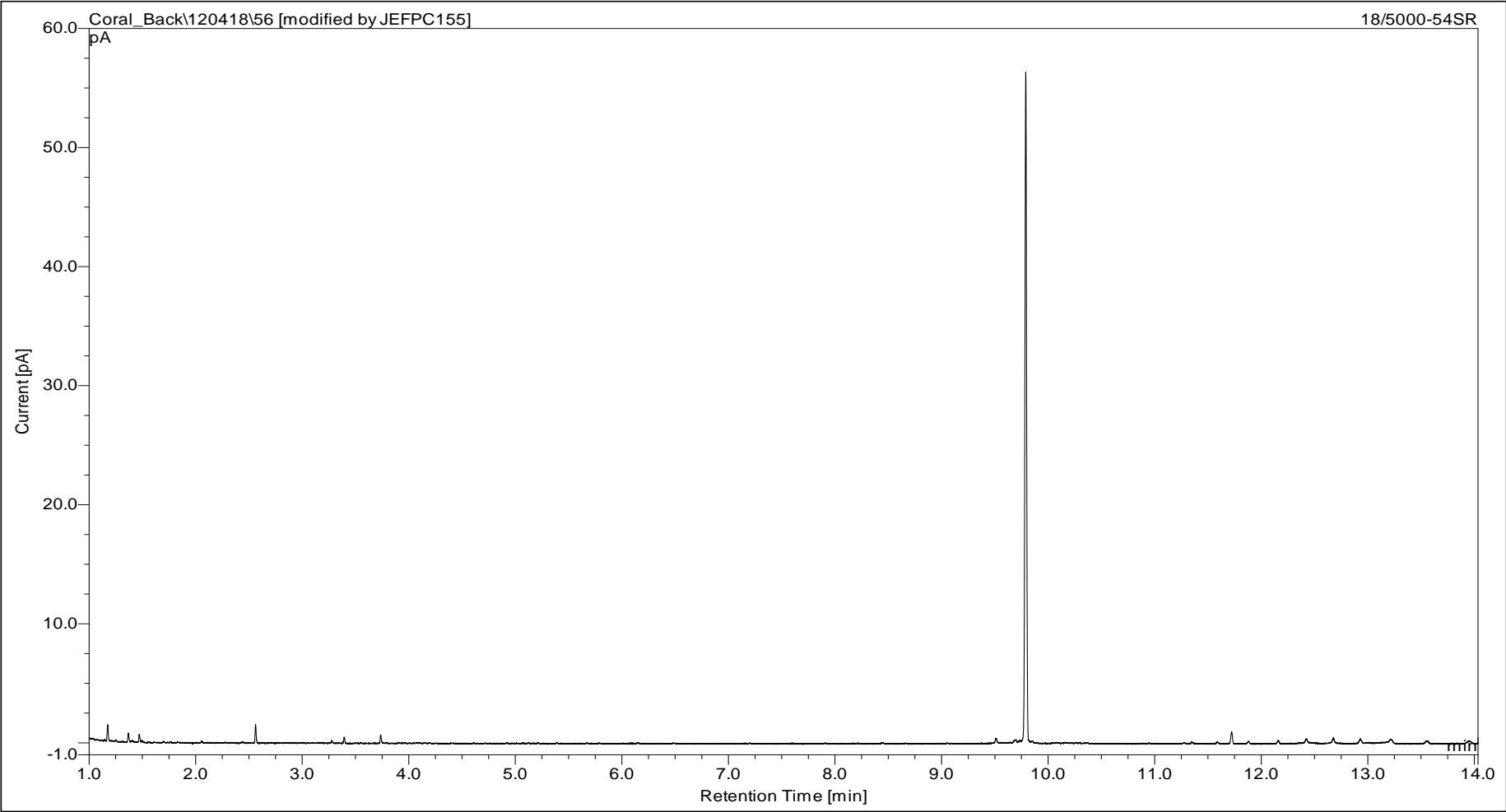
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 54
Sample Identity: 57629/TP#7-2
Depth:
Matrix: Solid

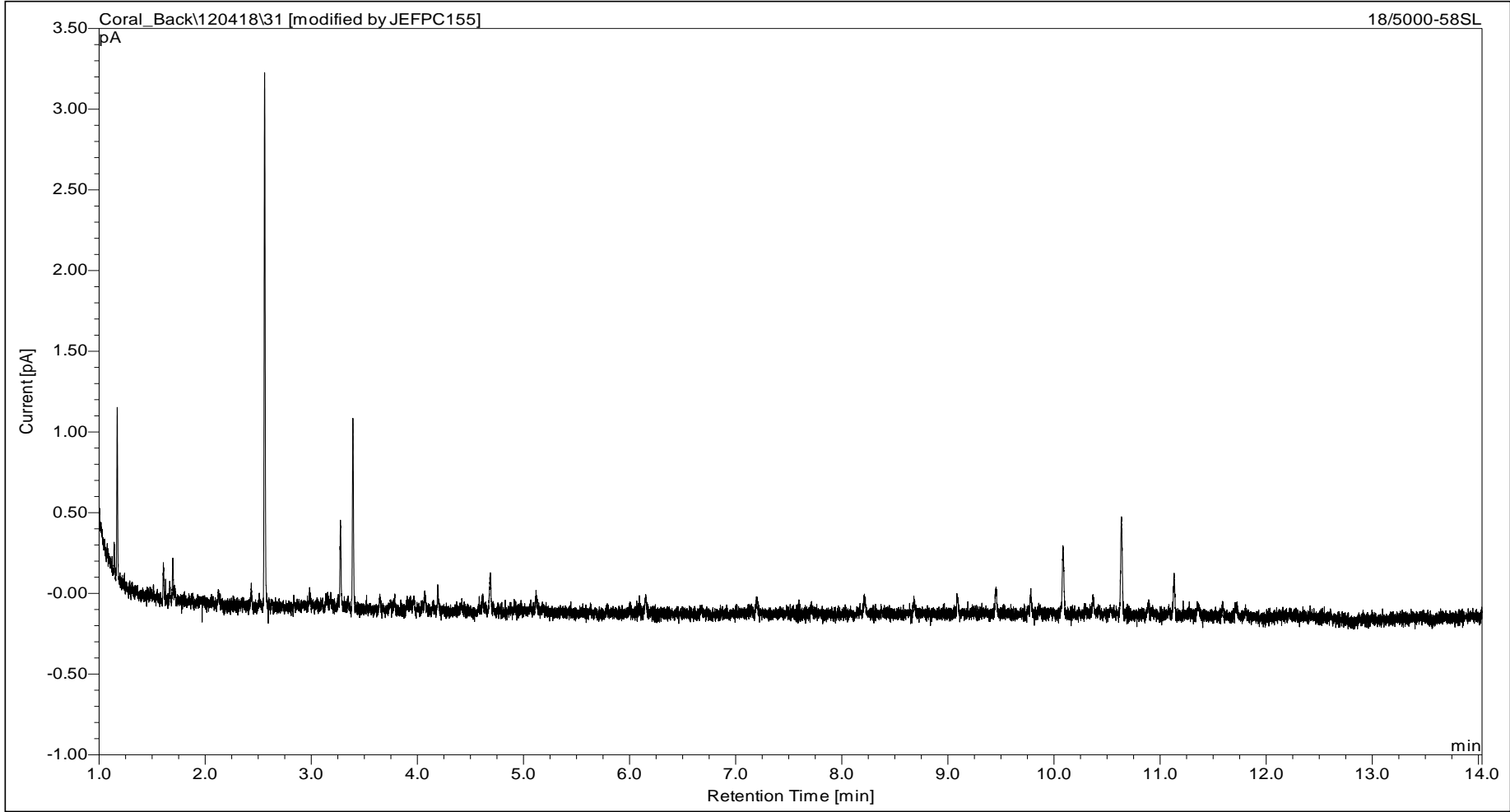


Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 54
Sample Identity: 57629/TP#7-2
Depth:
Matrix: Solid

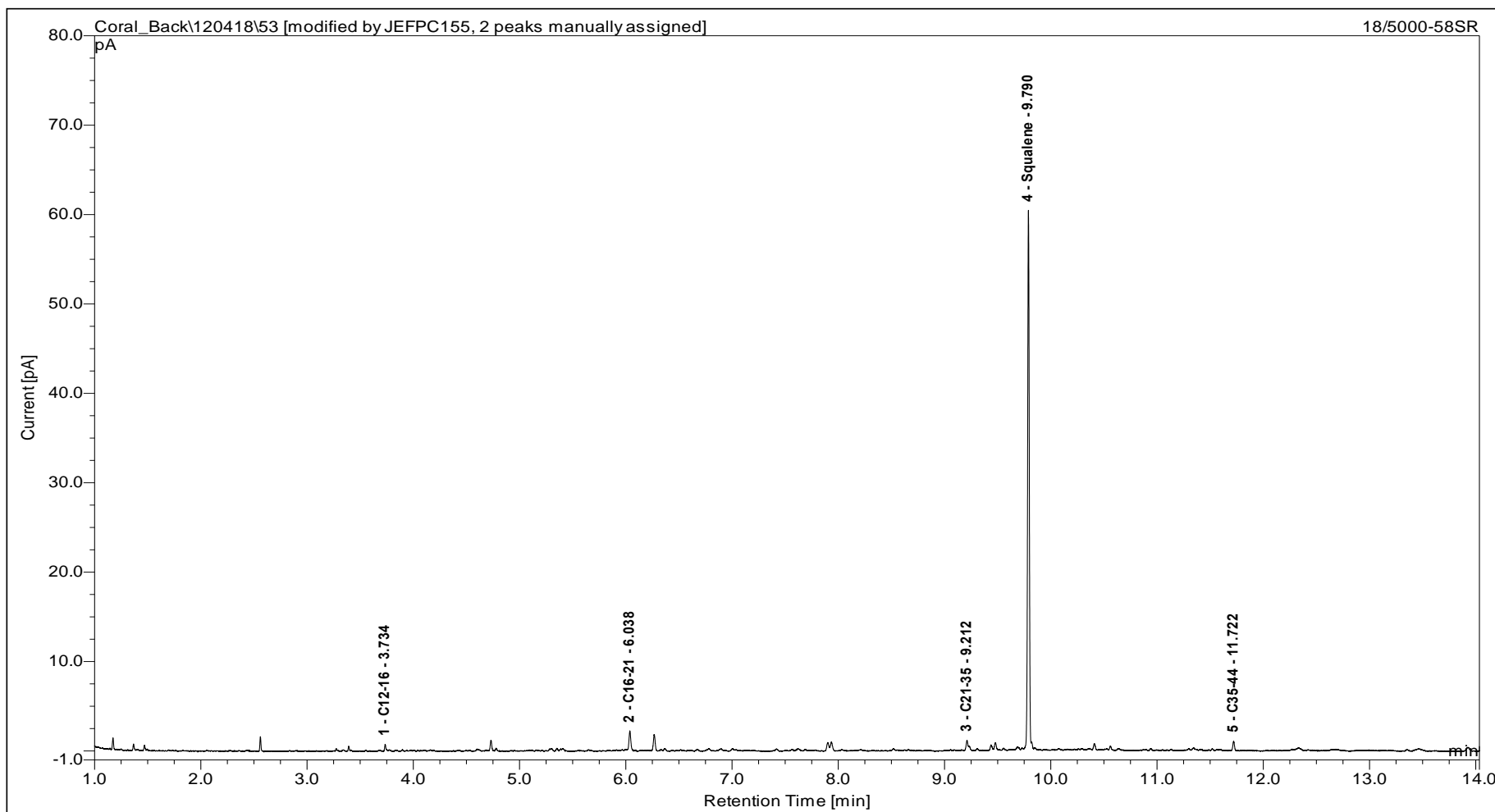


| | | | |
|--------------|---------------------|------------------|--------------|
| Client Name: | Kiwa CMT Testing | JE Job No.: | 18/5000 |
| Reference: | 57629 (13275) | JE Sample No.: | 58 |
| Location: | Eastwood Landfill | Sample Identity: | 57629/TP#8-1 |
| Contact: | Brandon Fairweather | Depth: | |
| | | Matrix: | Solid |



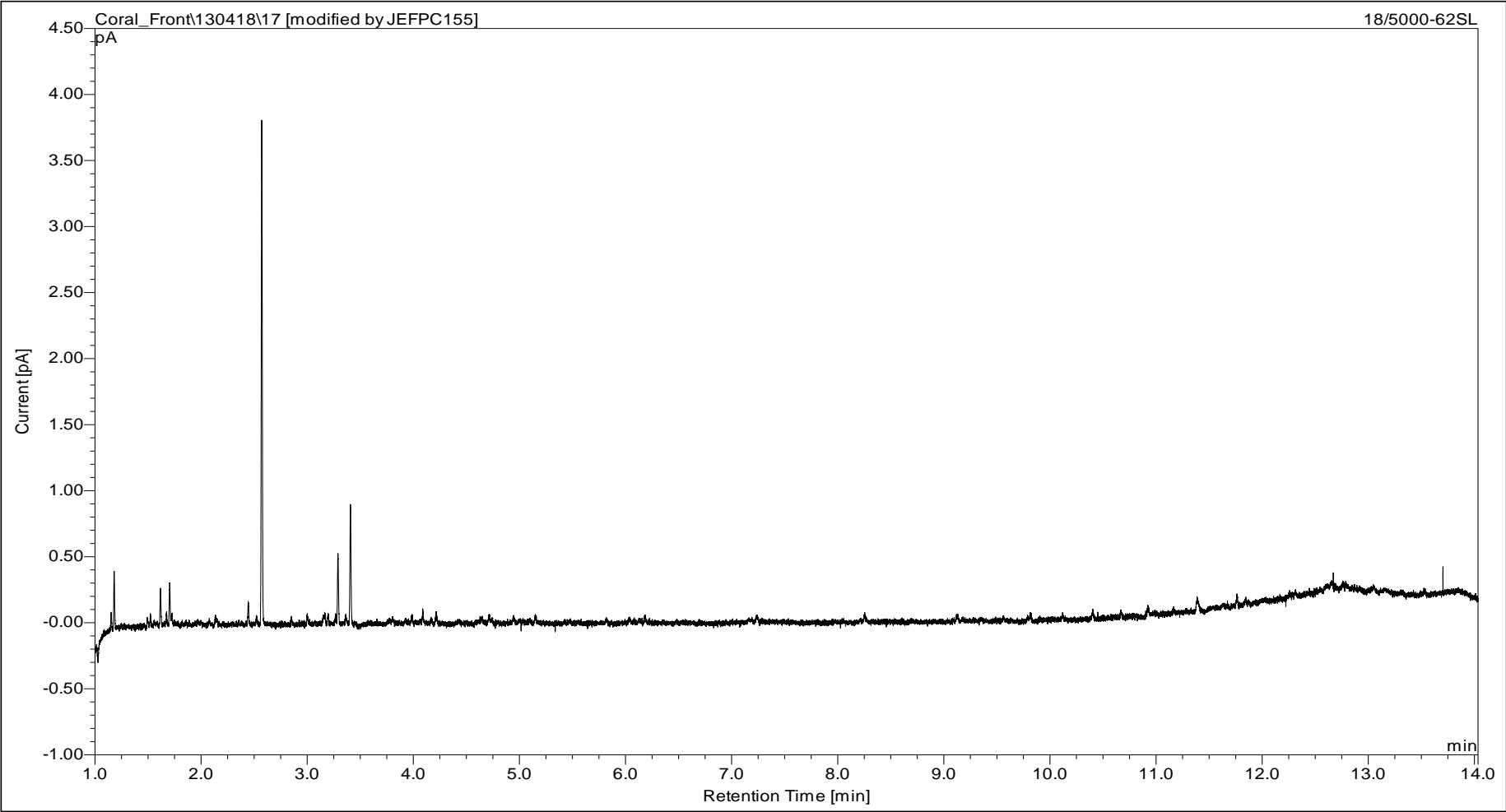
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 58
Sample Identity: 57629/TP#8-1
Depth:
Matrix: Solid



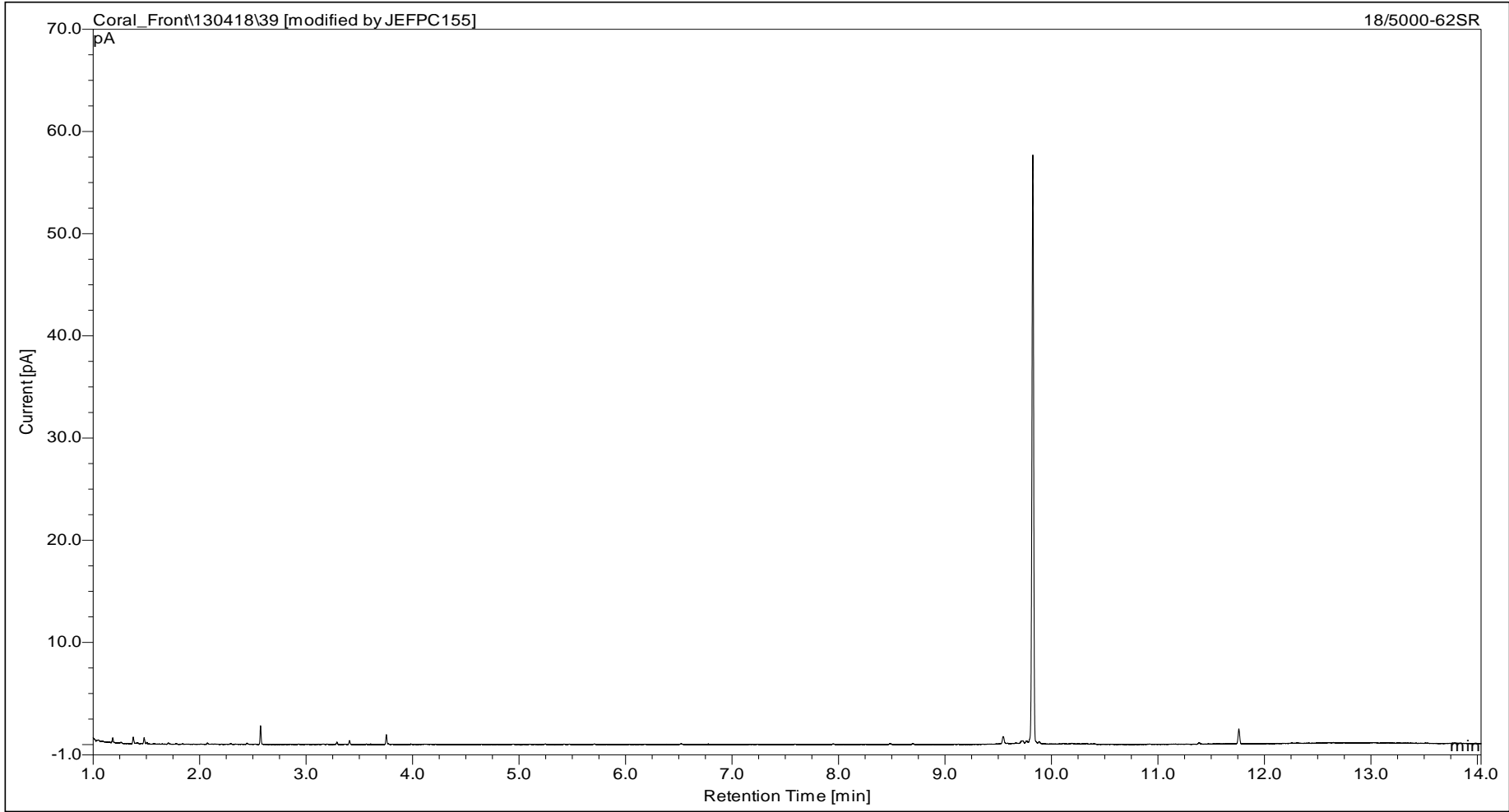
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 62
Sample Identity: 57629/TP#8-2
Depth:
Matrix: Solid



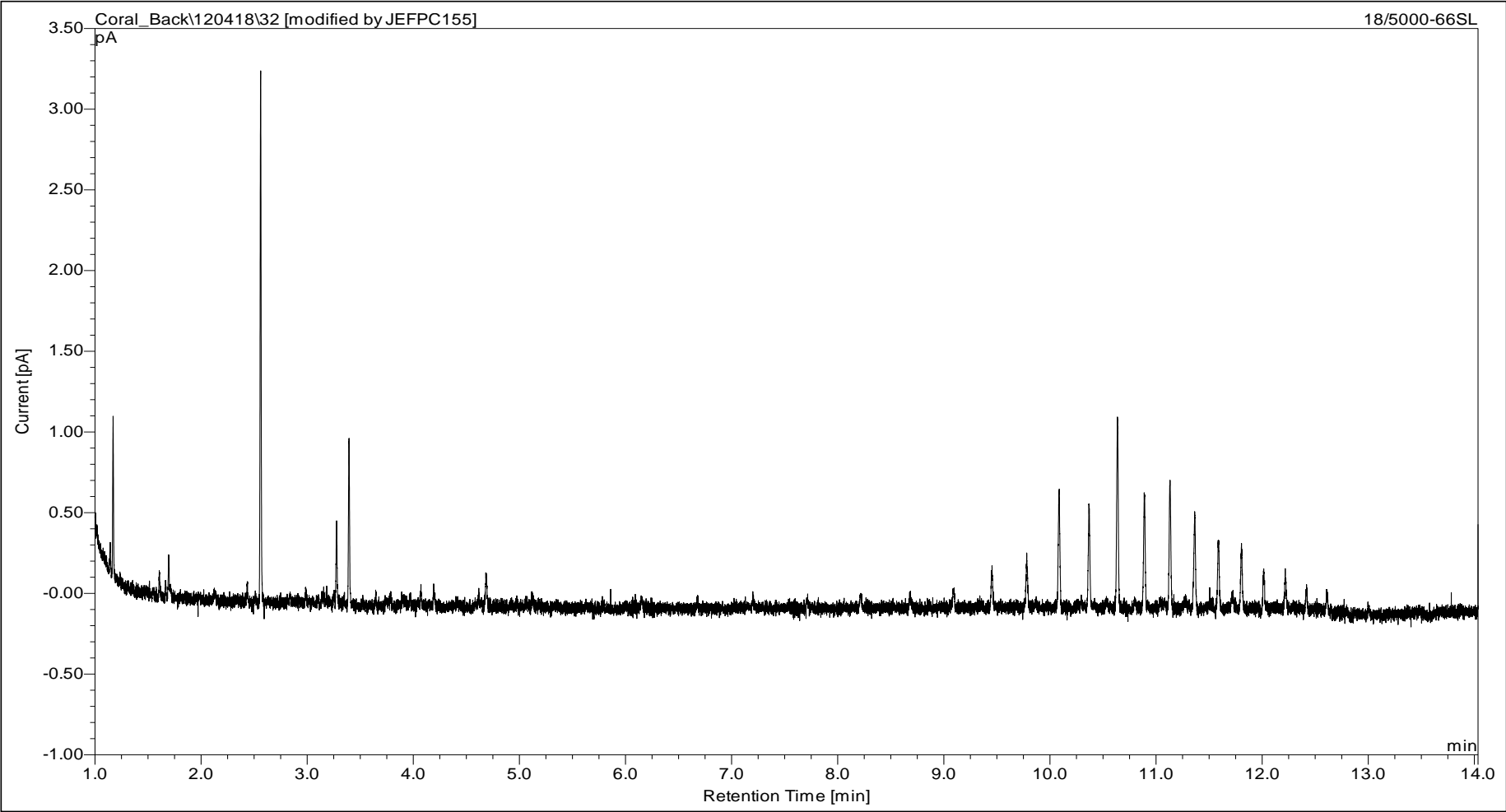
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 62
Sample Identity: 57629/TP#8-2
Depth:
Matrix: Solid



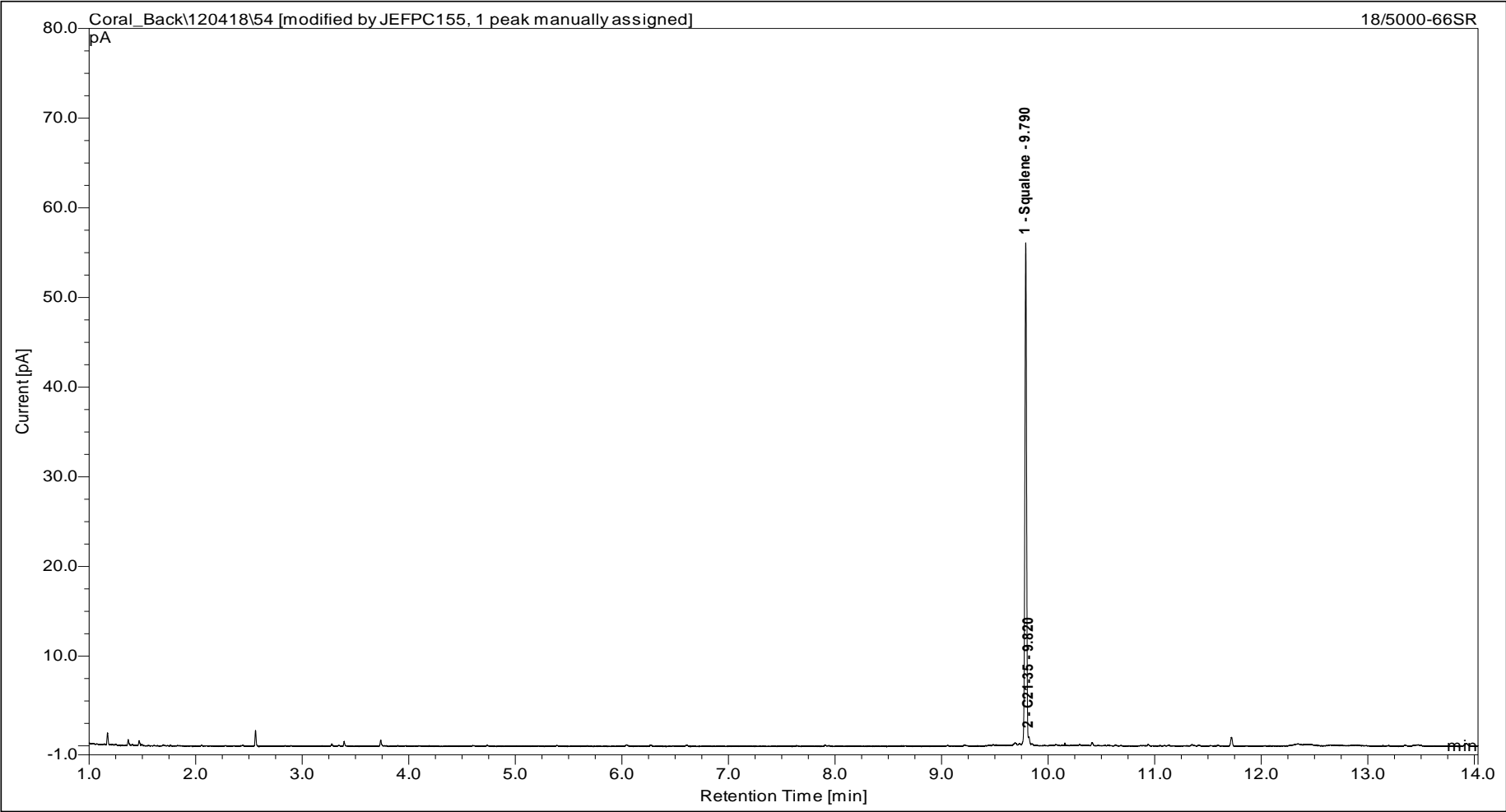
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 66
Sample Identity: 57629/TP#9-1
Depth:
Matrix: Solid



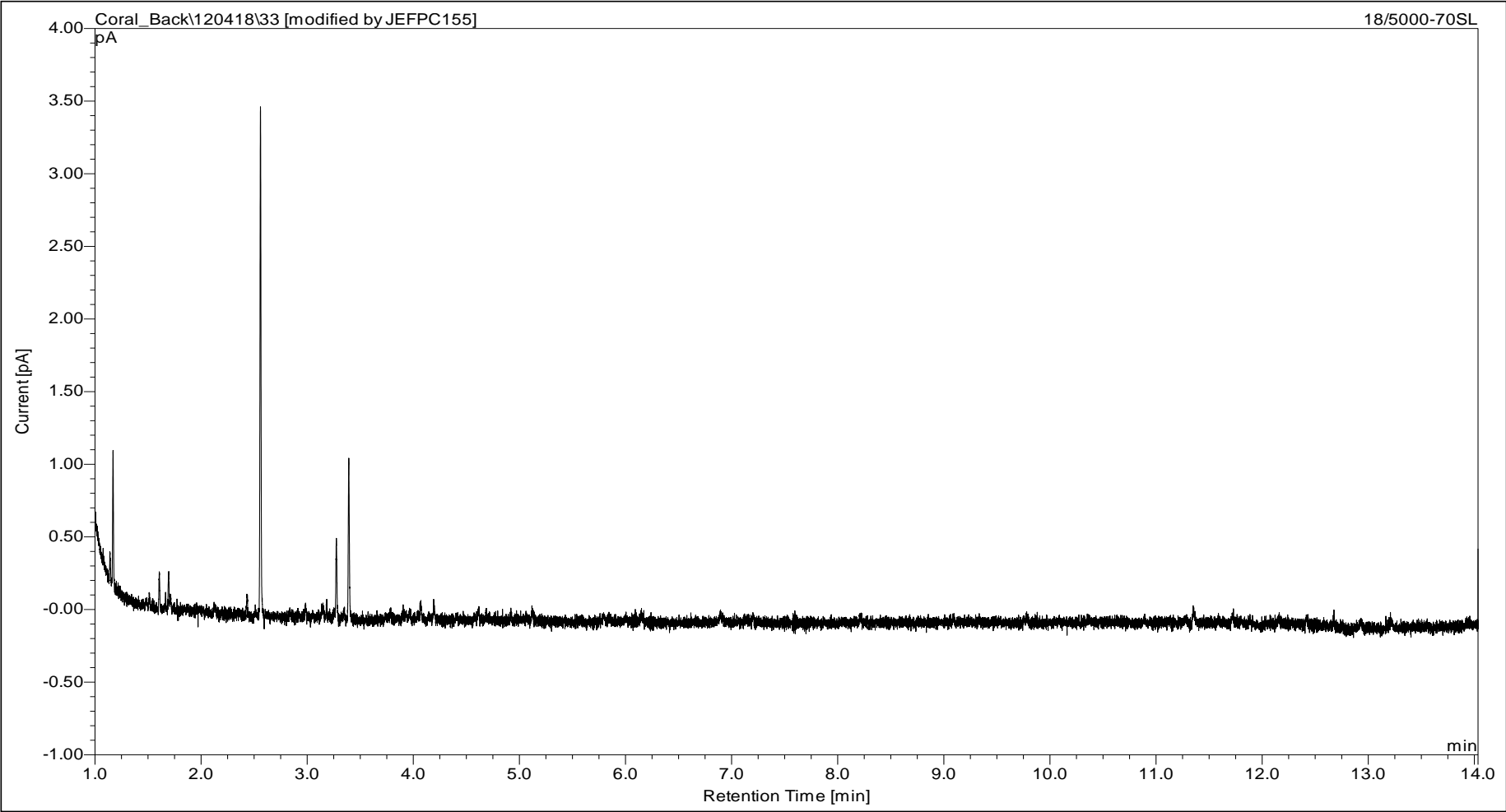
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 66
Sample Identity: 57629/TP#9-1
Depth:
Matrix: Solid



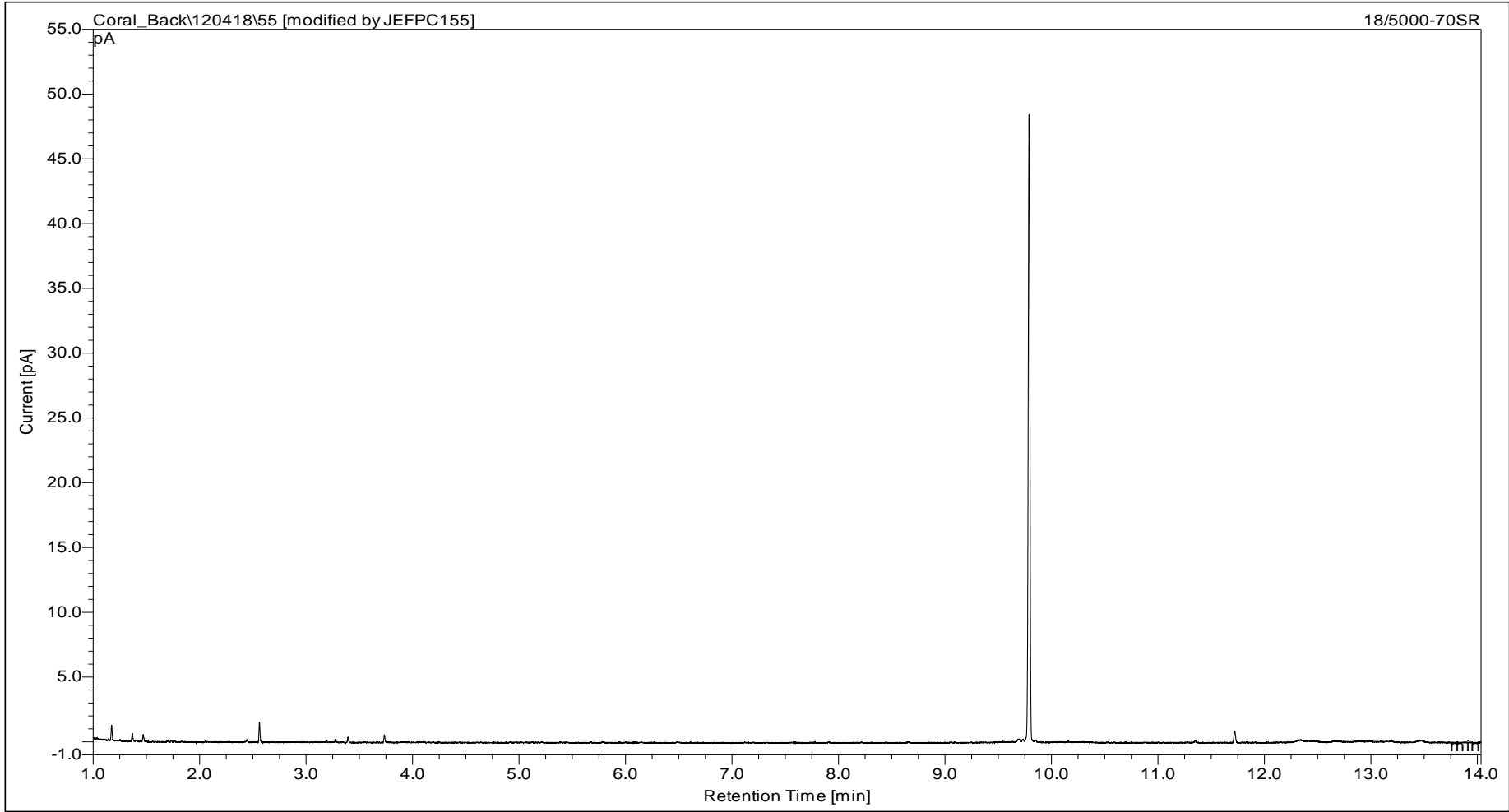
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 70
Sample Identity: 57629/TP#9-2
Depth:
Matrix: Solid



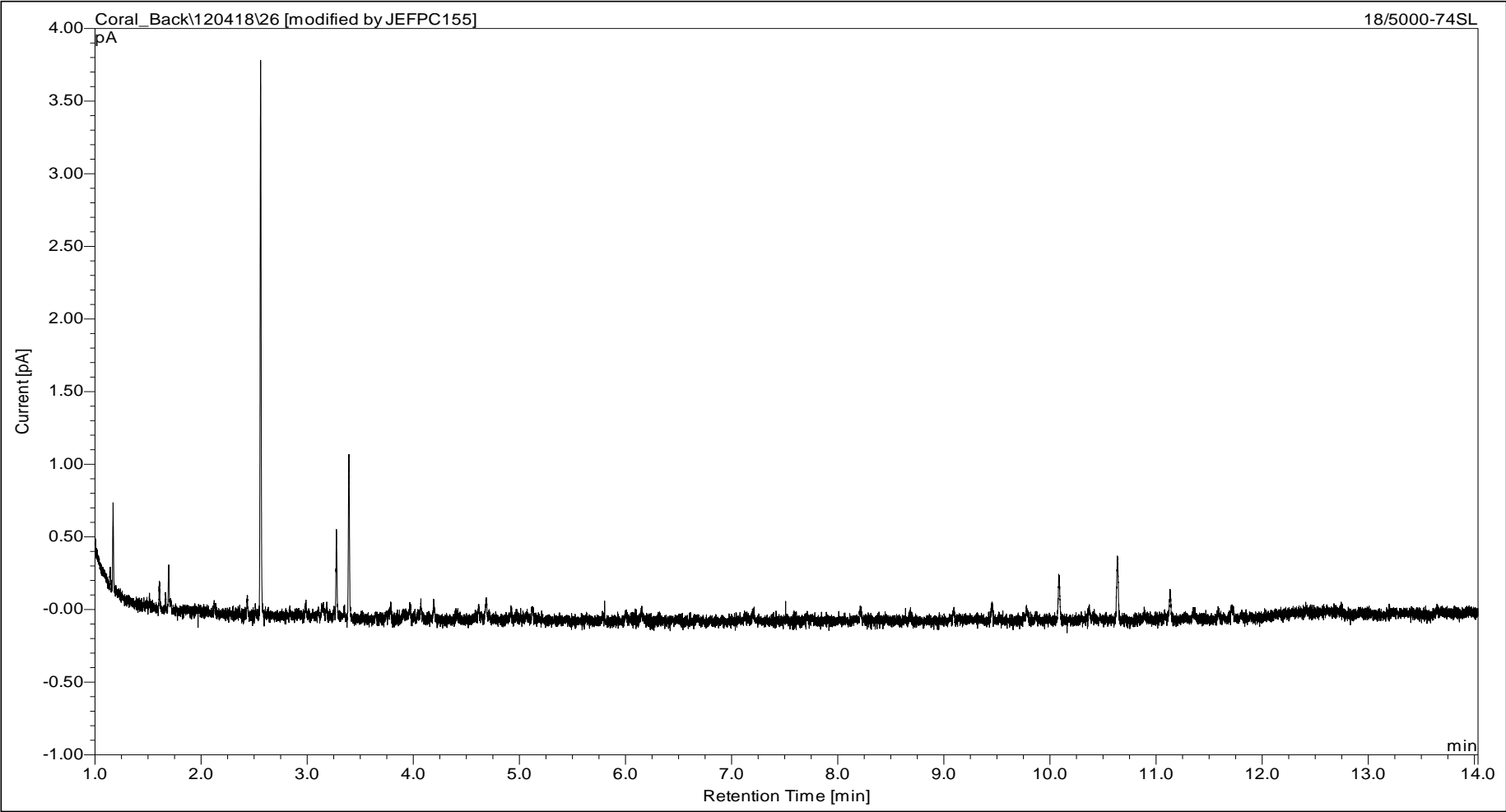
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 70
Sample Identity: 57629/TP#9-2
Depth:
Matrix: Solid



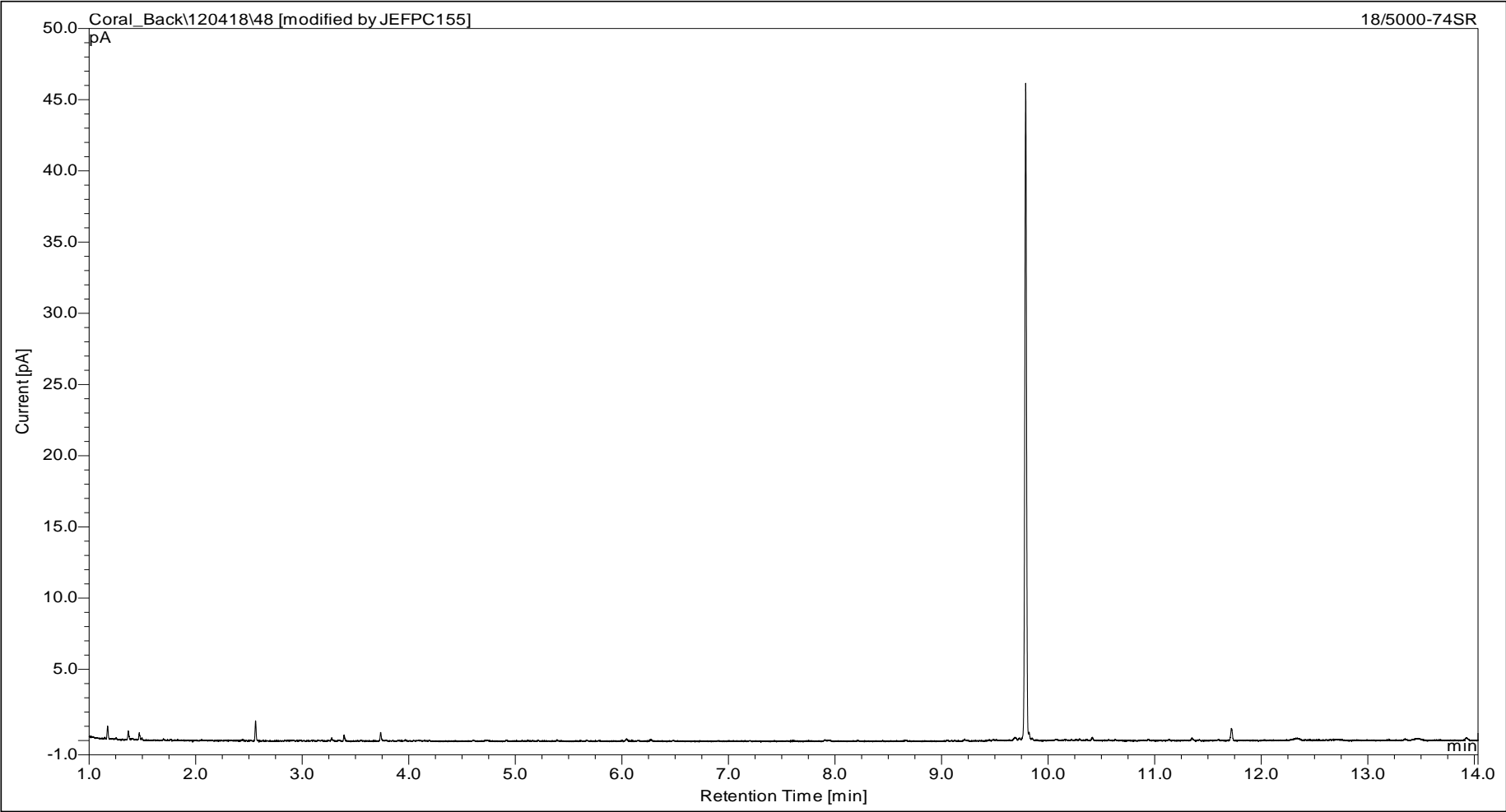
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 74
Sample Identity: 57629/TP#10-1
Depth:
Matrix: Solid



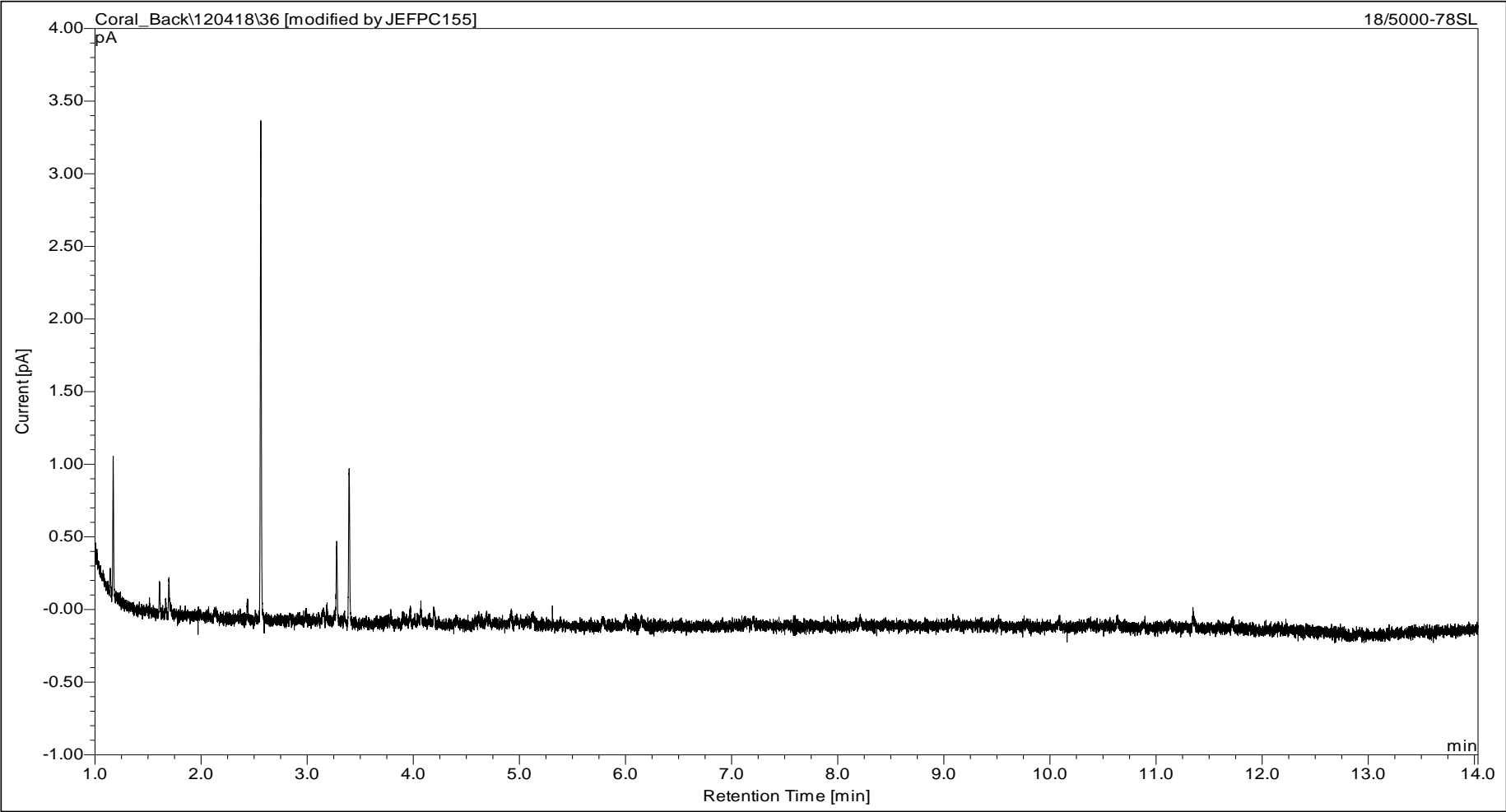
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 74
Sample Identity: 57629/TP#10-1
Depth:
Matrix: Solid



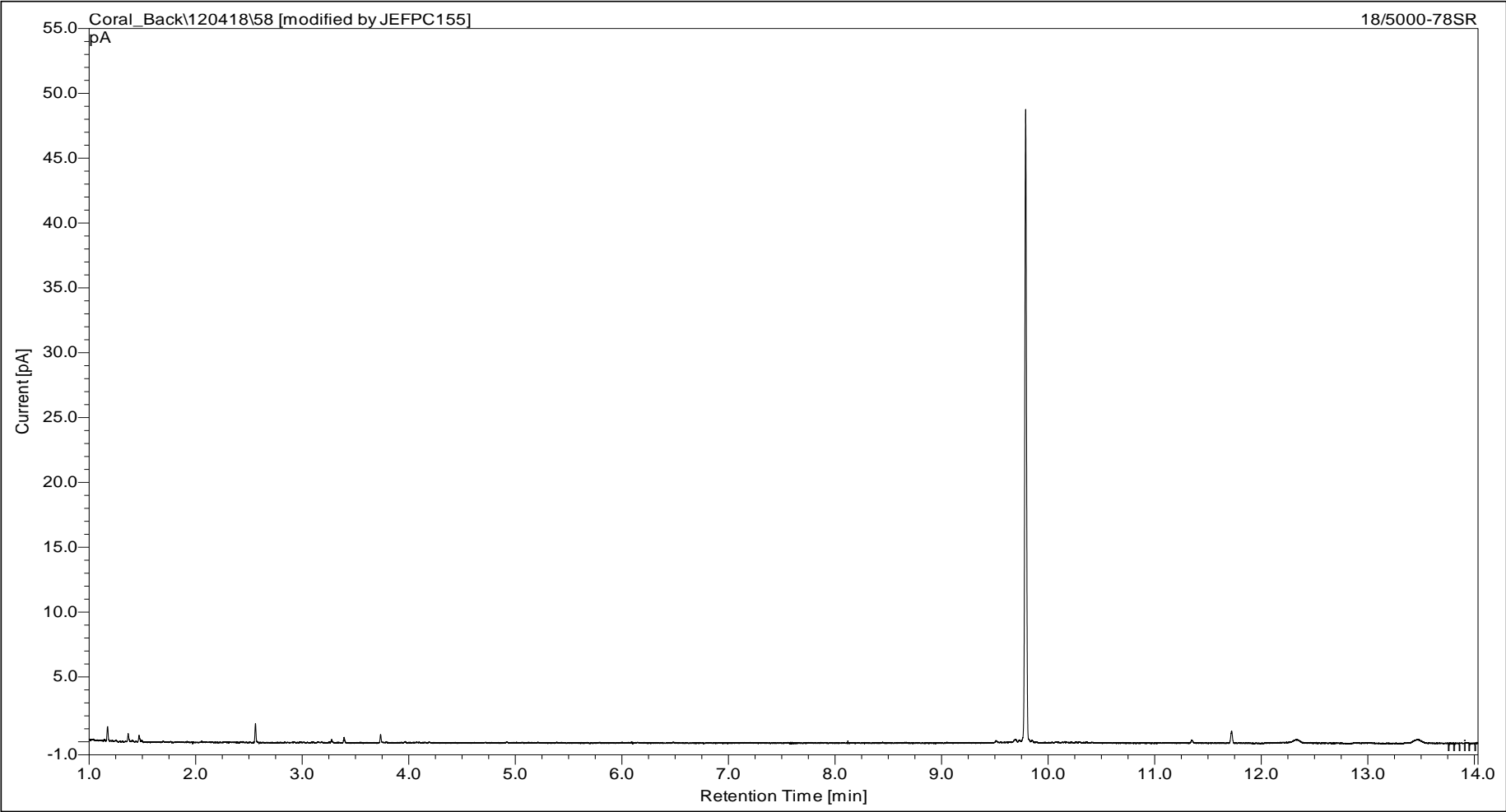
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 78
Sample Identity: 57629/TP#10-2
Depth:
Matrix: Solid



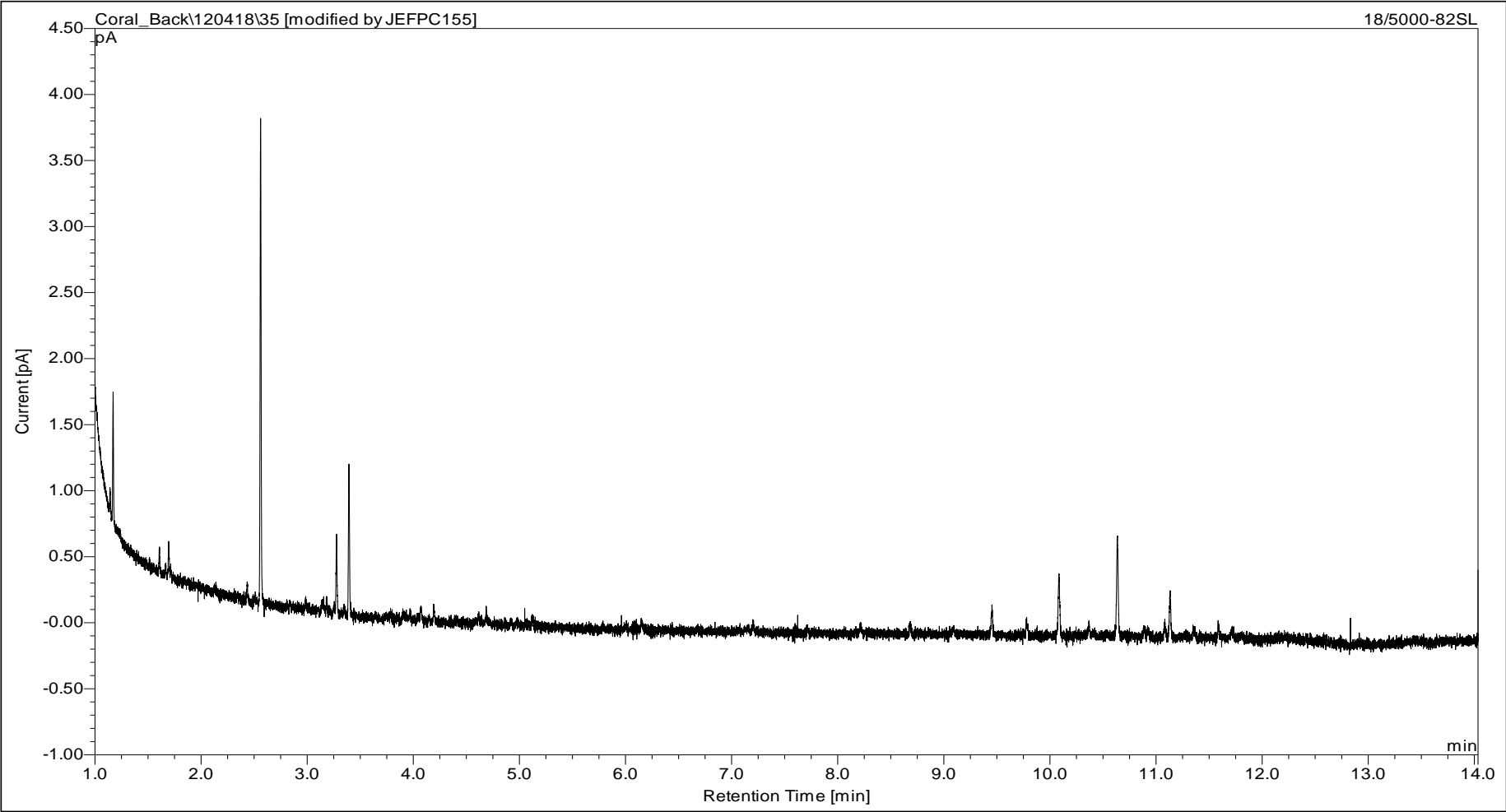
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 78
Sample Identity: 57629/TP#10-2
Depth:
Matrix: Solid



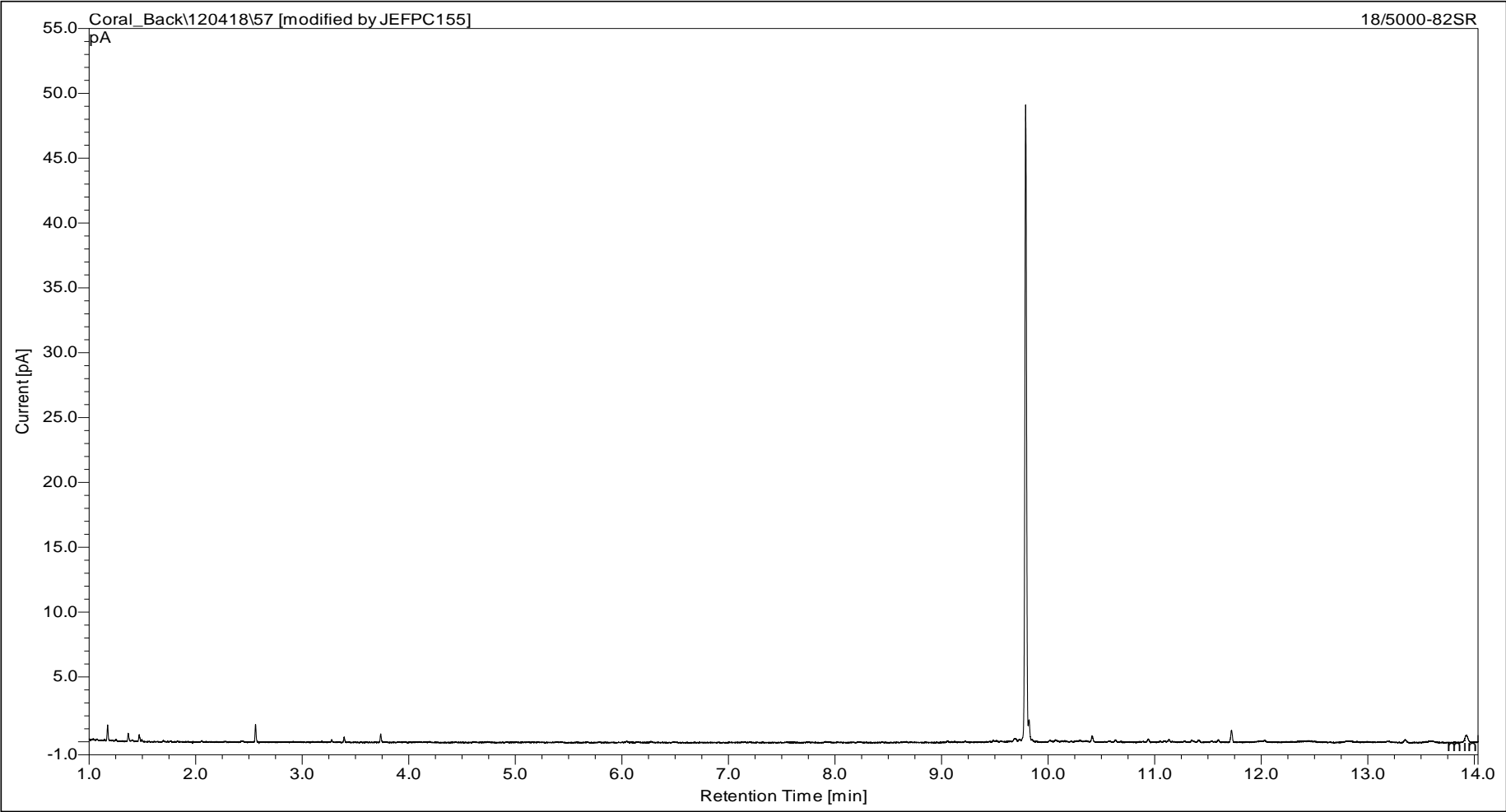
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 82
Sample Identity: 57629/TP#11-1
Depth:
Matrix: Solid



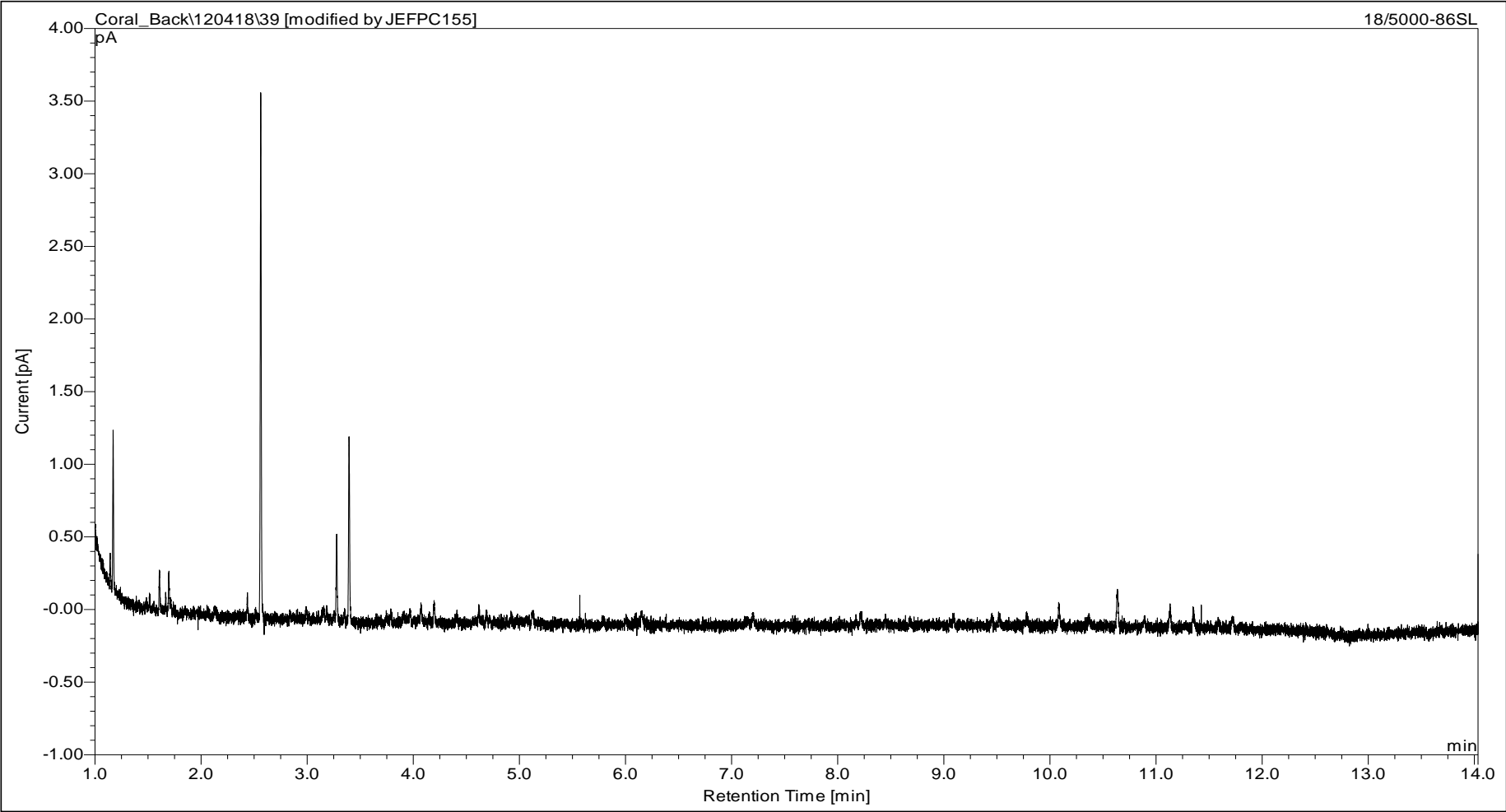
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 82
Sample Identity: 57629/TP#11-1
Depth:
Matrix: Solid



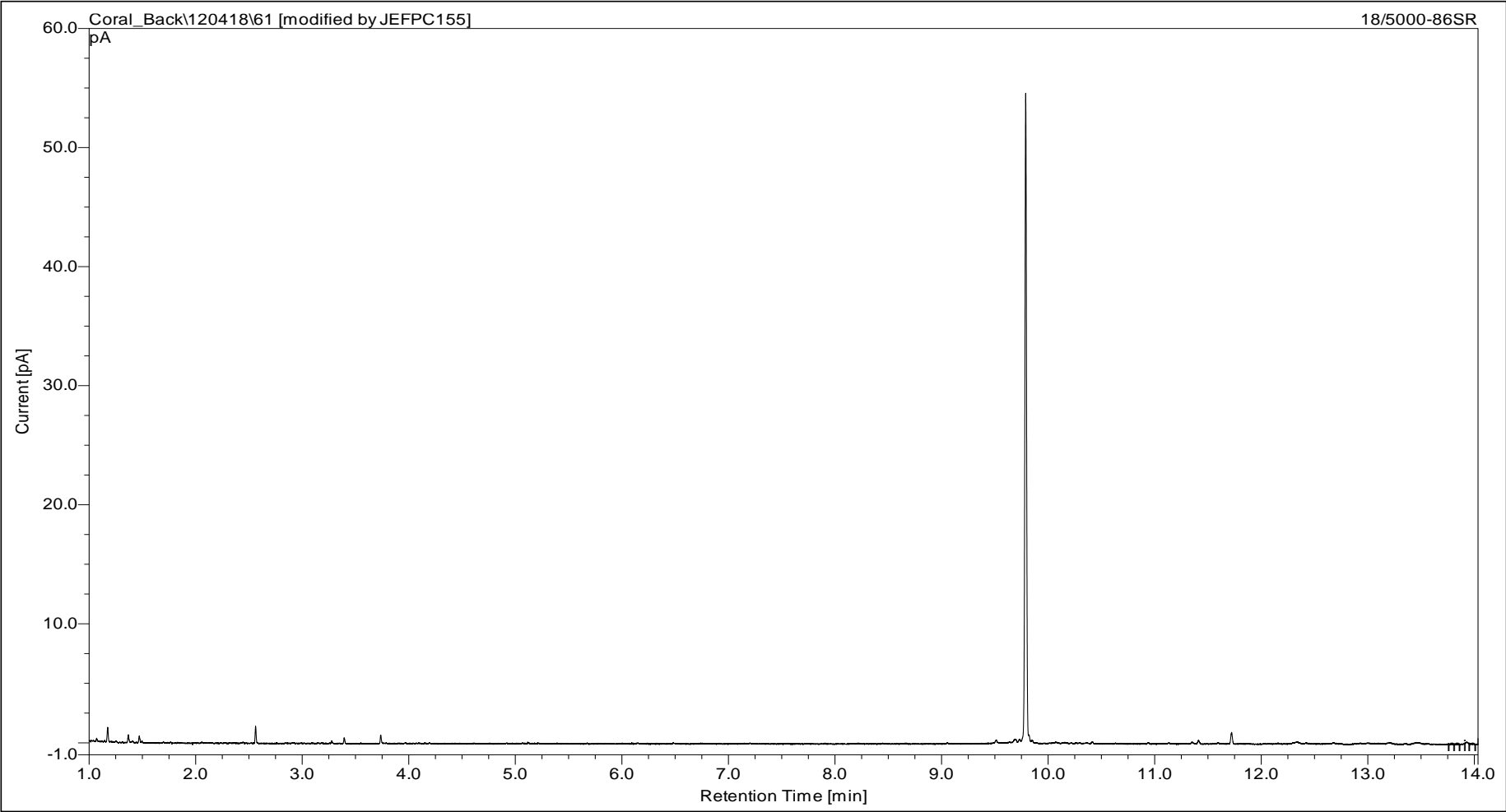
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 86
Sample Identity: 57629/TP#11-2
Depth:
Matrix: Solid



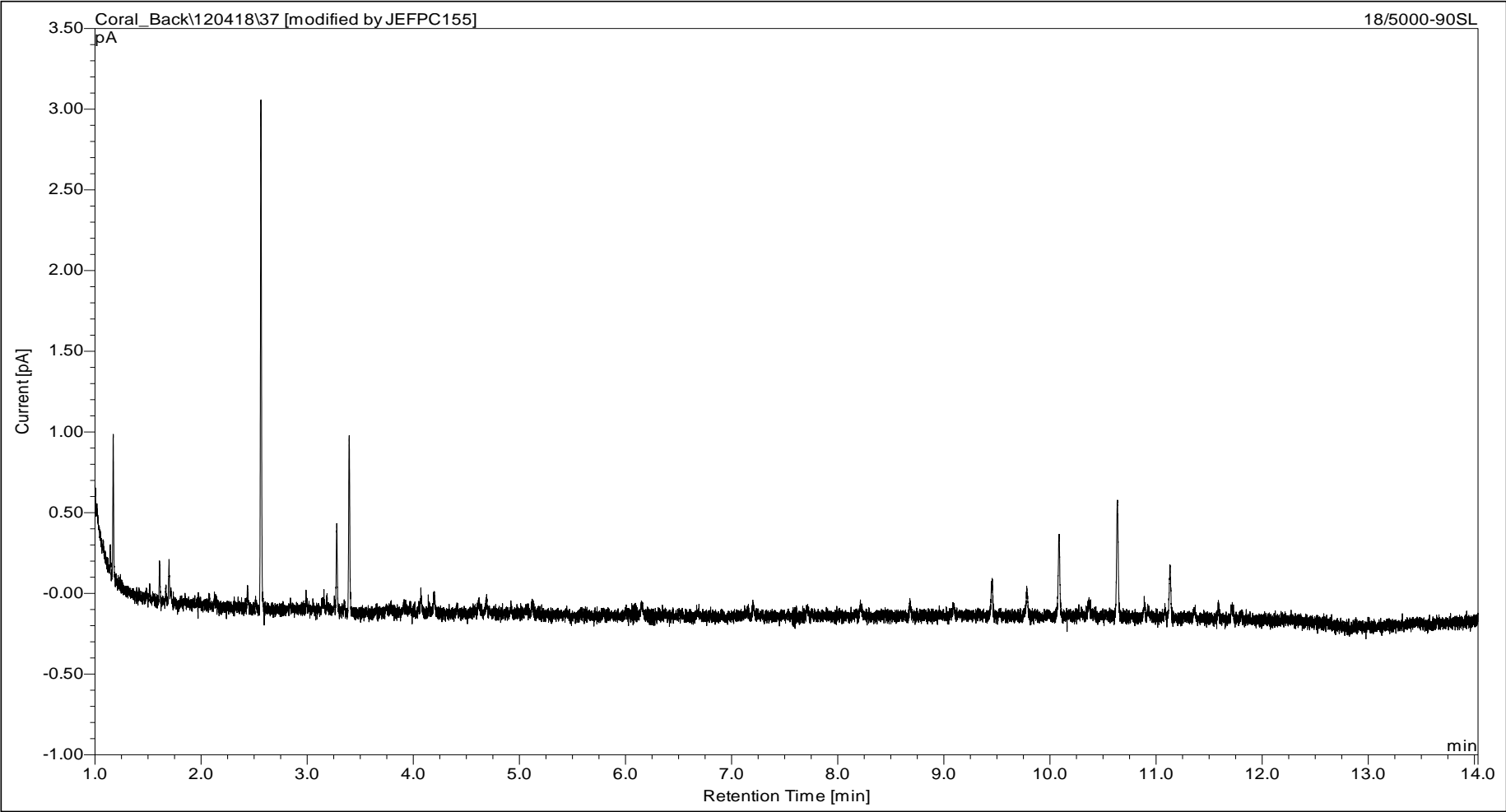
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 86
Sample Identity: 57629/TP#11-2
Depth:
Matrix: Solid



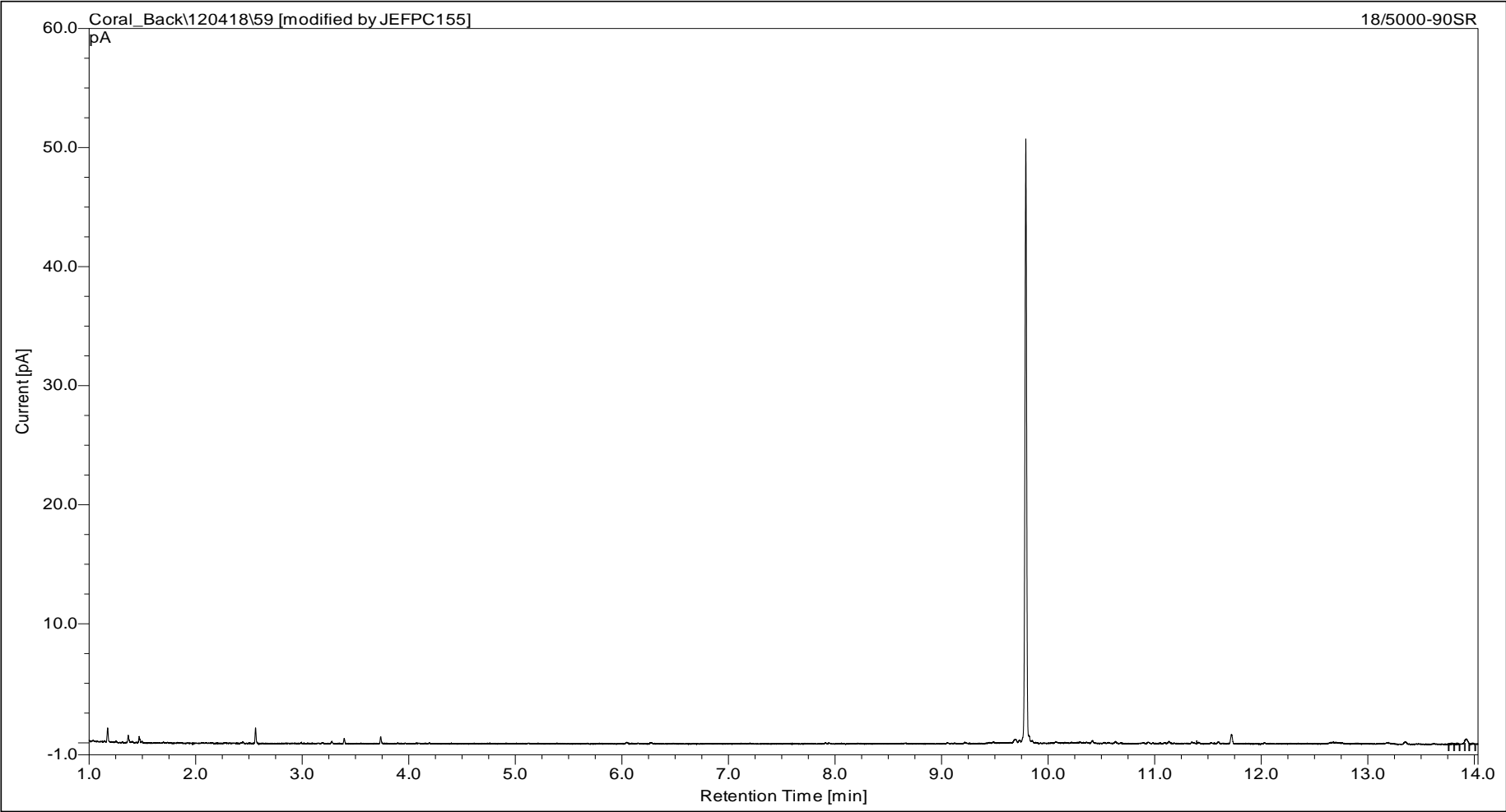
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 90
Sample Identity: 57629/TP#12-1
Depth:
Matrix: Solid



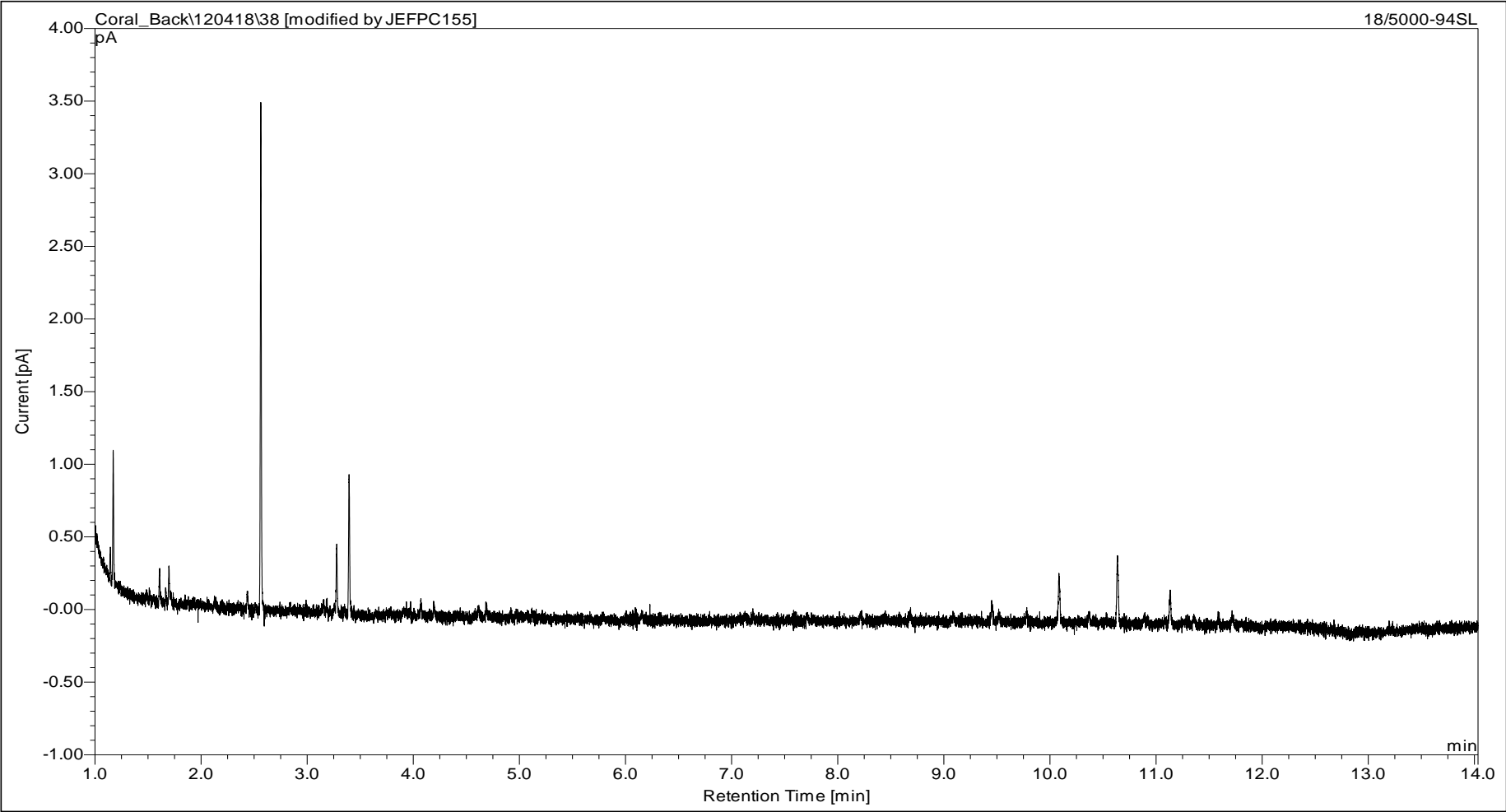
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 90
Sample Identity: 57629/TP#12-1
Depth:
Matrix: Solid



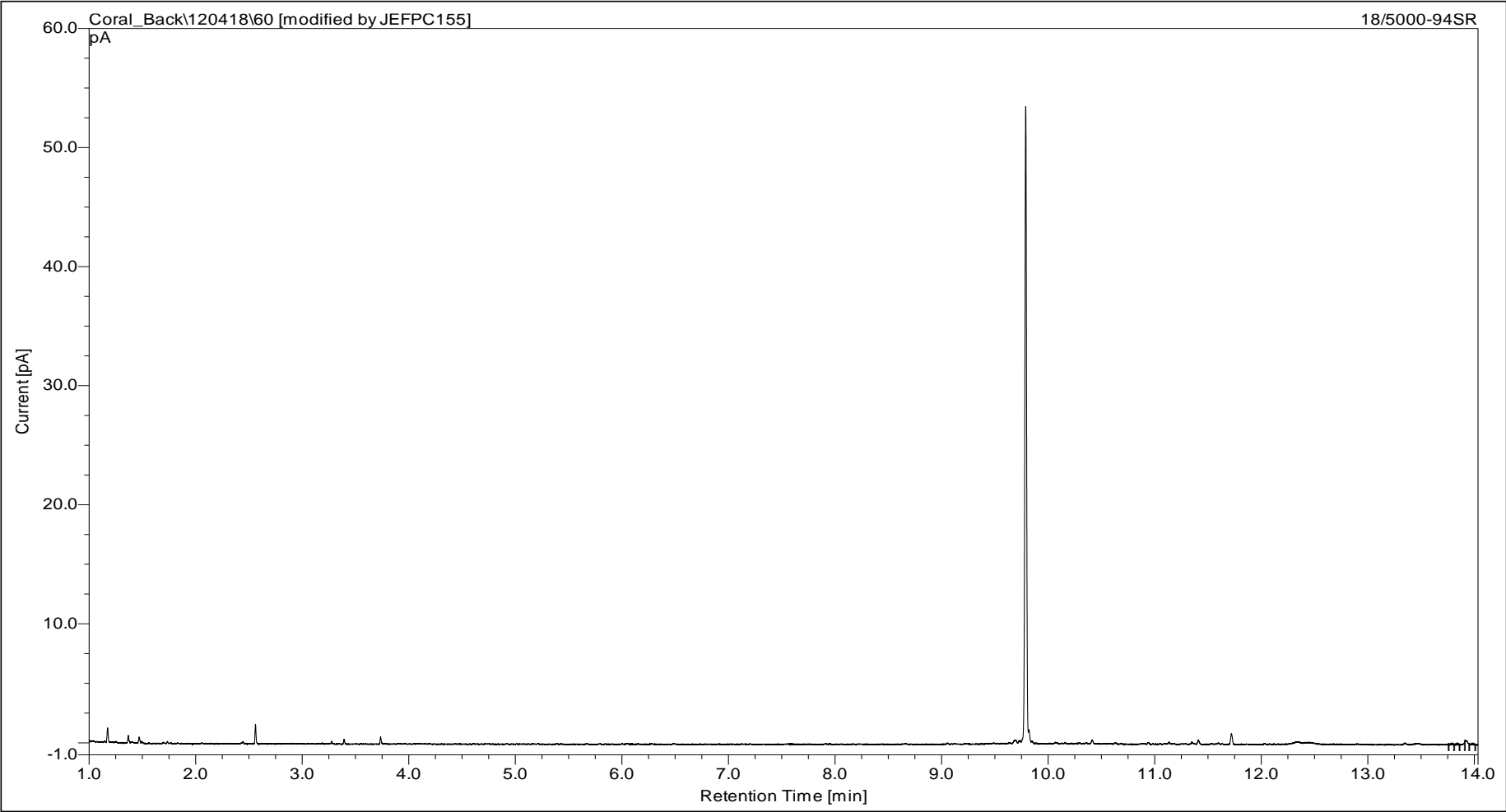
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 94
Sample Identity: 57629/TP#12-2
Depth:
Matrix: Solid



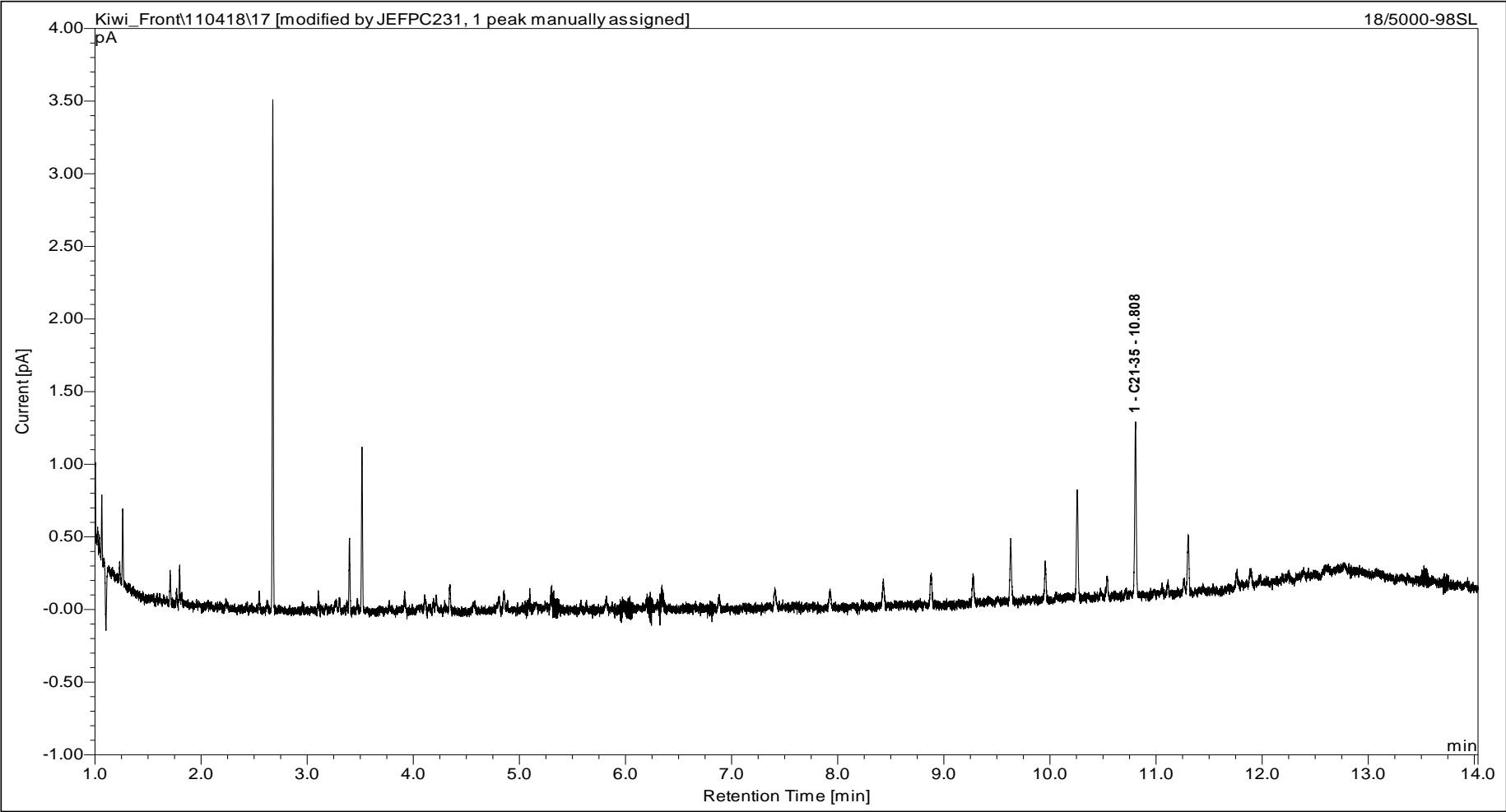
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 94
Sample Identity: 57629/TP#12-2
Depth:
Matrix: Solid



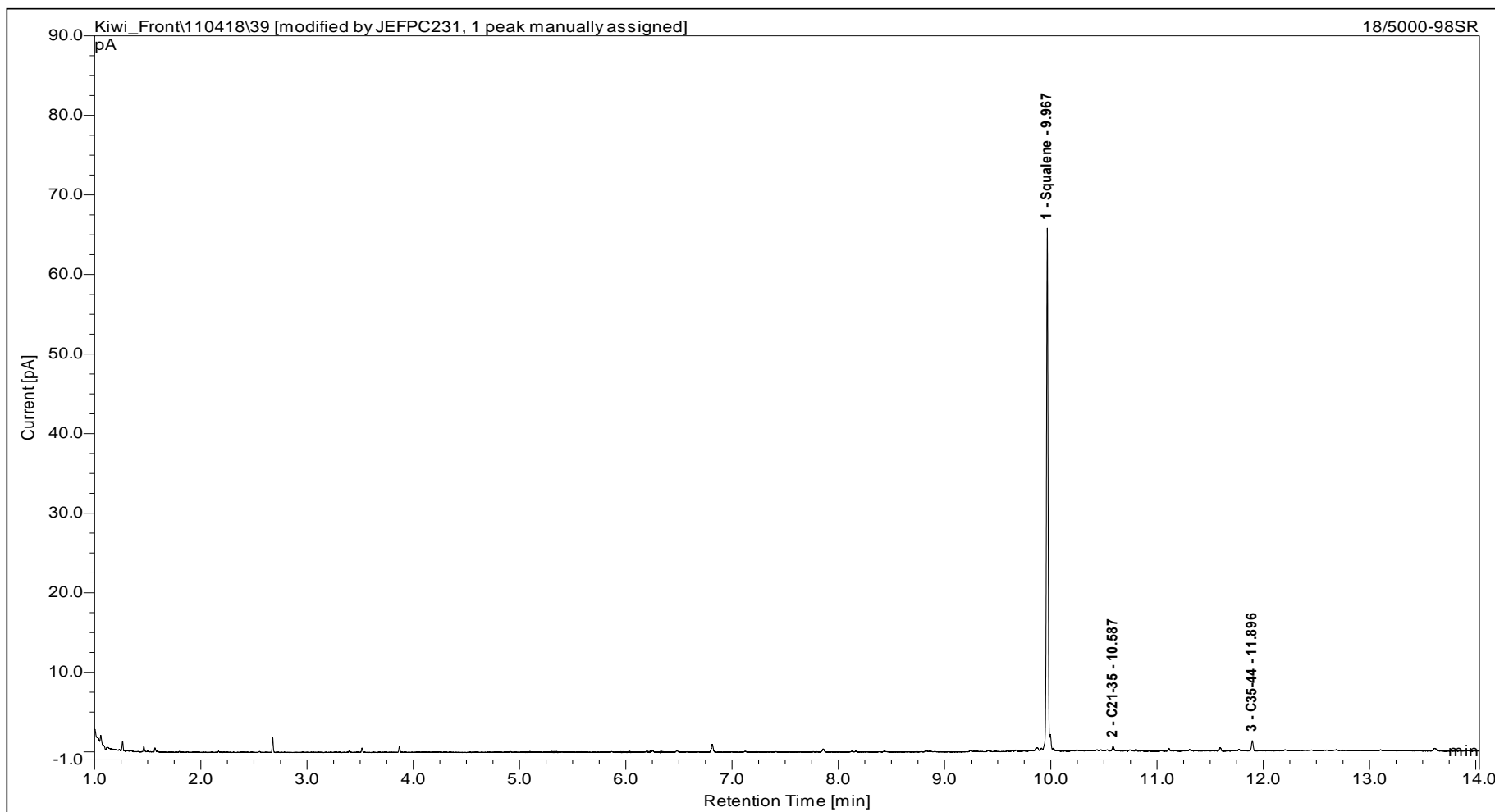
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 98
Sample Identity: 57629/TP#13-1
Depth:
Matrix: Solid



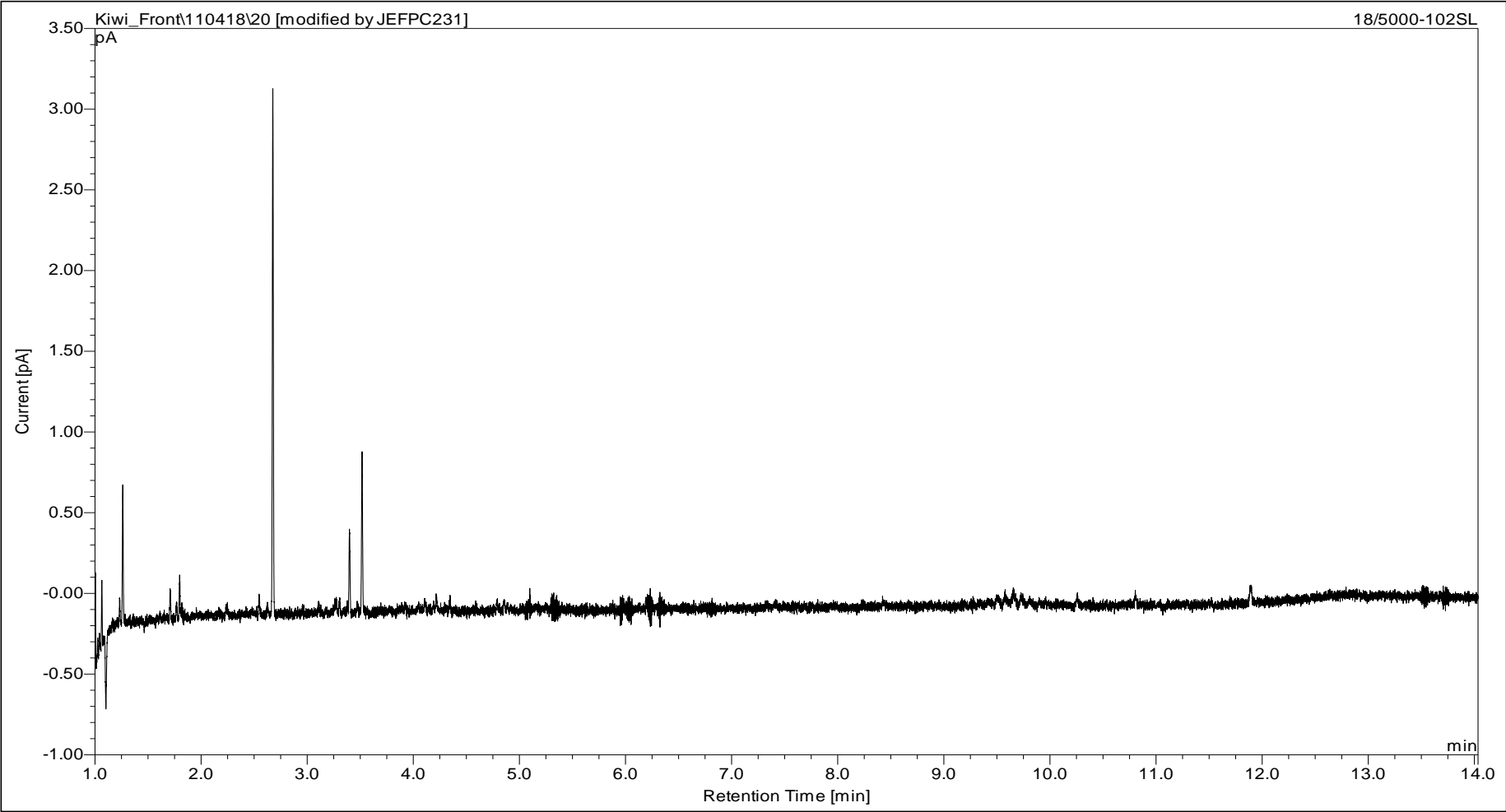
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 98
Sample Identity: 57629/TP#13-1
Depth:
Matrix: Solid



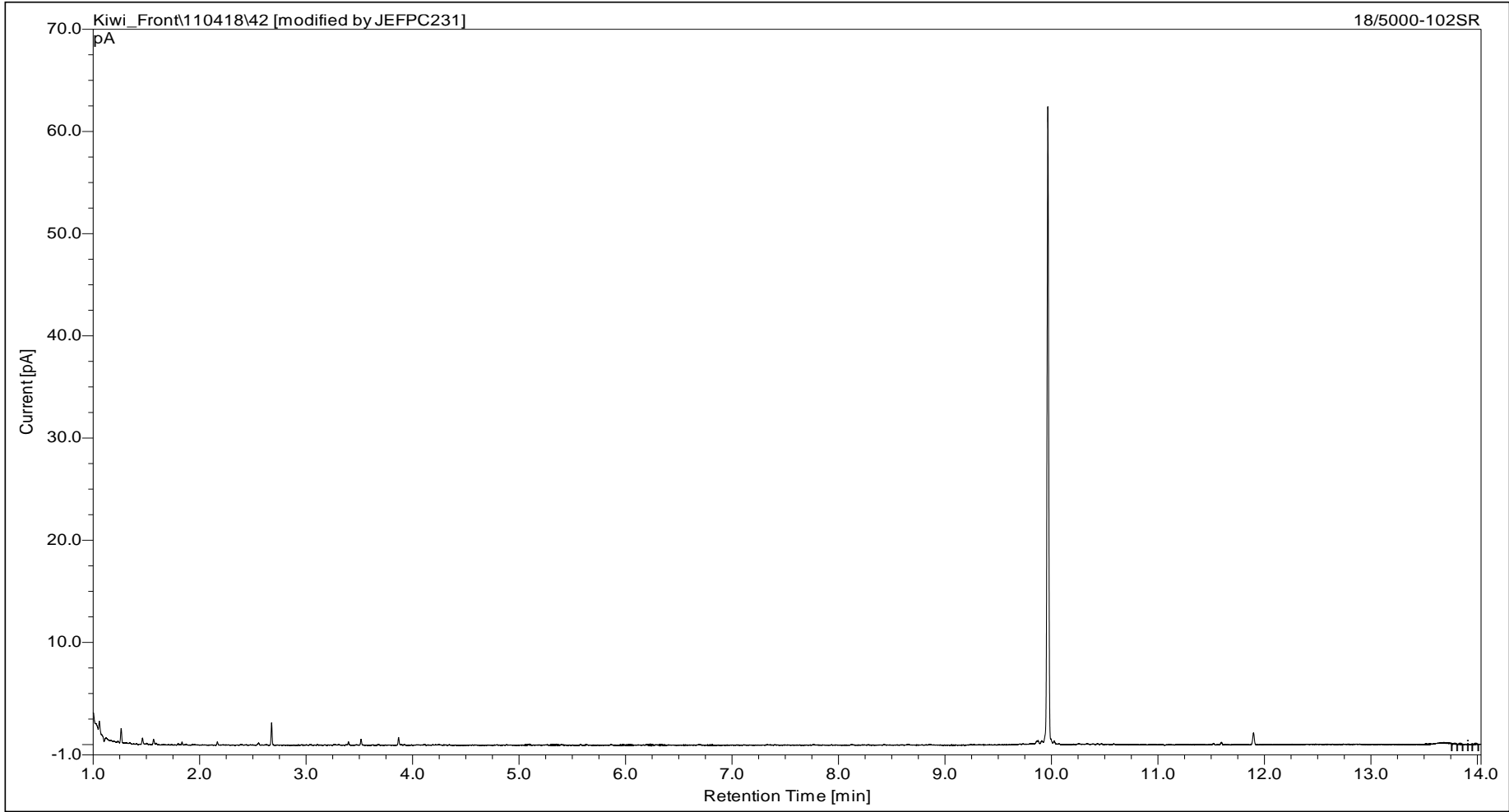
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 102
Sample Identity: 57629/TP#13-2
Depth:
Matrix: Solid



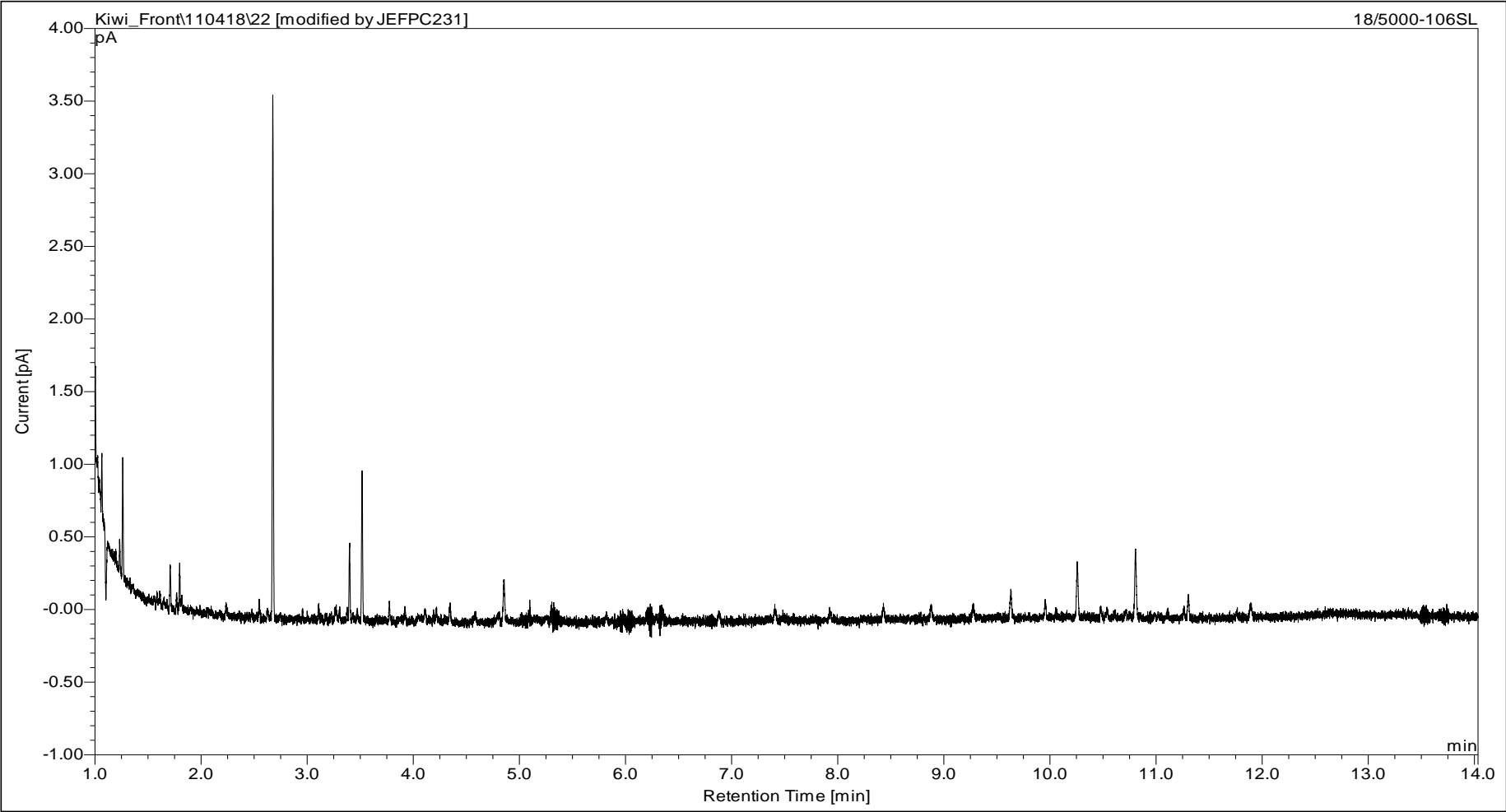
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 102
Sample Identity: 57629/TP#13-2
Depth:
Matrix: Solid



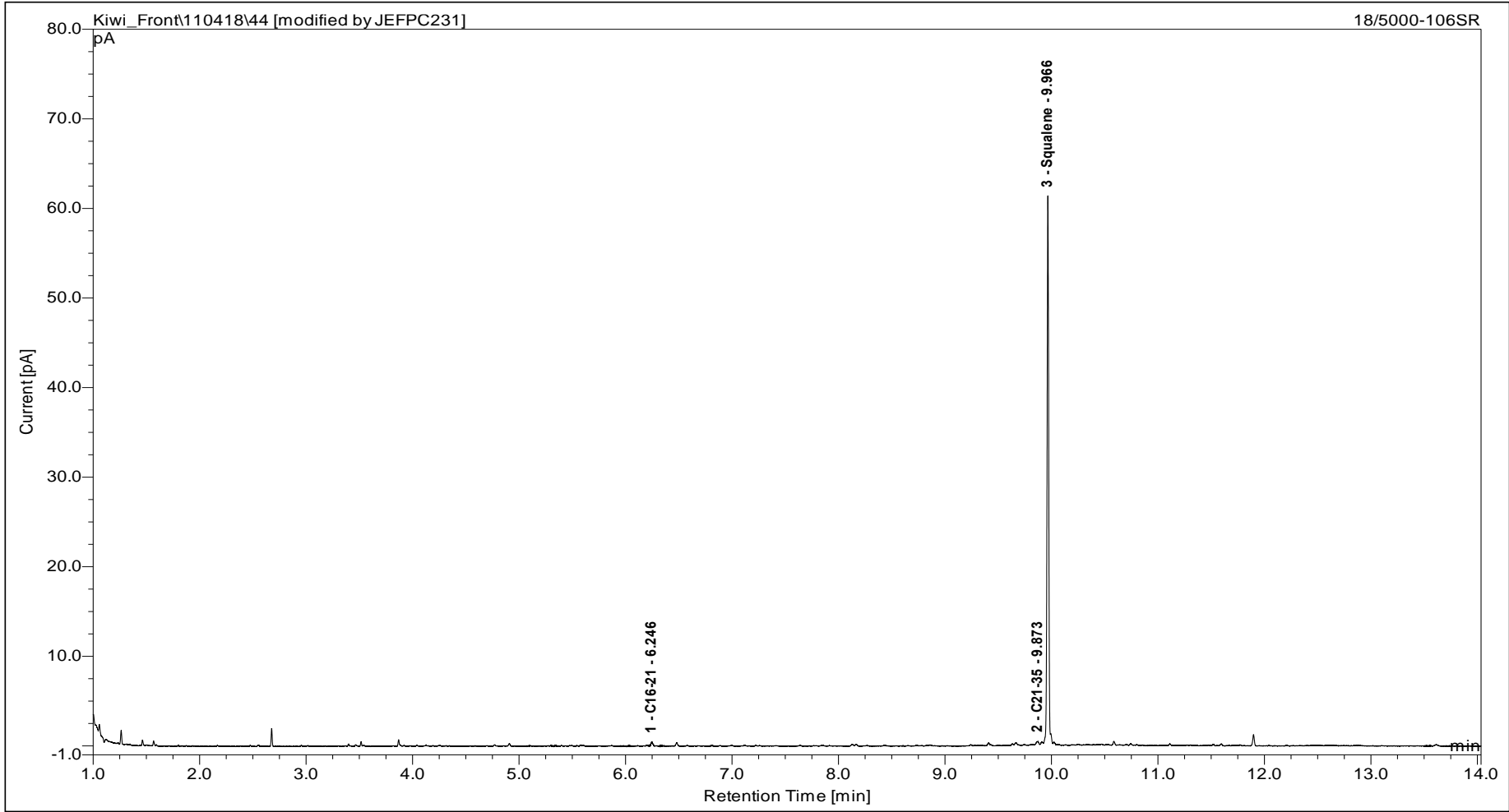
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 106
Sample Identity: 57629/TP#14-1
Depth:
Matrix: Solid



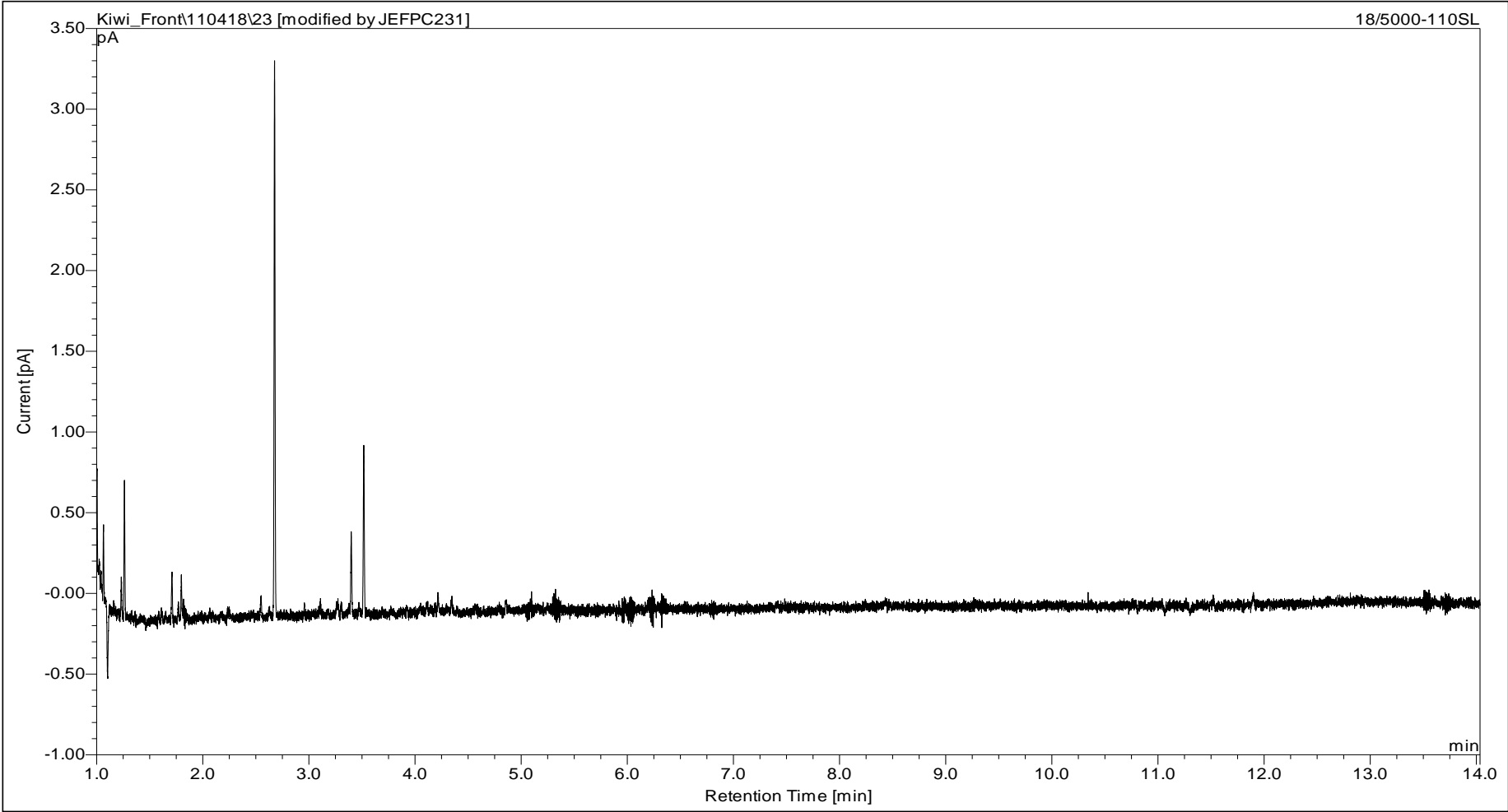
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 106
Sample Identity: 57629/TP#14-1
Depth:
Matrix: Solid



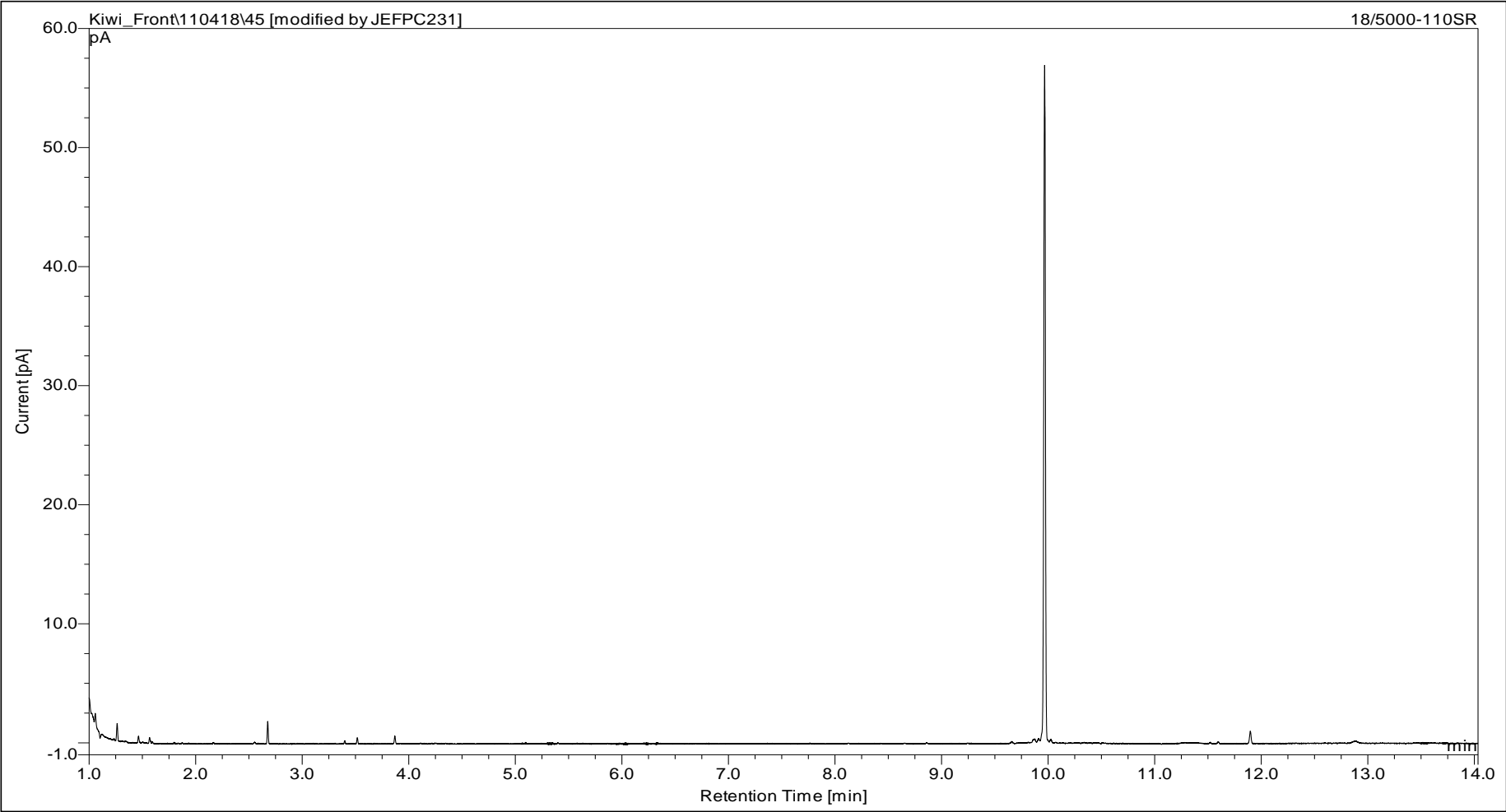
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 110
Sample Identity: 57629/TP#14-2
Depth:
Matrix: Solid



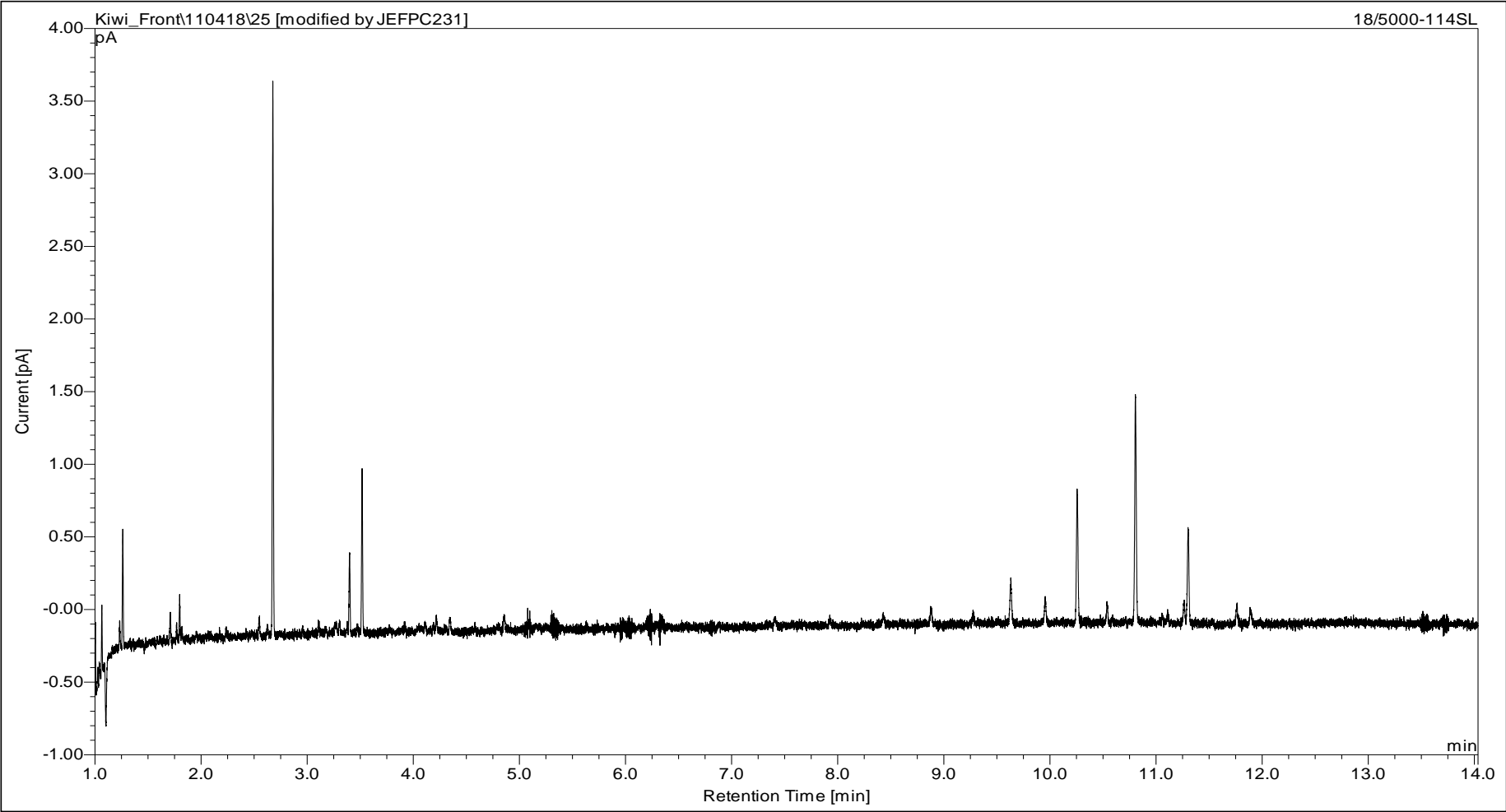
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 110
Sample Identity: 57629/TP#14-2
Depth:
Matrix: Solid



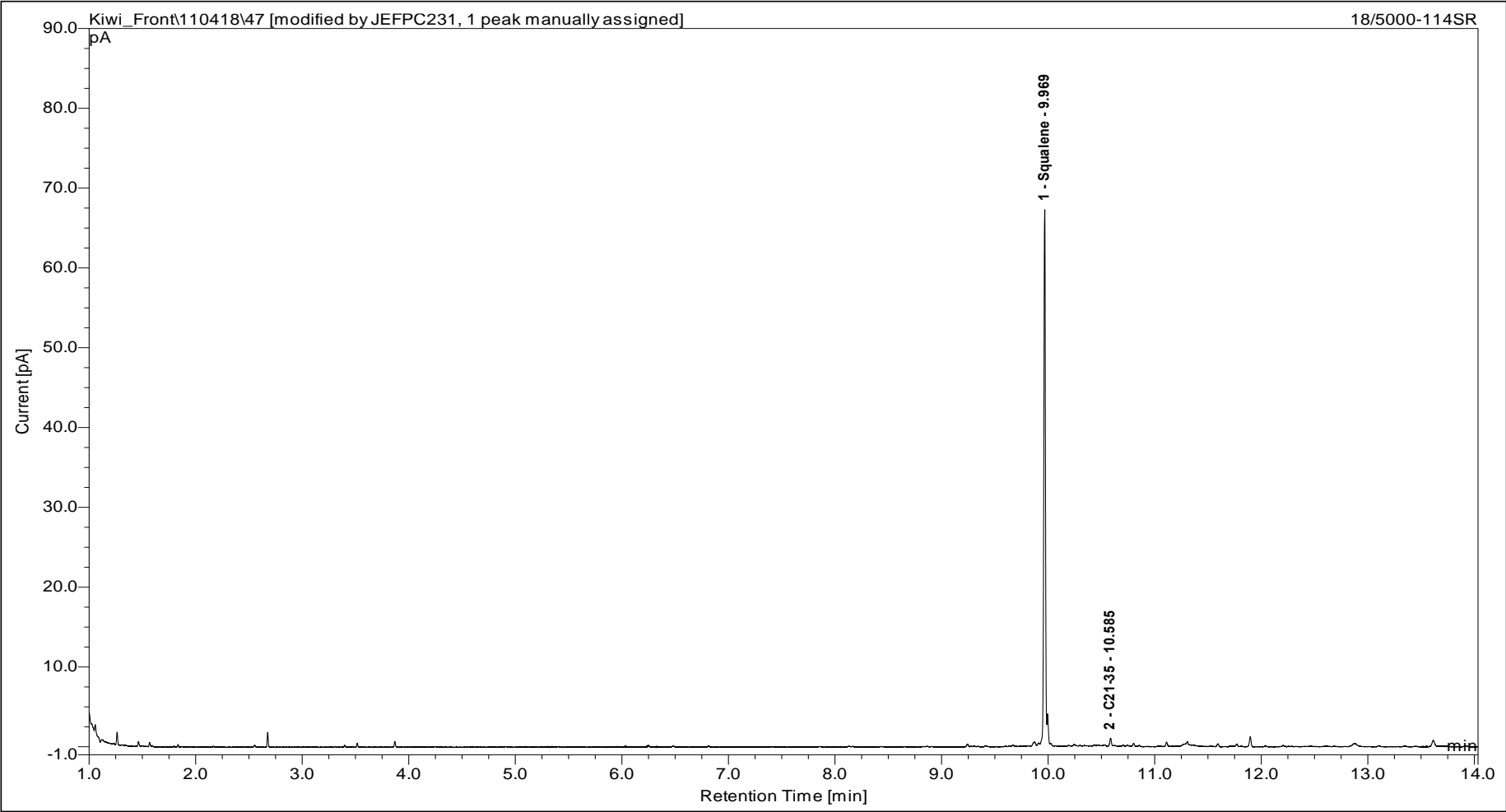
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 114
Sample Identity: 57629/TP#15-1
Depth:
Matrix: Solid



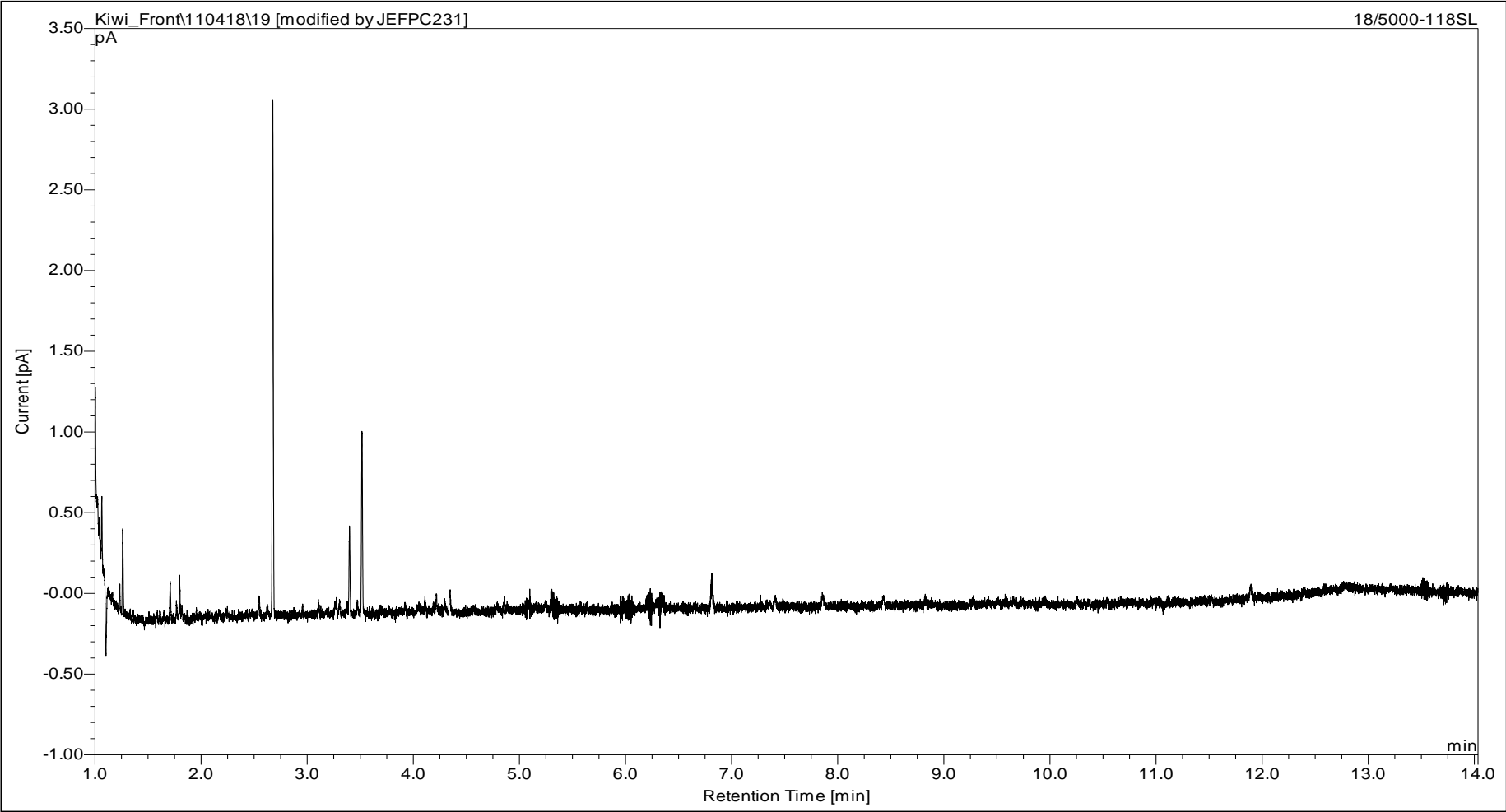
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 114
Sample Identity: 57629/TP#15-1
Depth:
Matrix: Solid



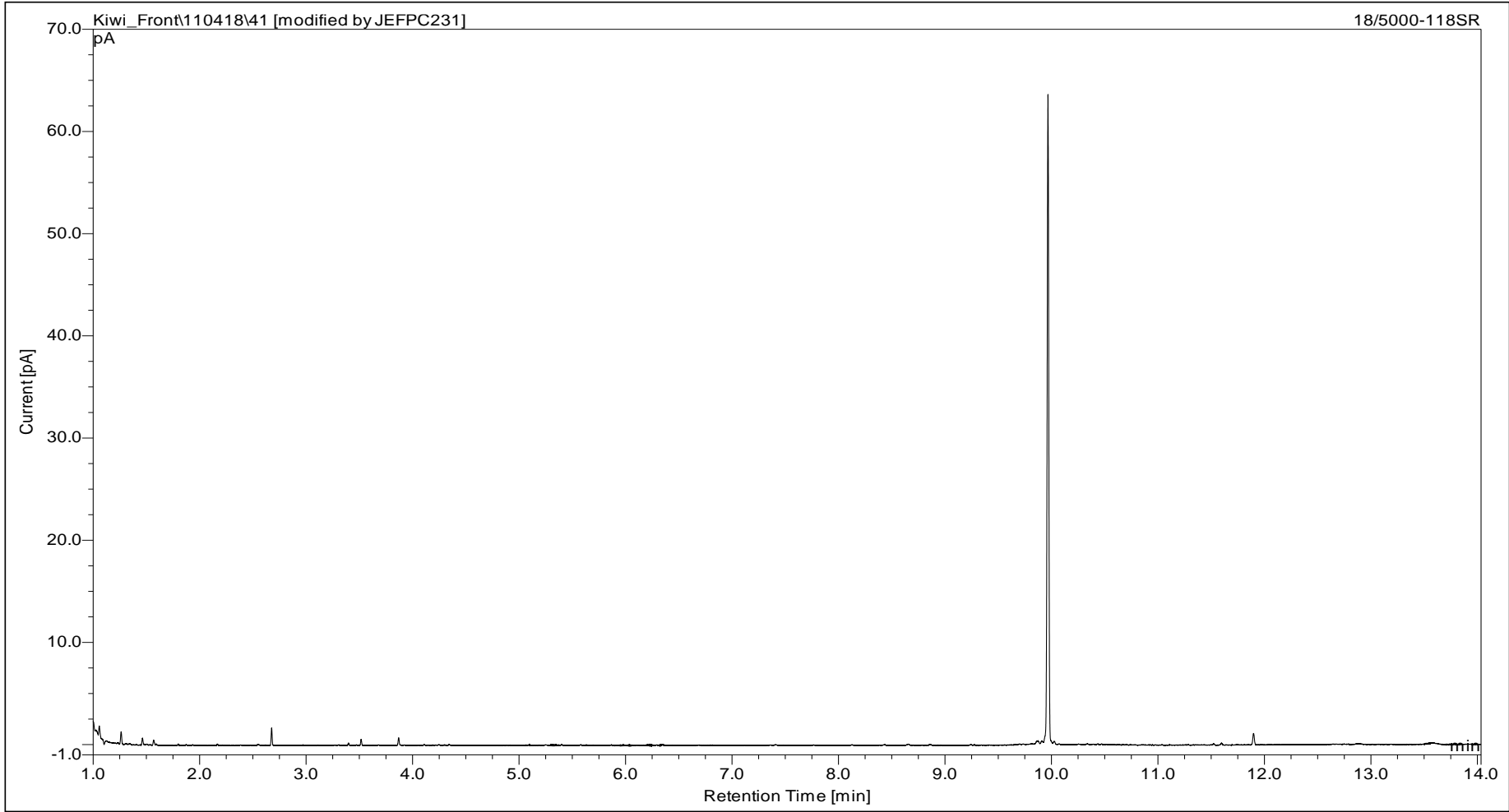
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 118
Sample Identity: 57629/TP#15-2
Depth:
Matrix: Solid



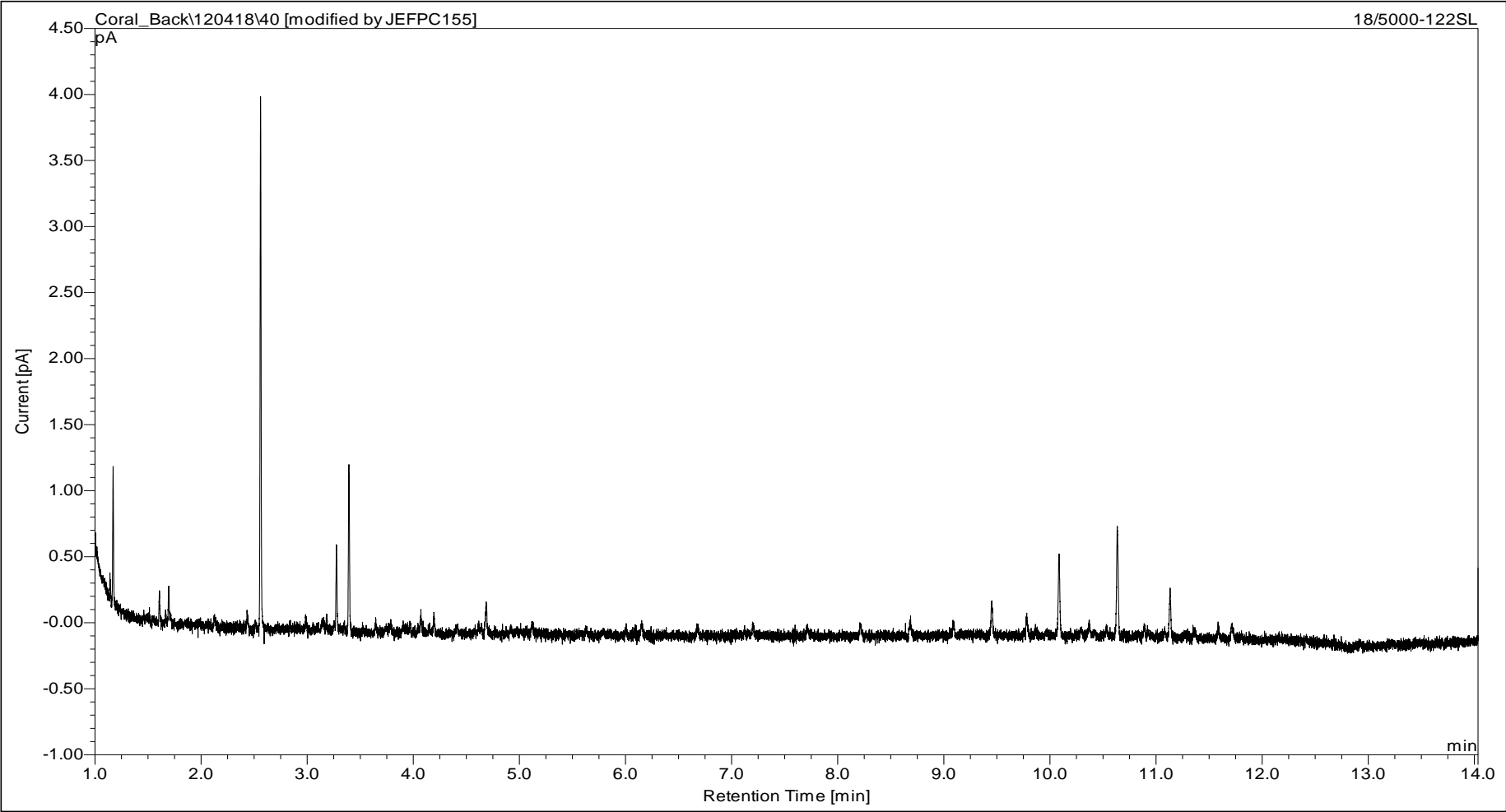
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 118
Sample Identity: 57629/TP#15-2
Depth:
Matrix: Solid



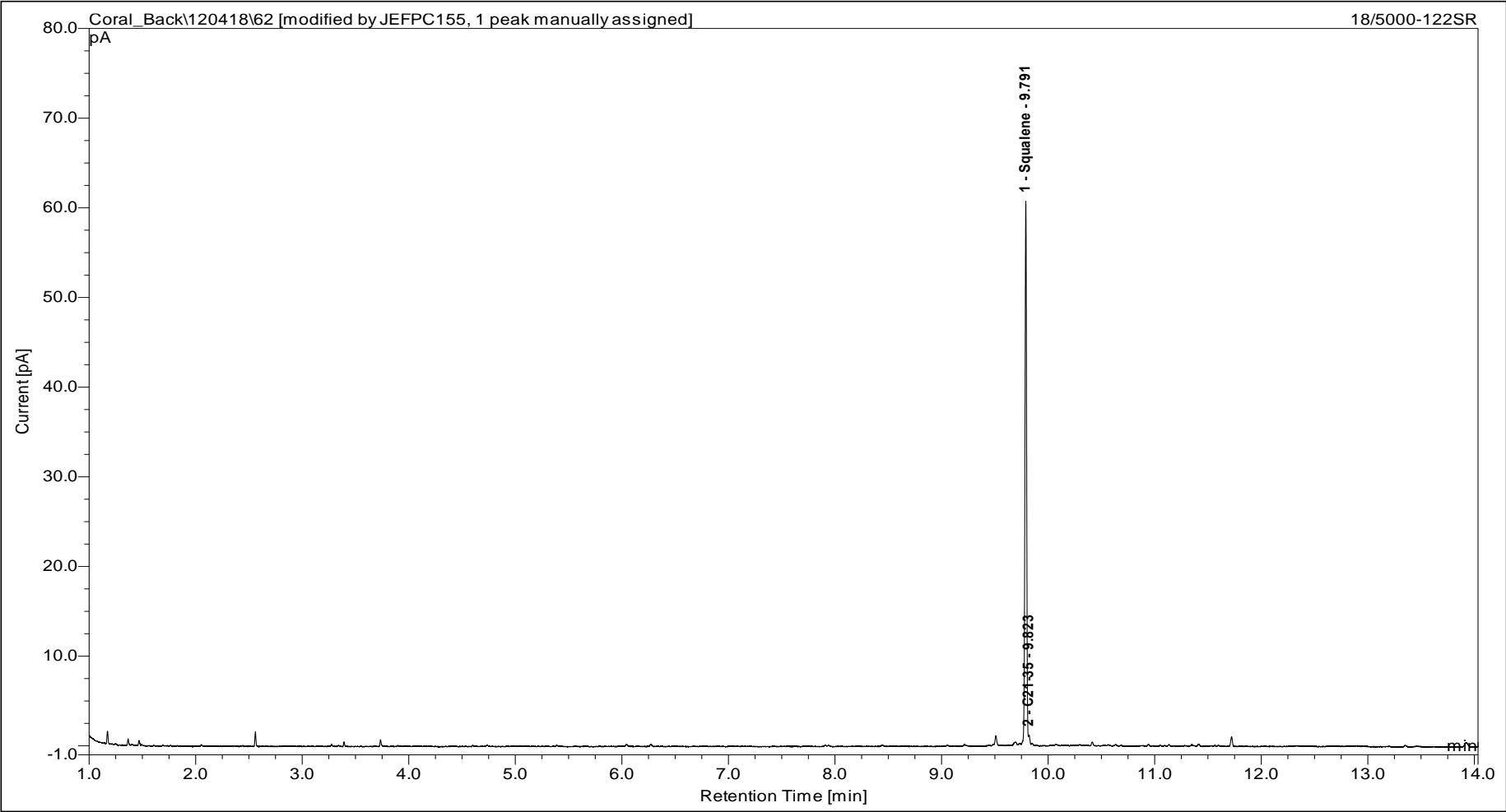
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 122
Sample Identity: 57629/TP#16-1
Depth:
Matrix: Solid



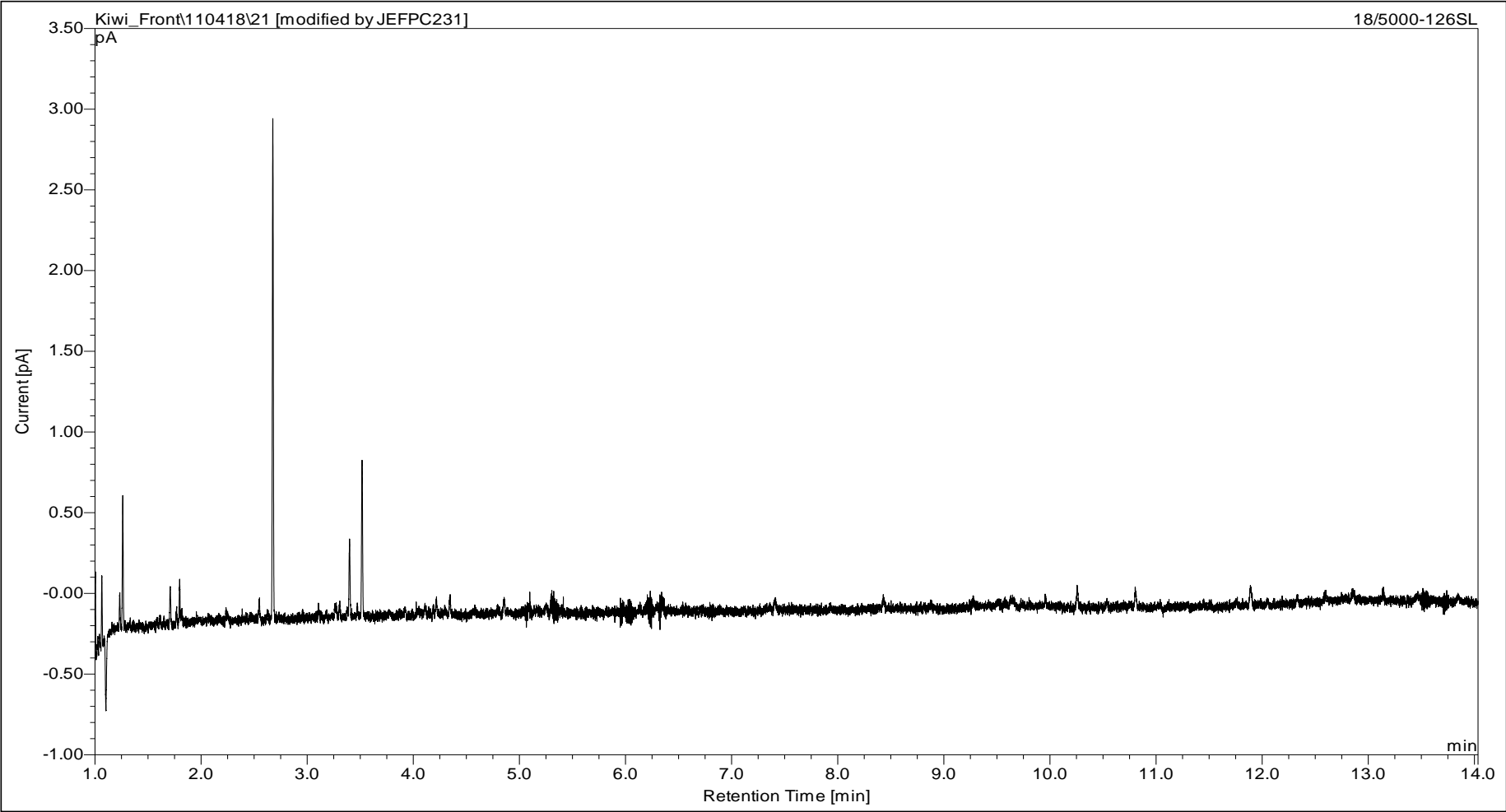
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 122
Sample Identity: 57629/TP#16-1
Depth:
Matrix: Solid



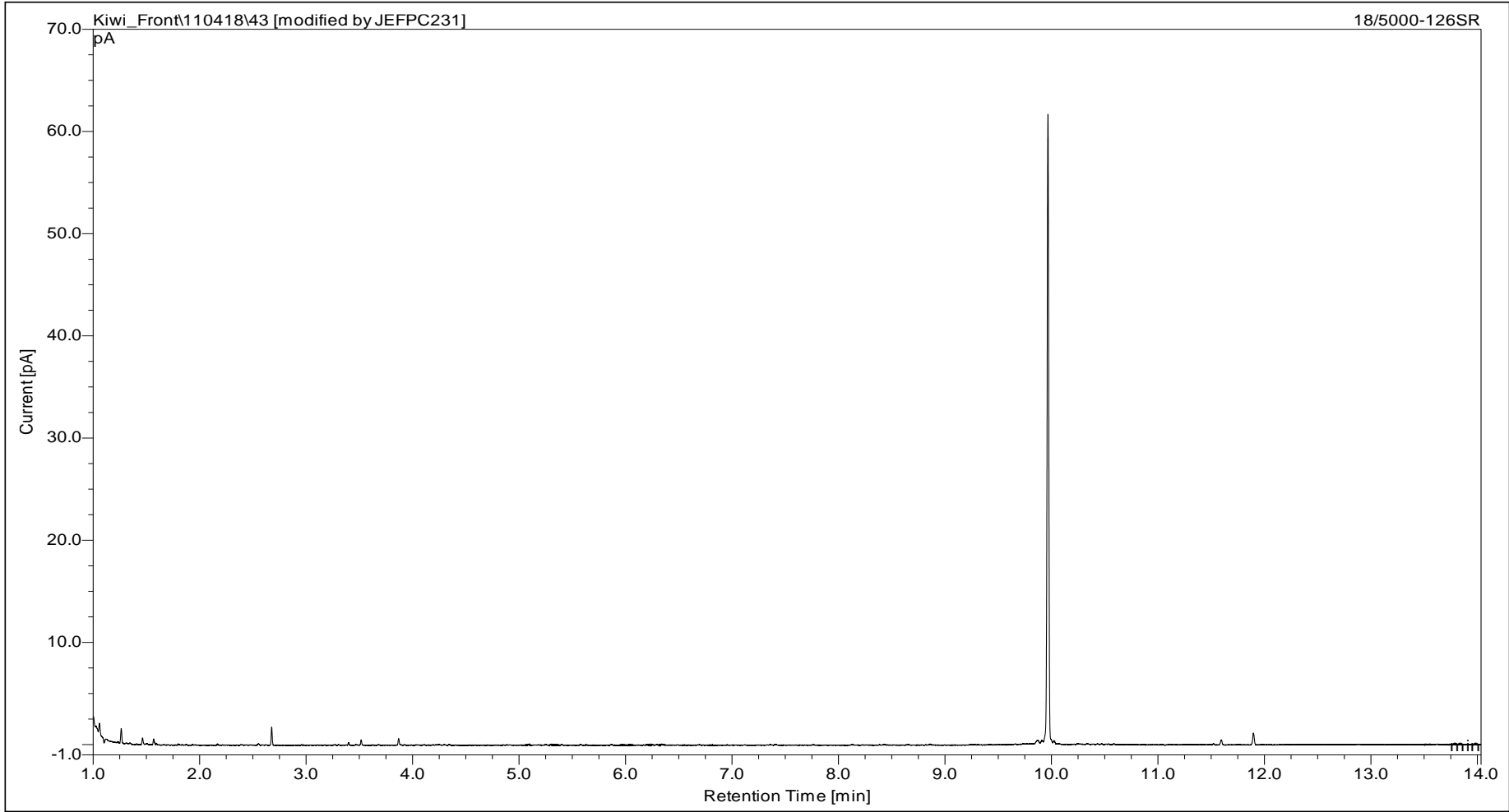
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 126
Sample Identity: 57629/TP#16-2
Depth:
Matrix: Solid



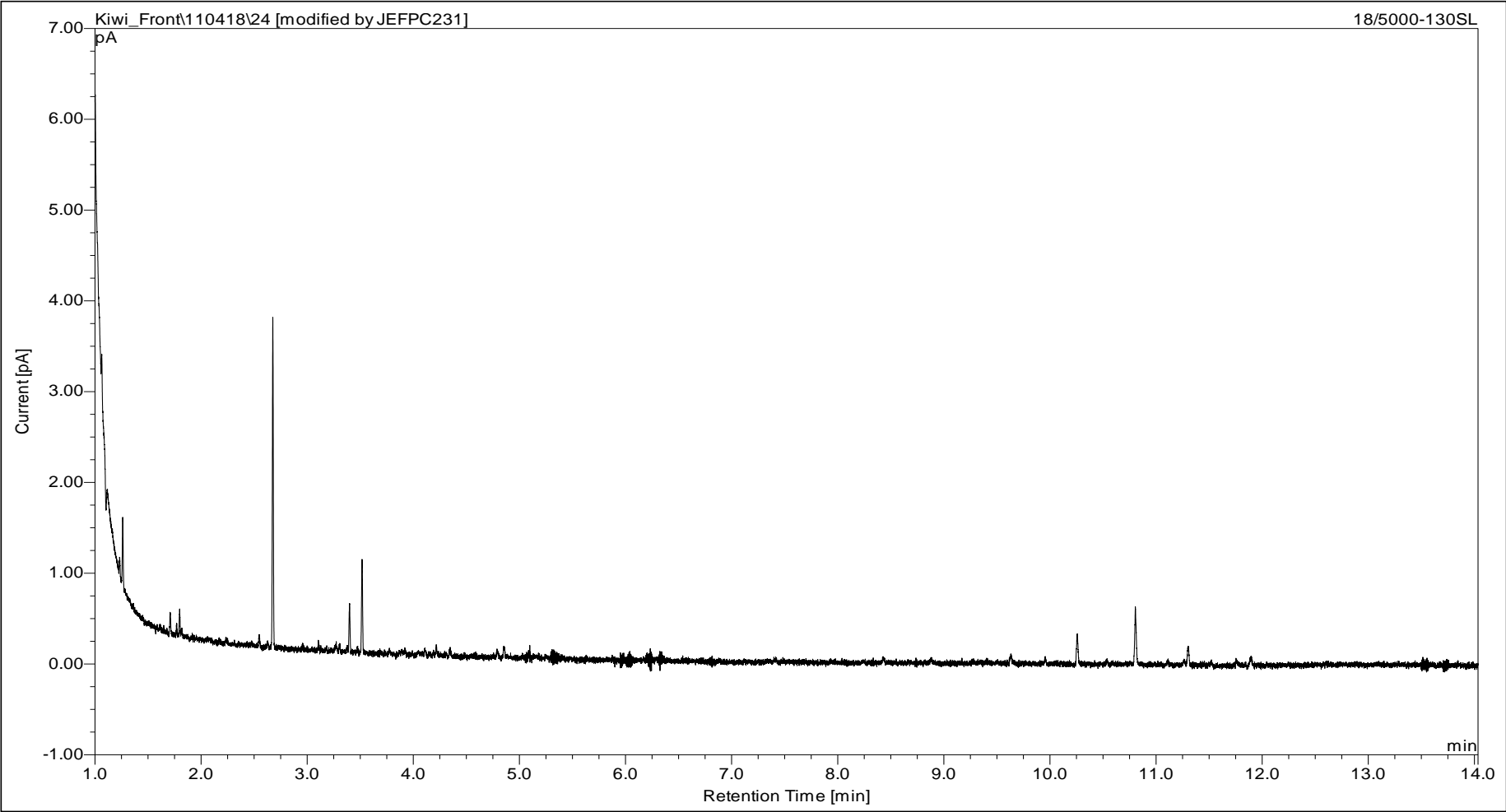
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 126
Sample Identity: 57629/TP#16-2
Depth:
Matrix: Solid



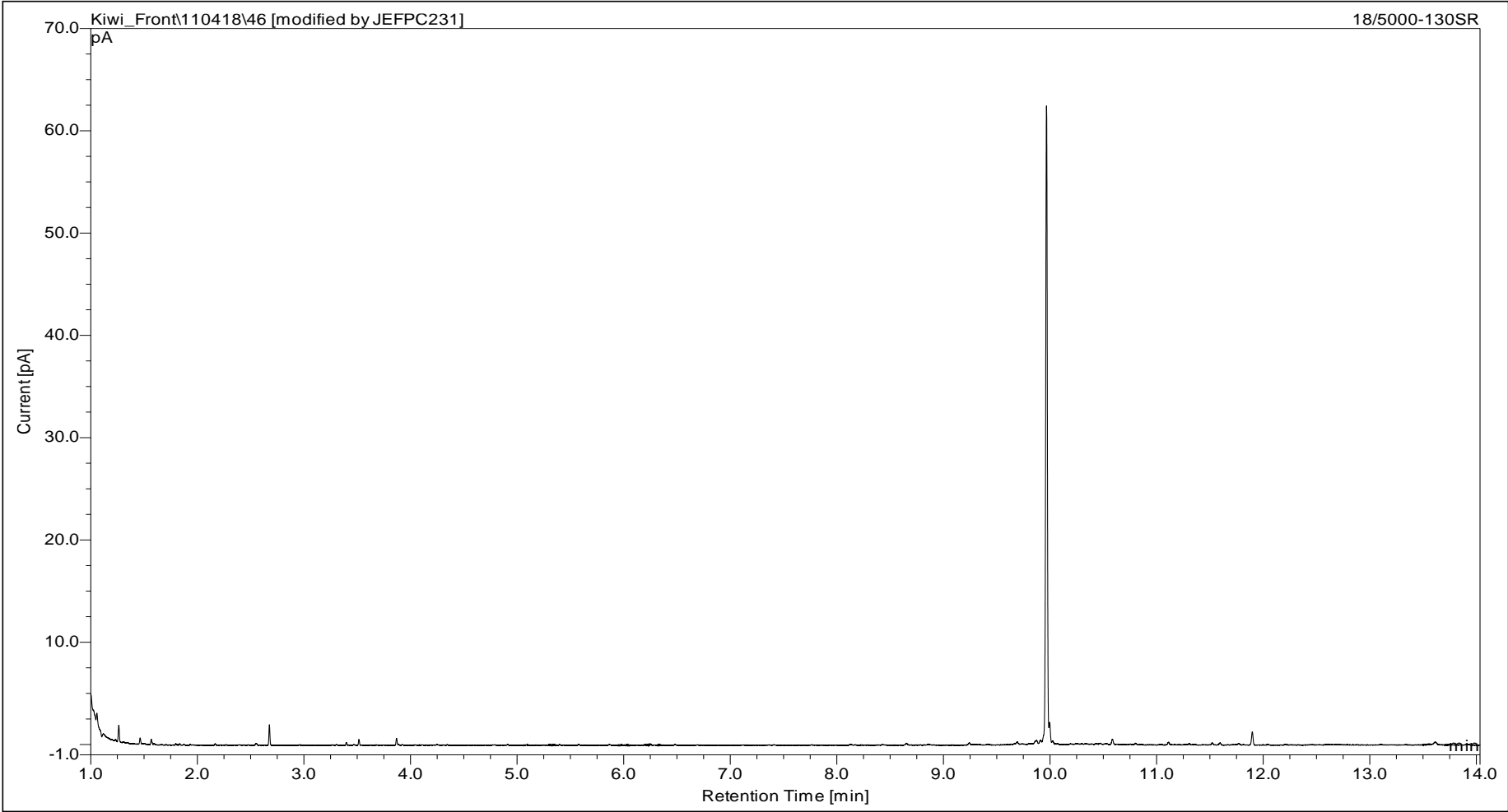
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 130
Sample Identity: 57629/TP#17-1
Depth:
Matrix: Solid



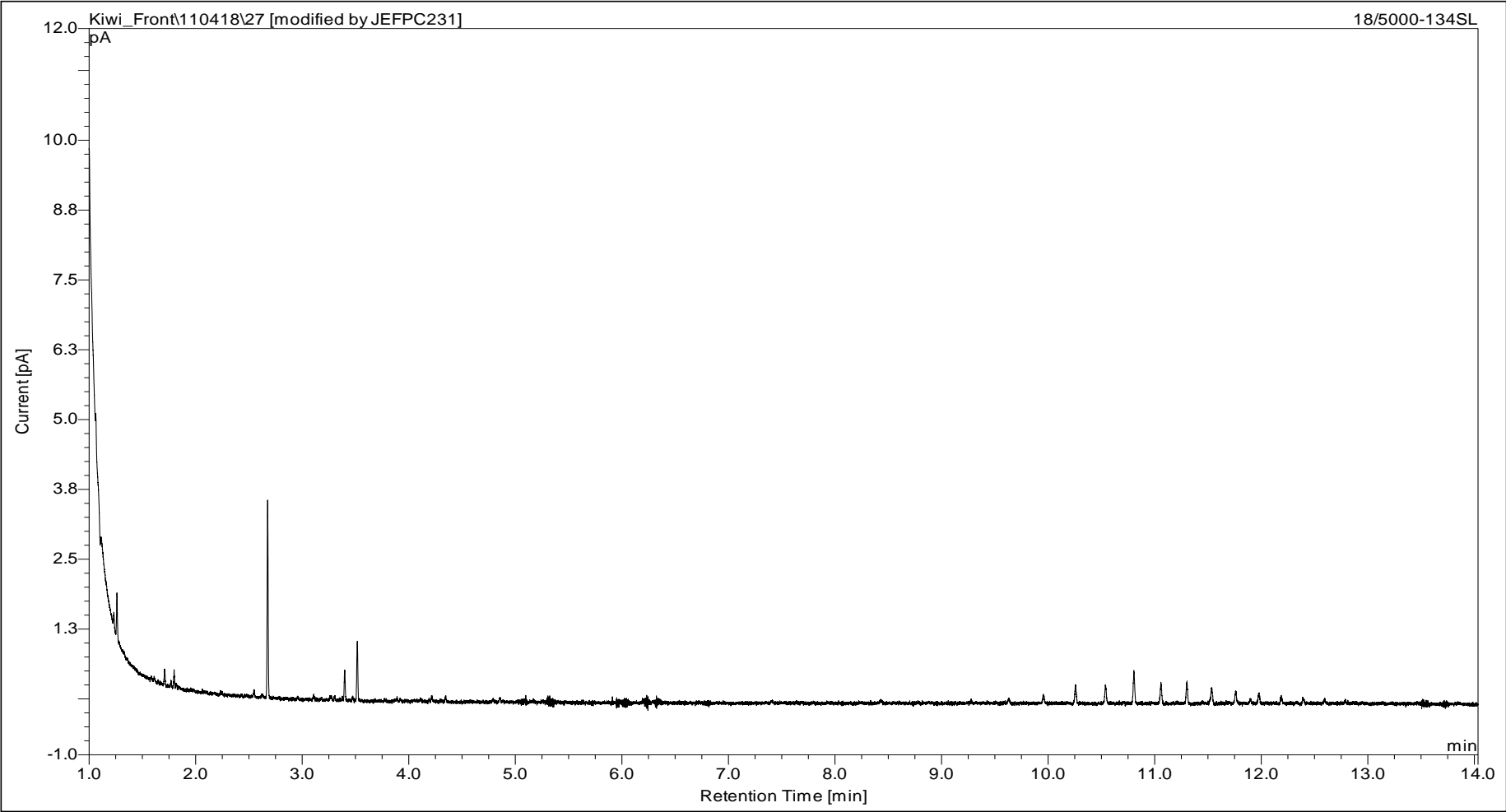
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 130
Sample Identity: 57629/TP#17-1
Depth:
Matrix: Solid



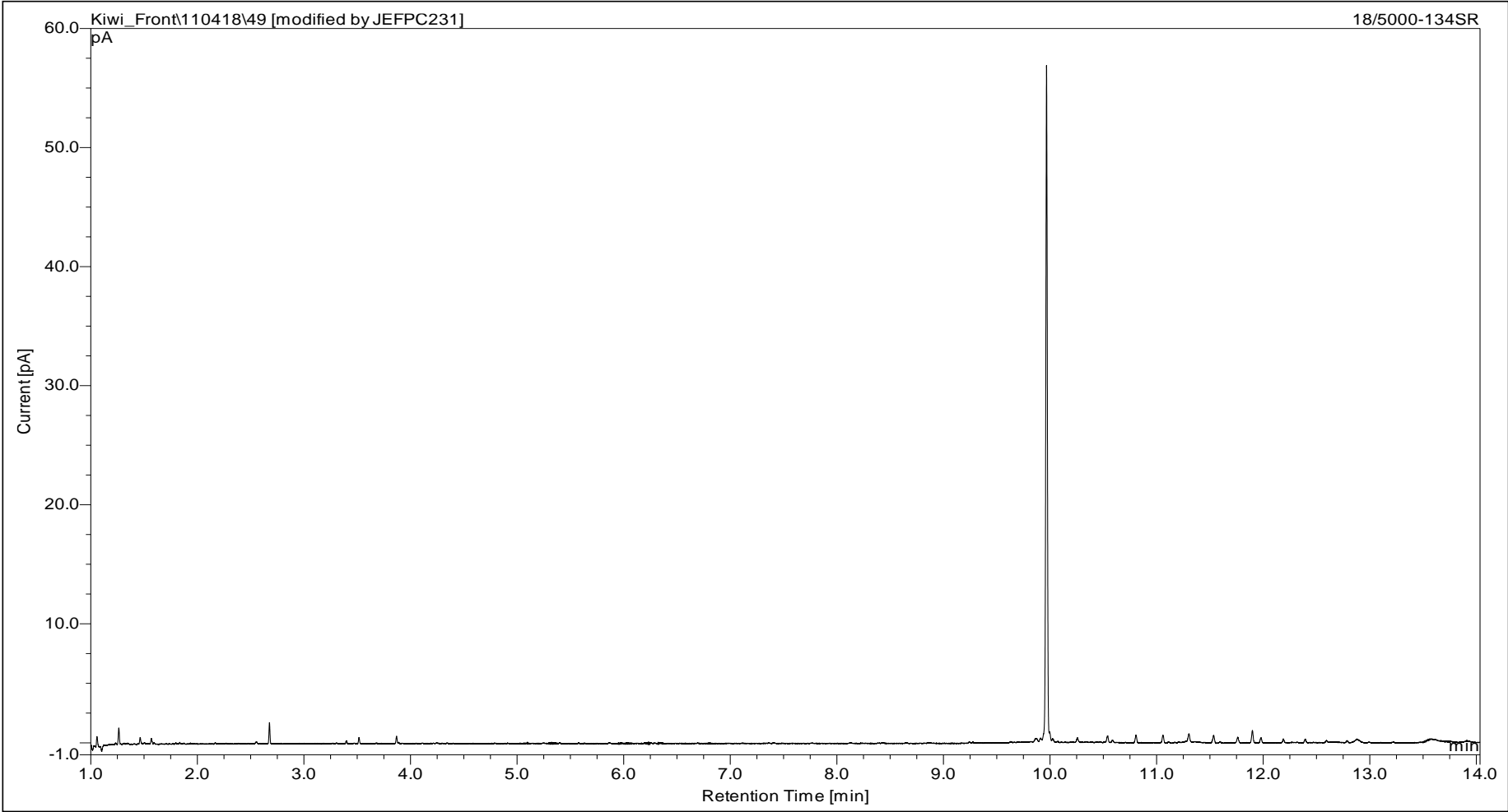
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 134
Sample Identity: 57629/TP#17-2
Depth:
Matrix: Solid



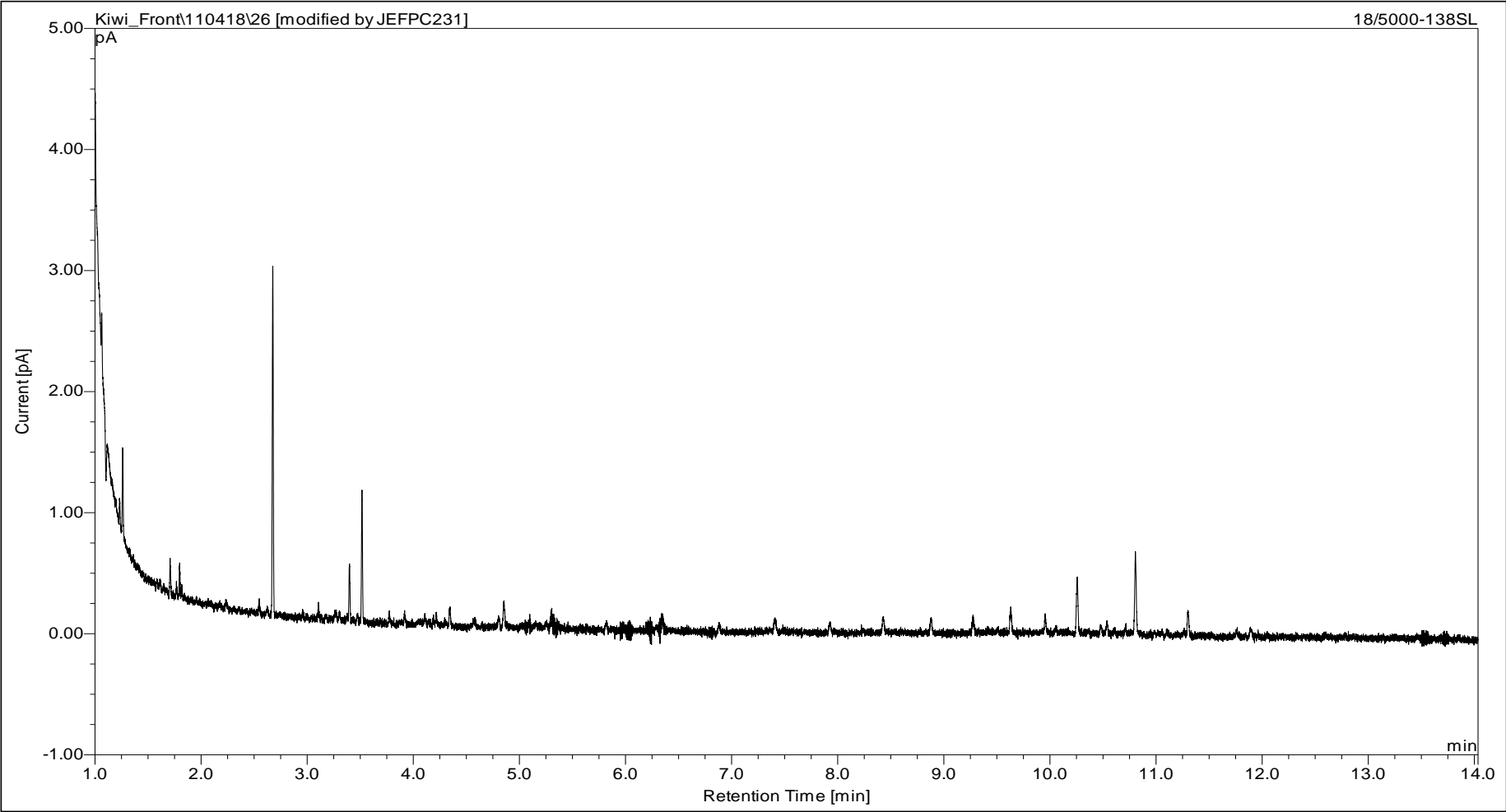
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 134
Sample Identity: 57629/TP#17-2
Depth:
Matrix: Solid



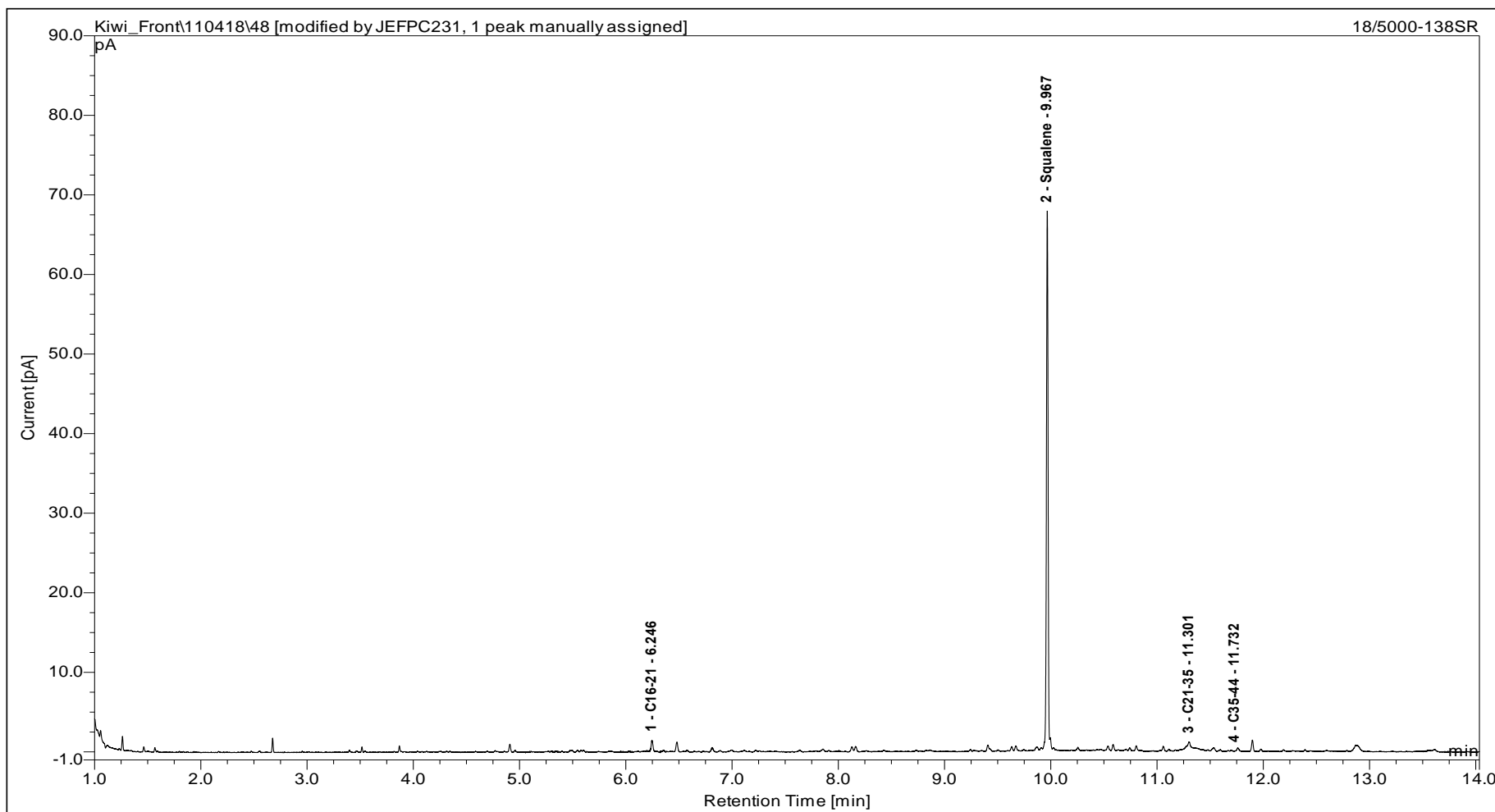
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 138
Sample Identity: 57629/TP#18-1
Depth:
Matrix: Solid



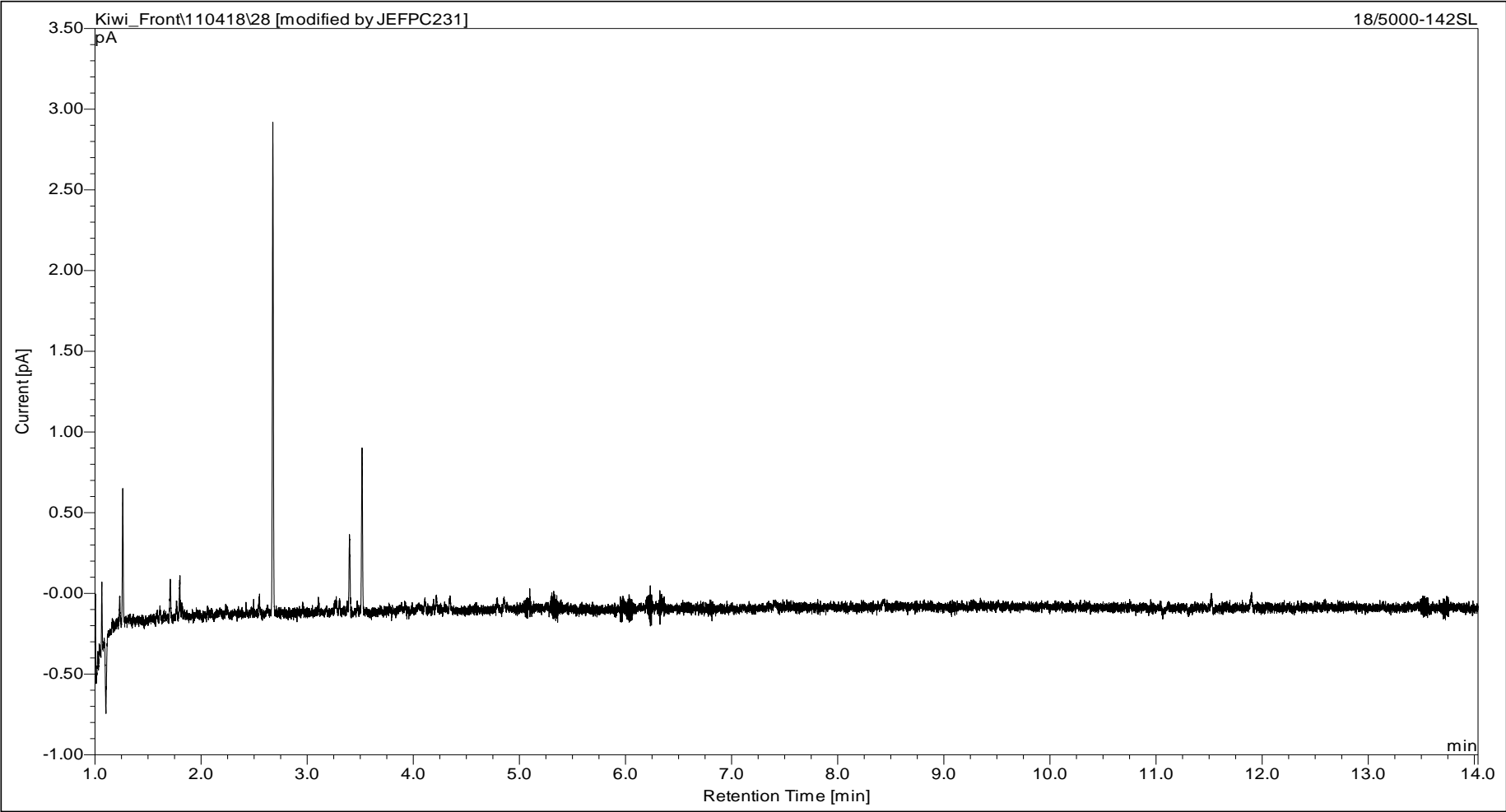
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 138
Sample Identity: 57629/TP#18-1
Depth:
Matrix: Solid



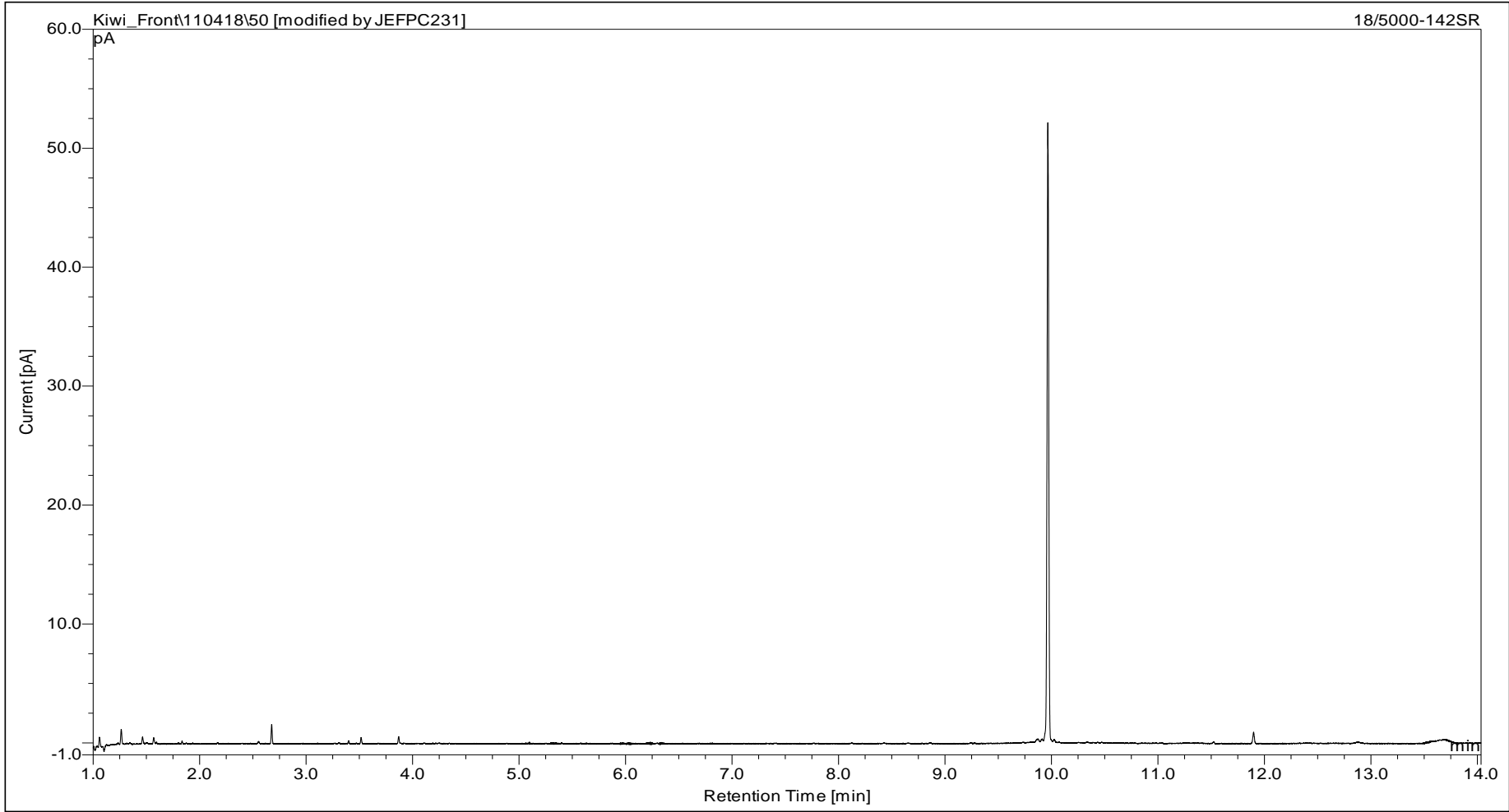
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 142
Sample Identity: 57629/TP#18-2
Depth:
Matrix: Solid



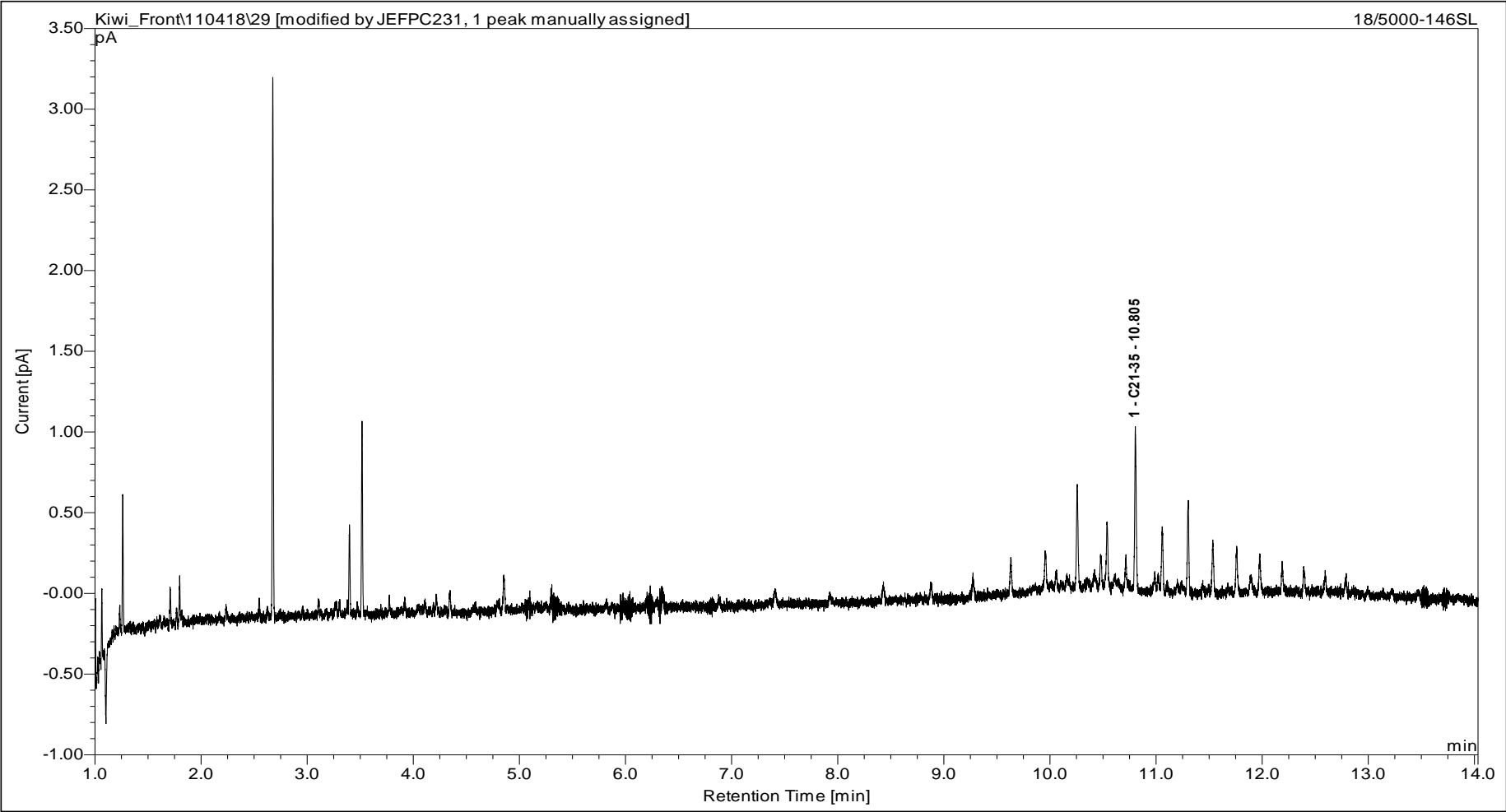
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 142
Sample Identity: 57629/TP#18-2
Depth:
Matrix: Solid



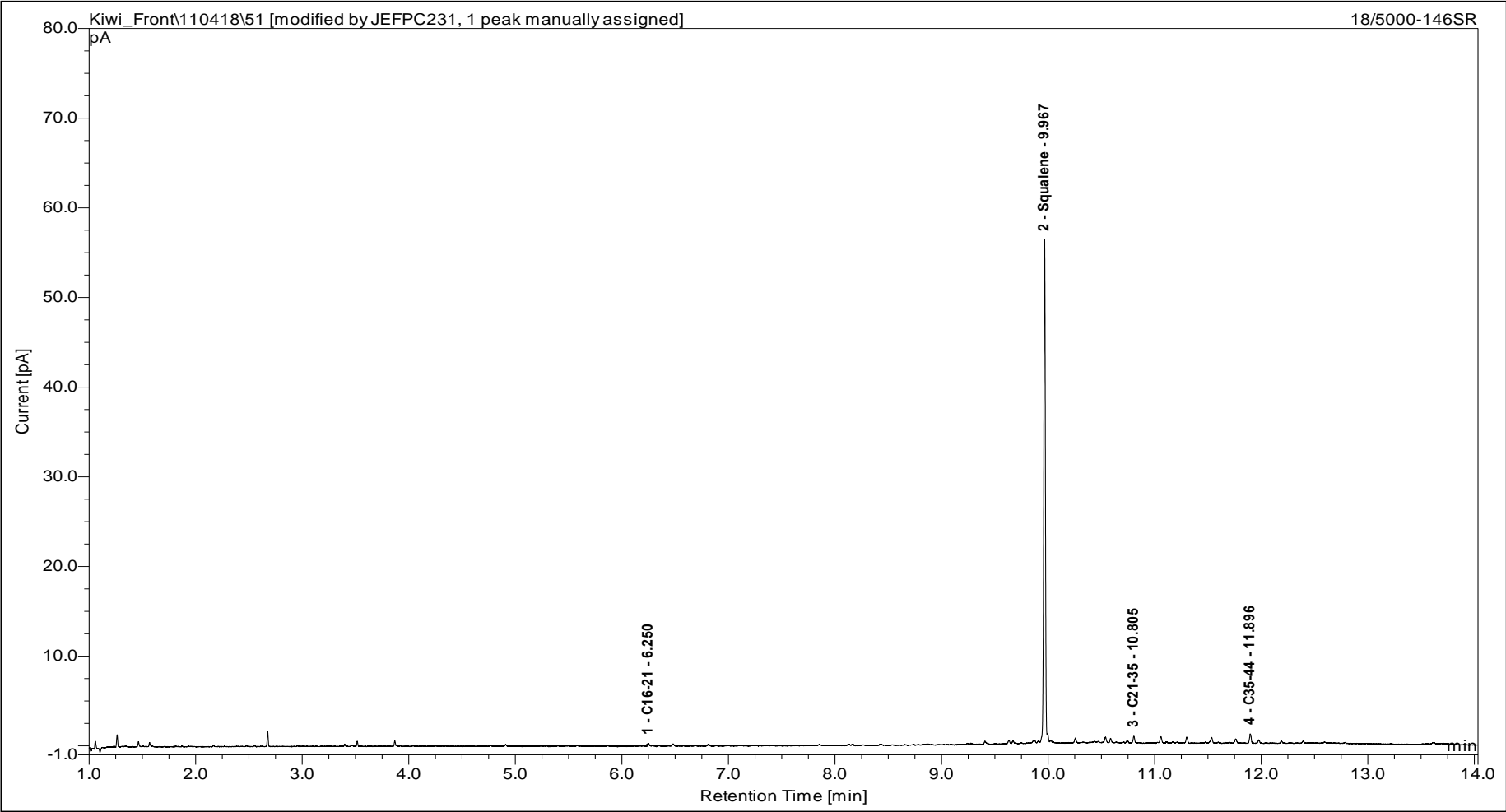
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 146
Sample Identity: 57629/TP#19-1
Depth:
Matrix: Solid



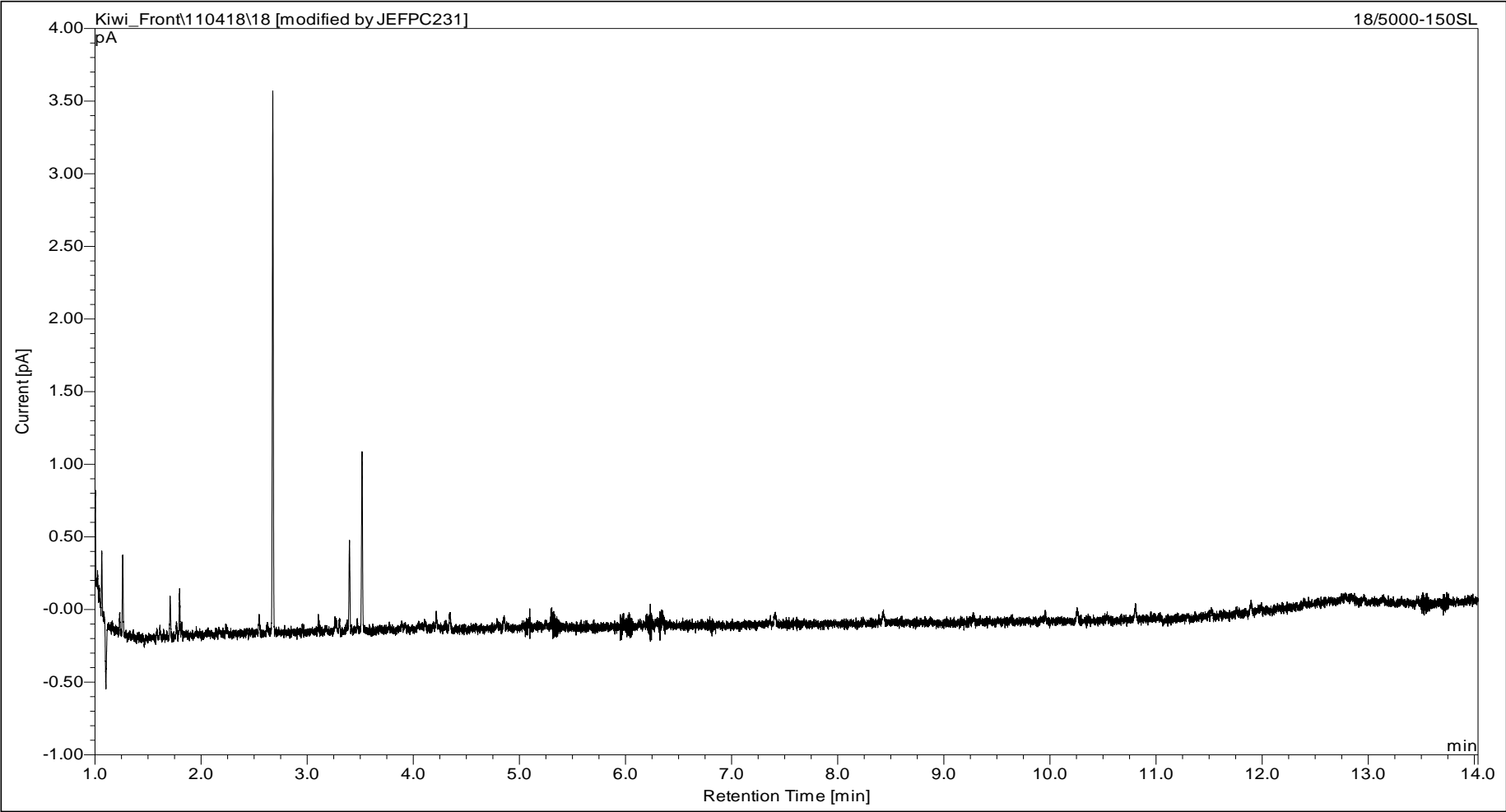
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 146
Sample Identity: 57629/TP#19-1
Depth:
Matrix: Solid



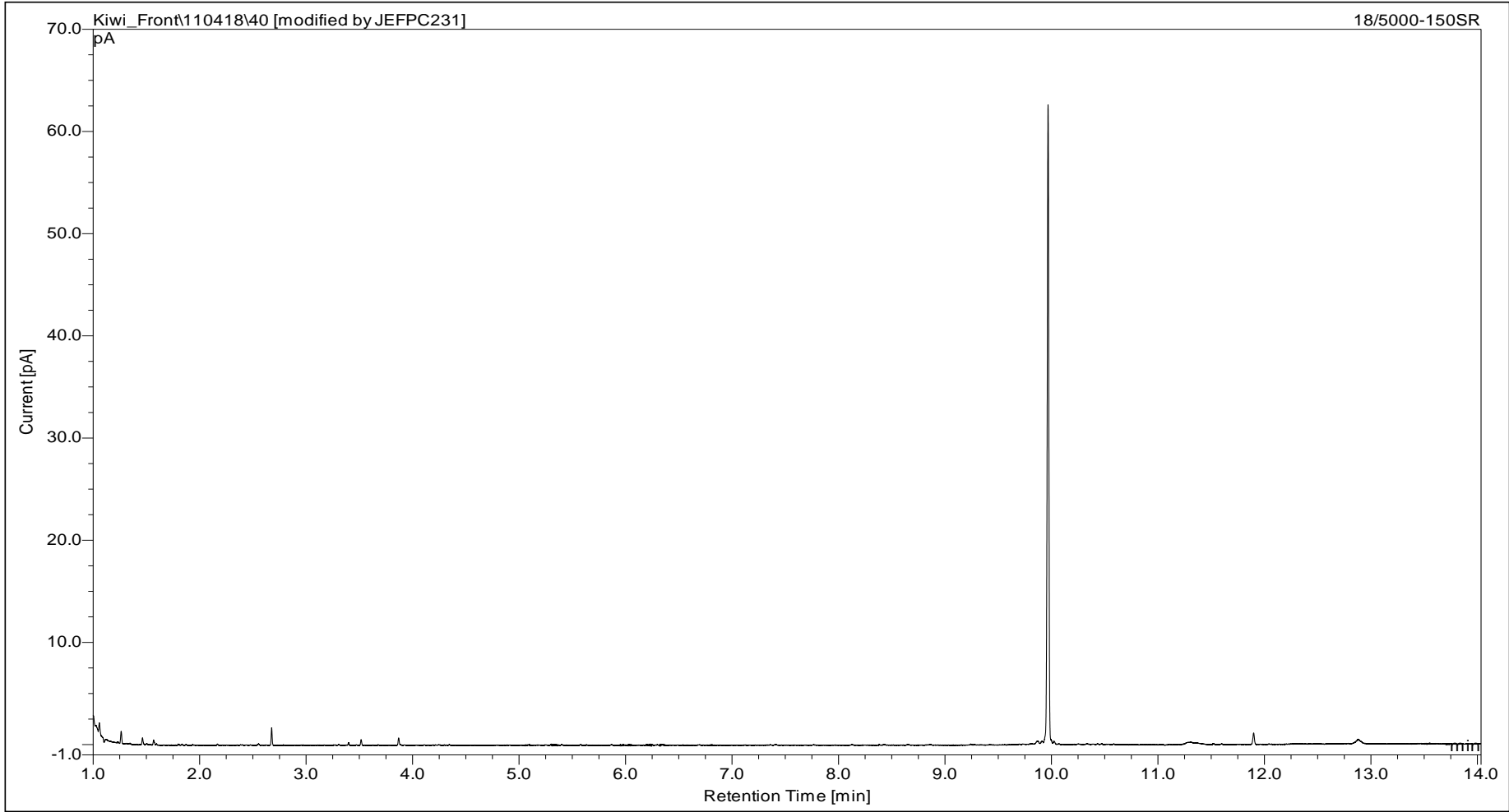
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 150
Sample Identity: 57629/TP#19-2
Depth:
Matrix: Solid



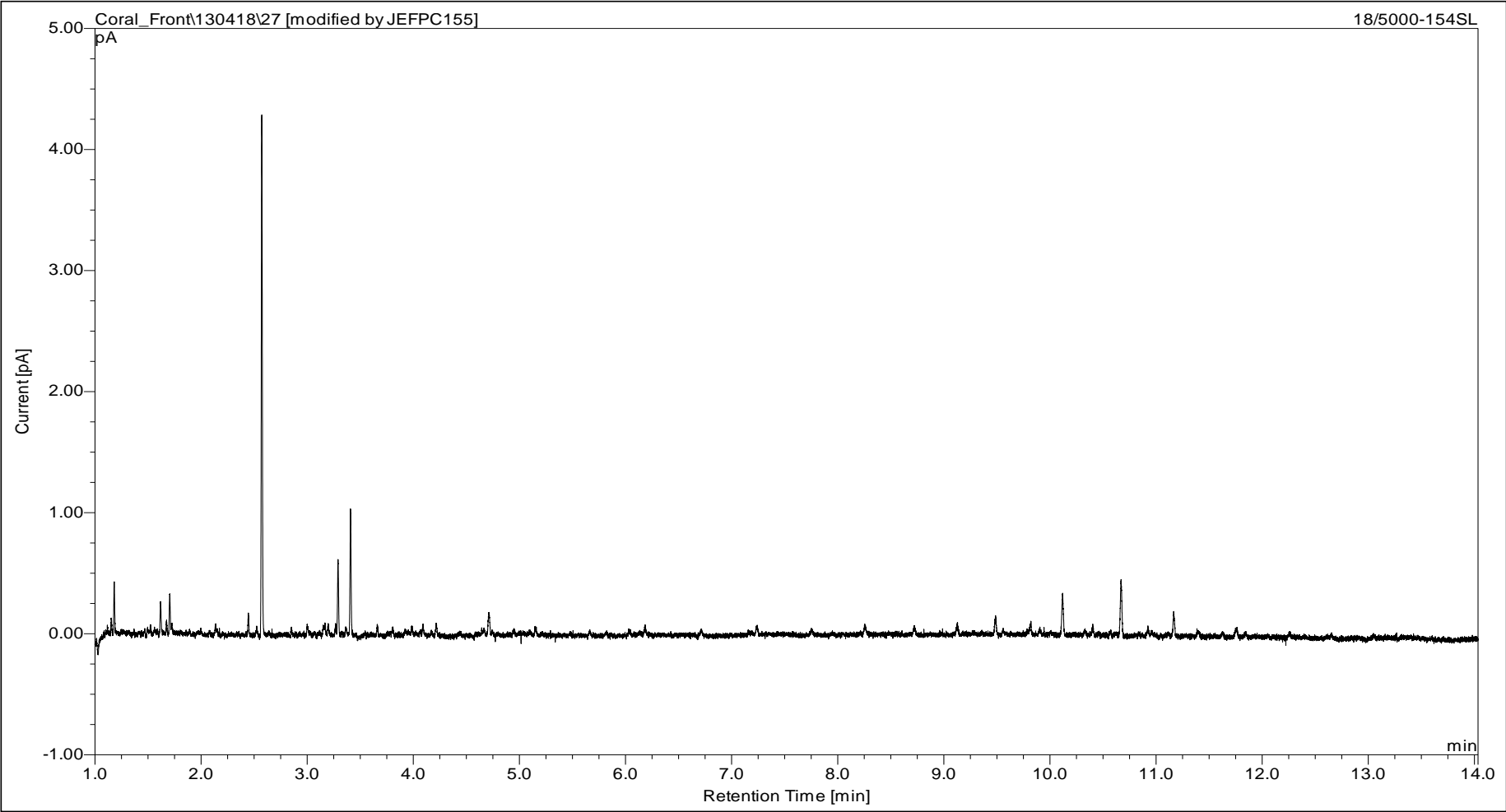
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 150
Sample Identity: 57629/TP#19-2
Depth:
Matrix: Solid



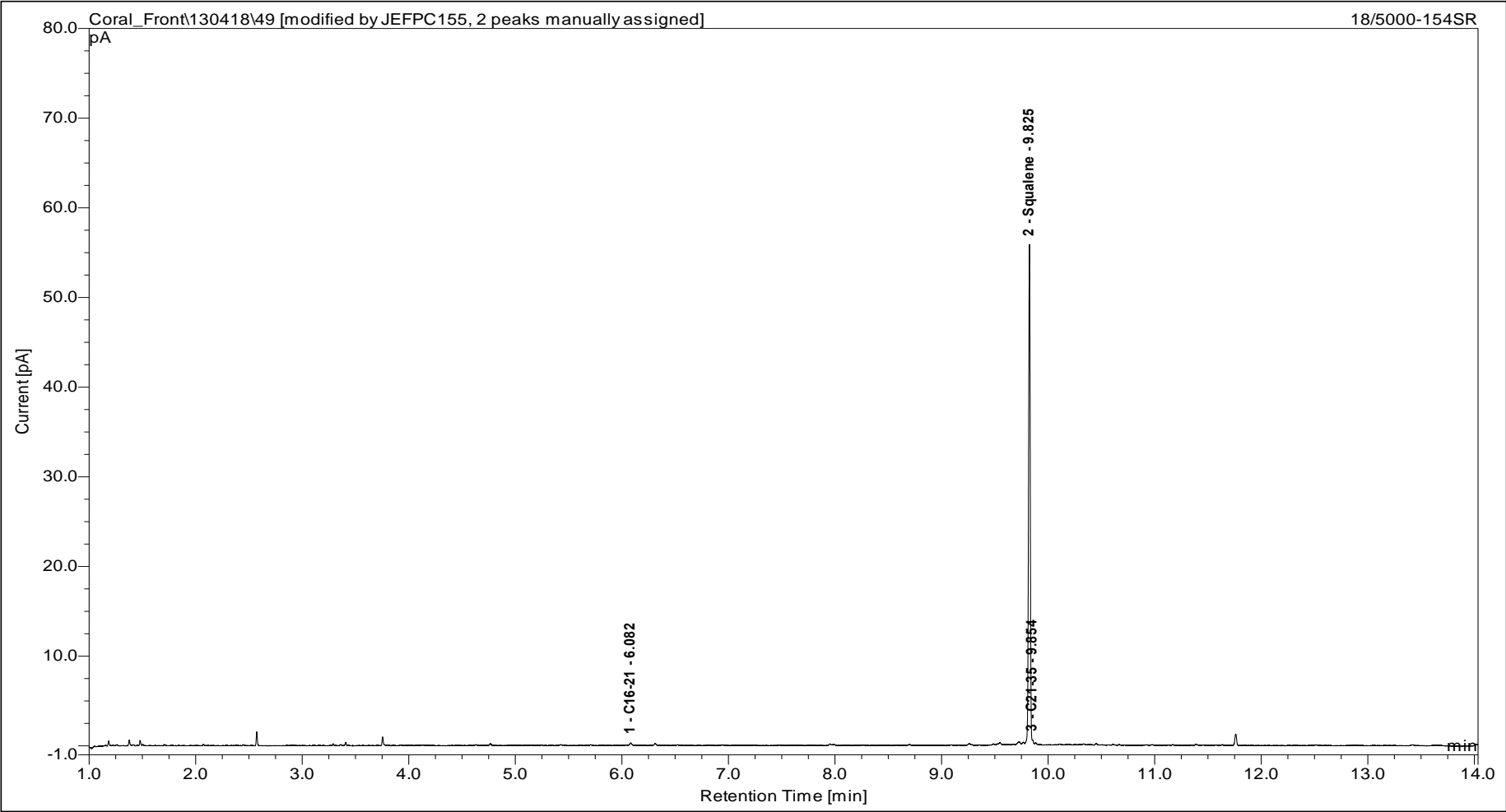
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 154
Sample Identity: 57629/TP#20-1
Depth:
Matrix: Solid



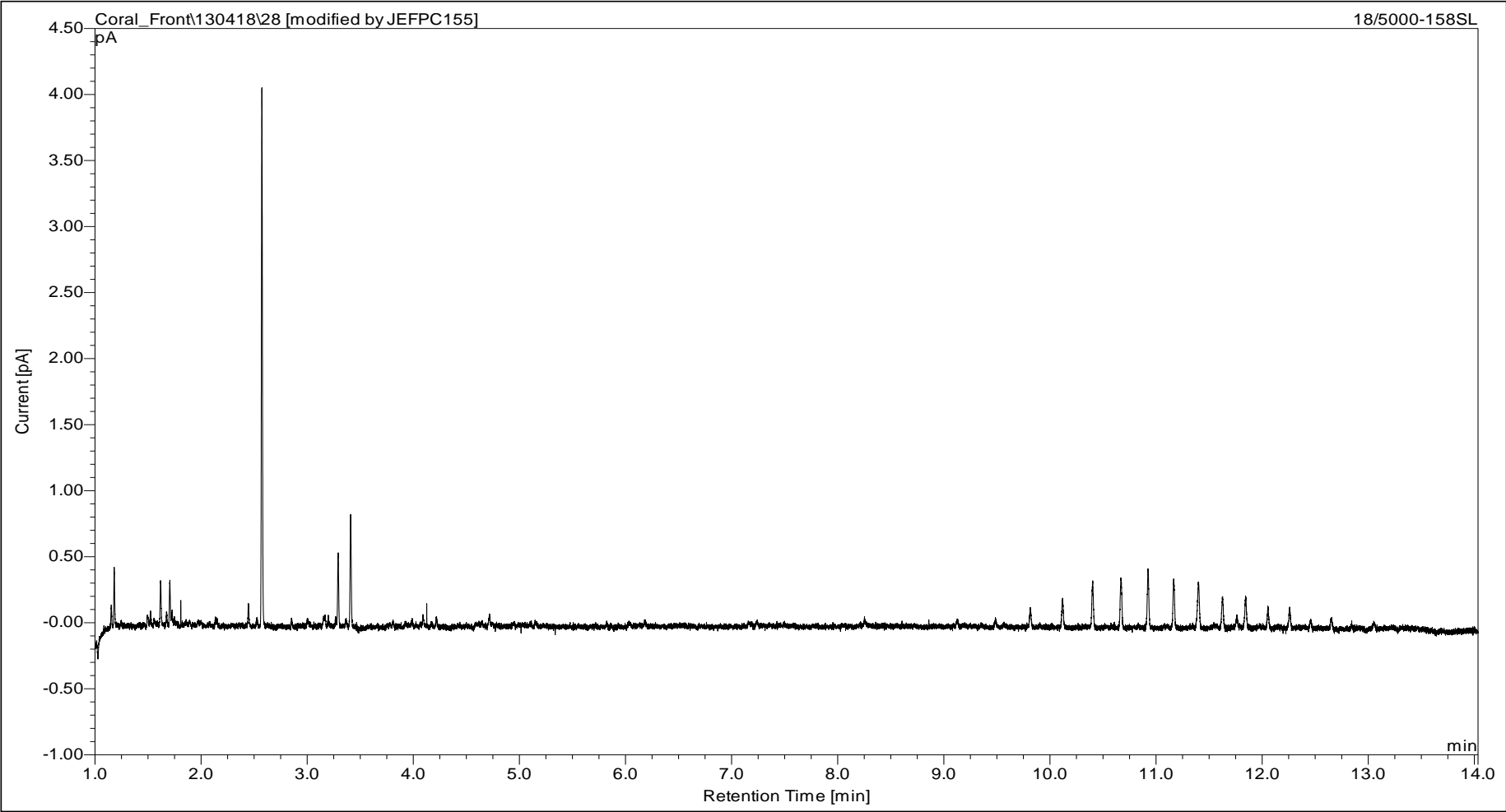
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 154
Sample Identity: 57629/TP#20-1
Depth:
Matrix: Solid



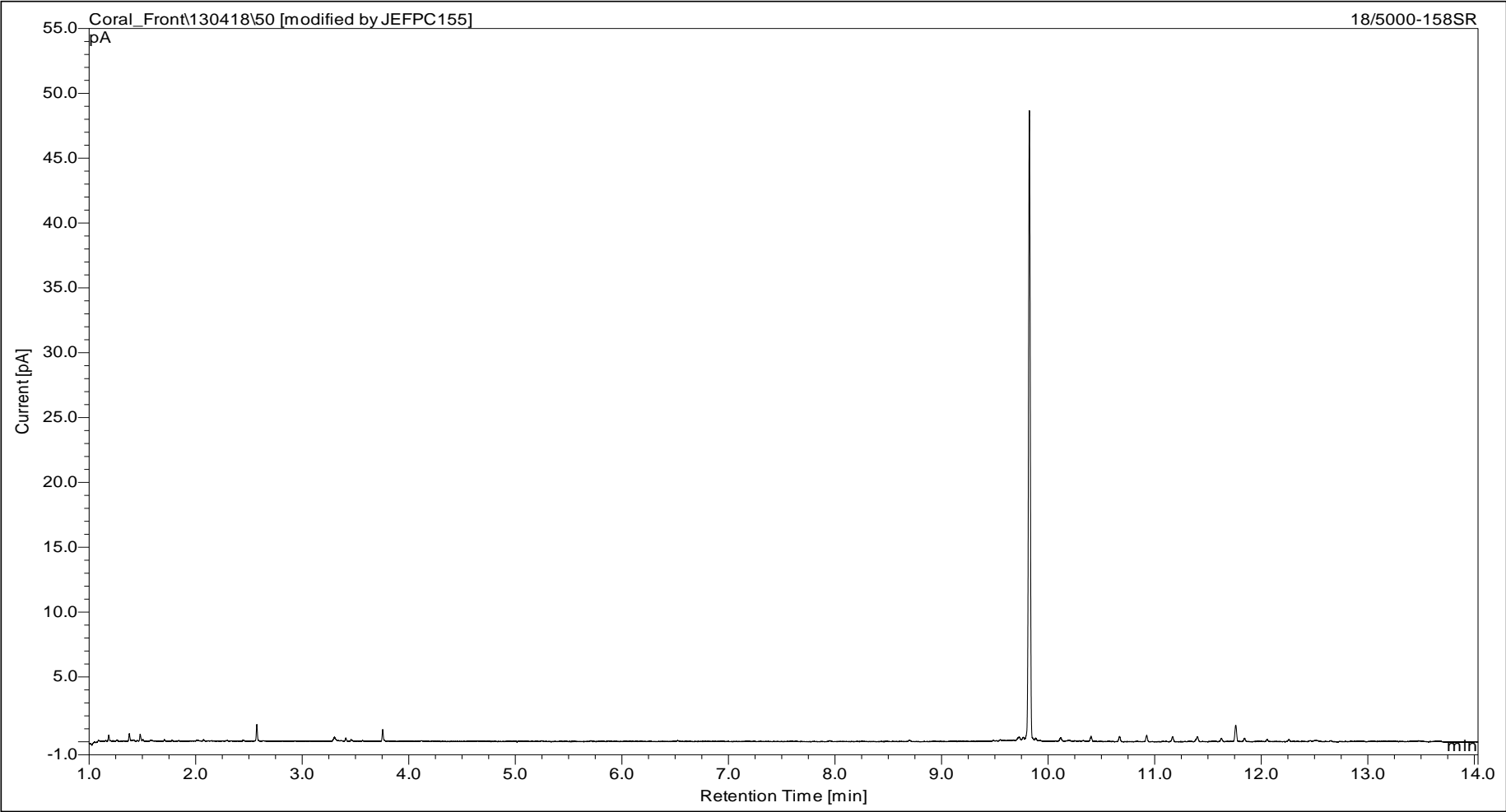
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 158
Sample Identity: 57629/TP#20-2
Depth:
Matrix: Solid



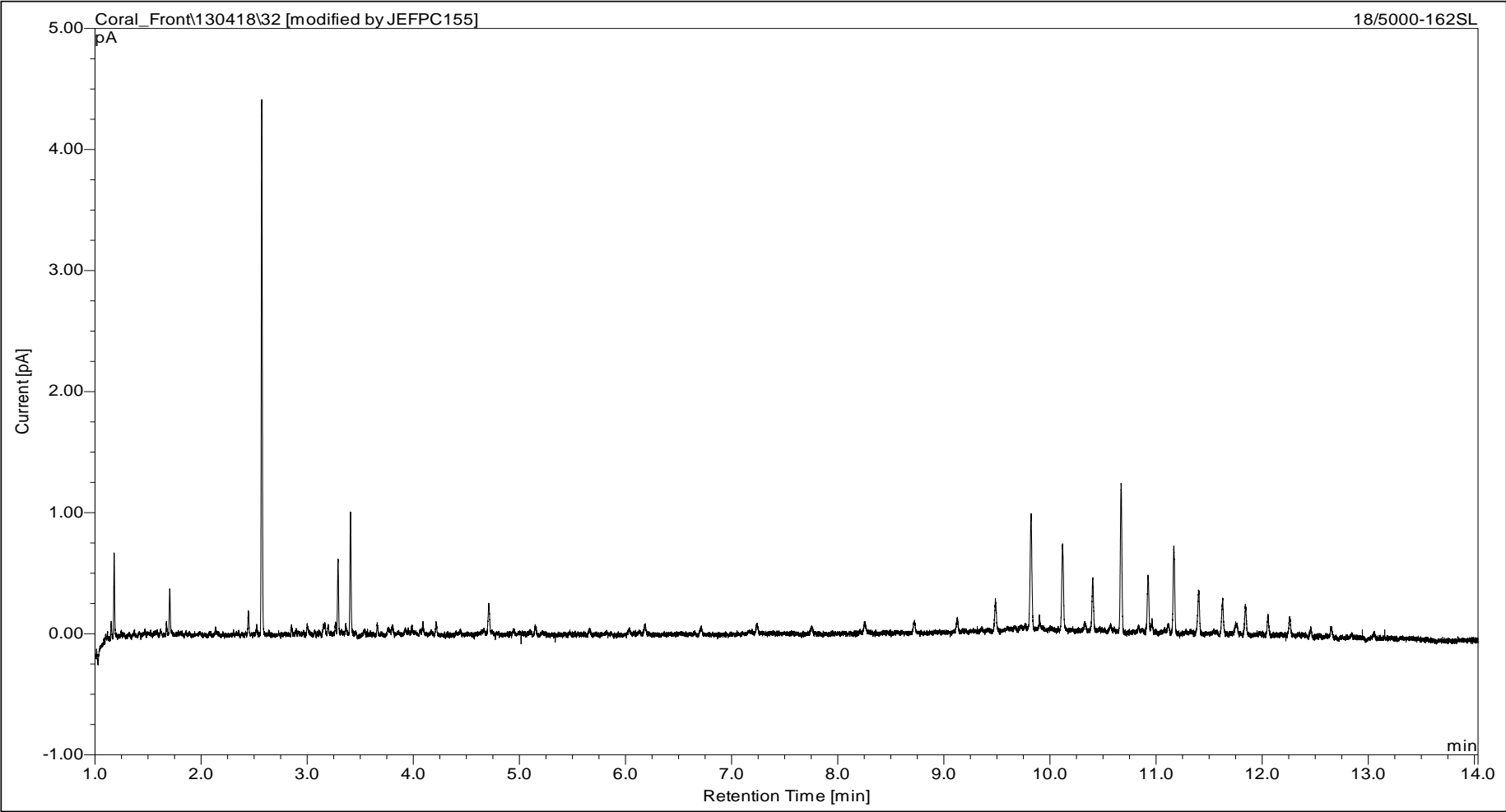
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 158
Sample Identity: 57629/TP#20-2
Depth:
Matrix: Solid



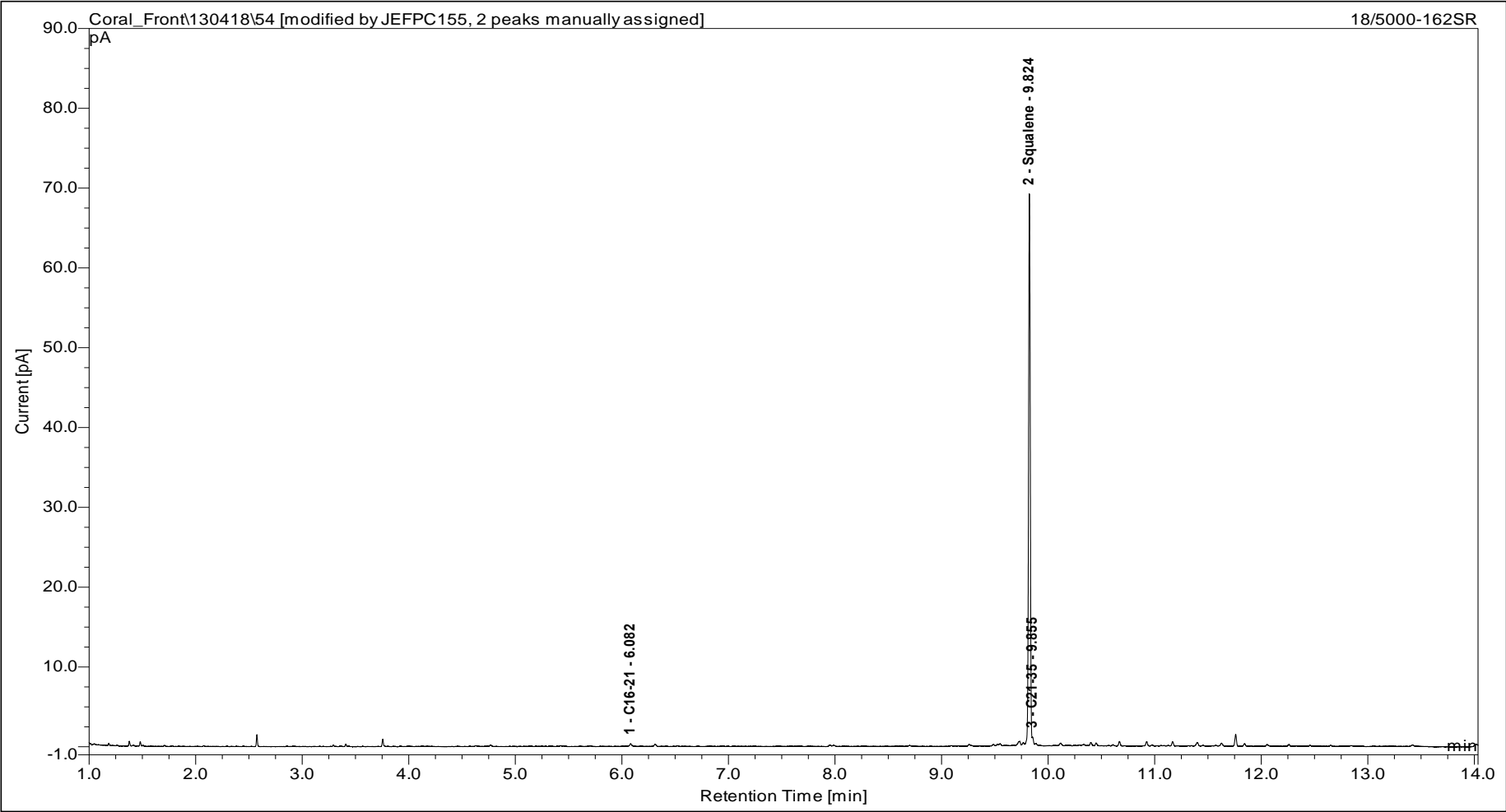
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 162
Sample Identity: 57629/TP#21-1
Depth:
Matrix: Solid



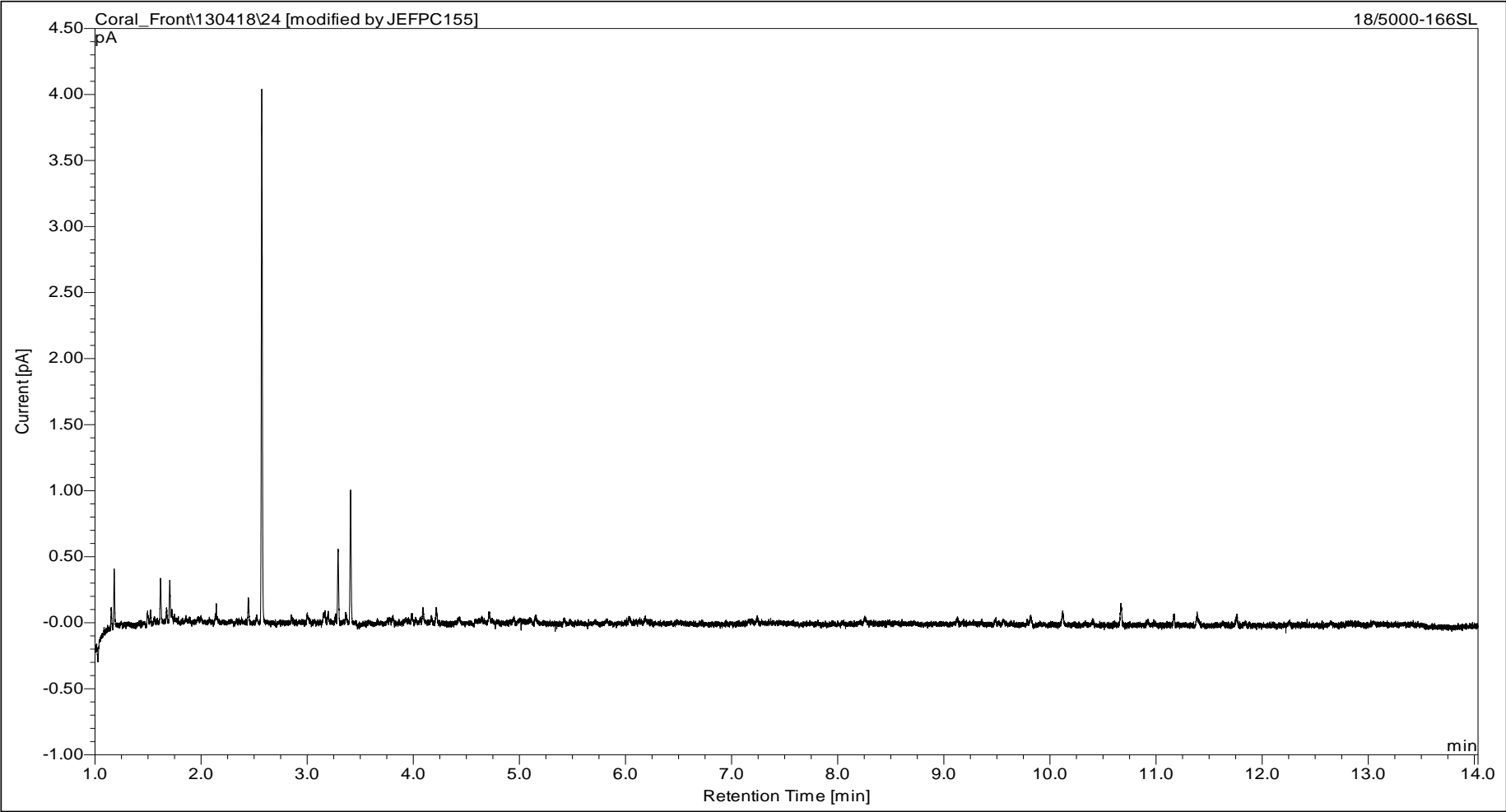
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 162
Sample Identity: 57629/TP#21-1
Depth:
Matrix: Solid



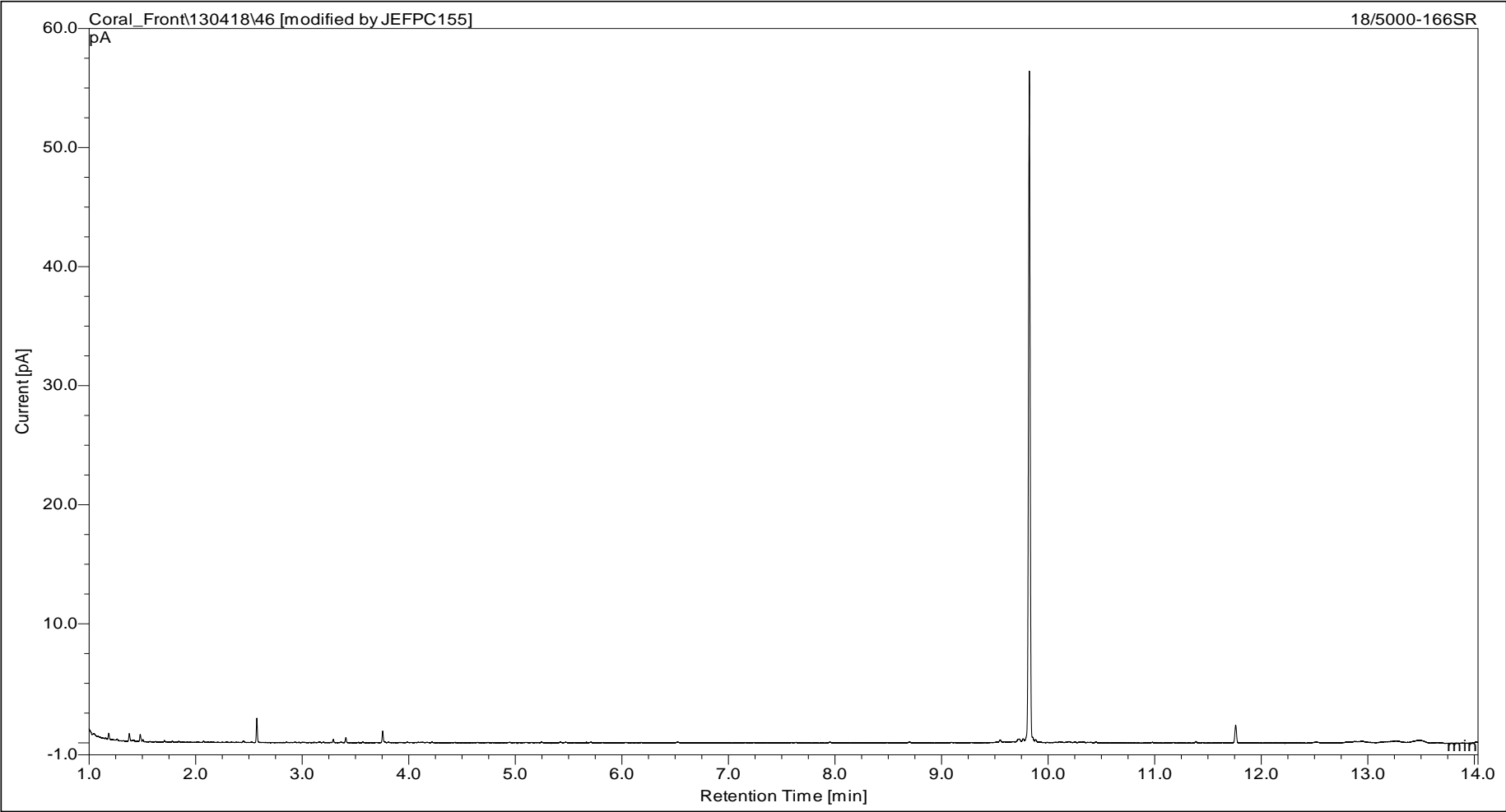
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 166
Sample Identity: 57629/TP#21-2
Depth:
Matrix: Solid



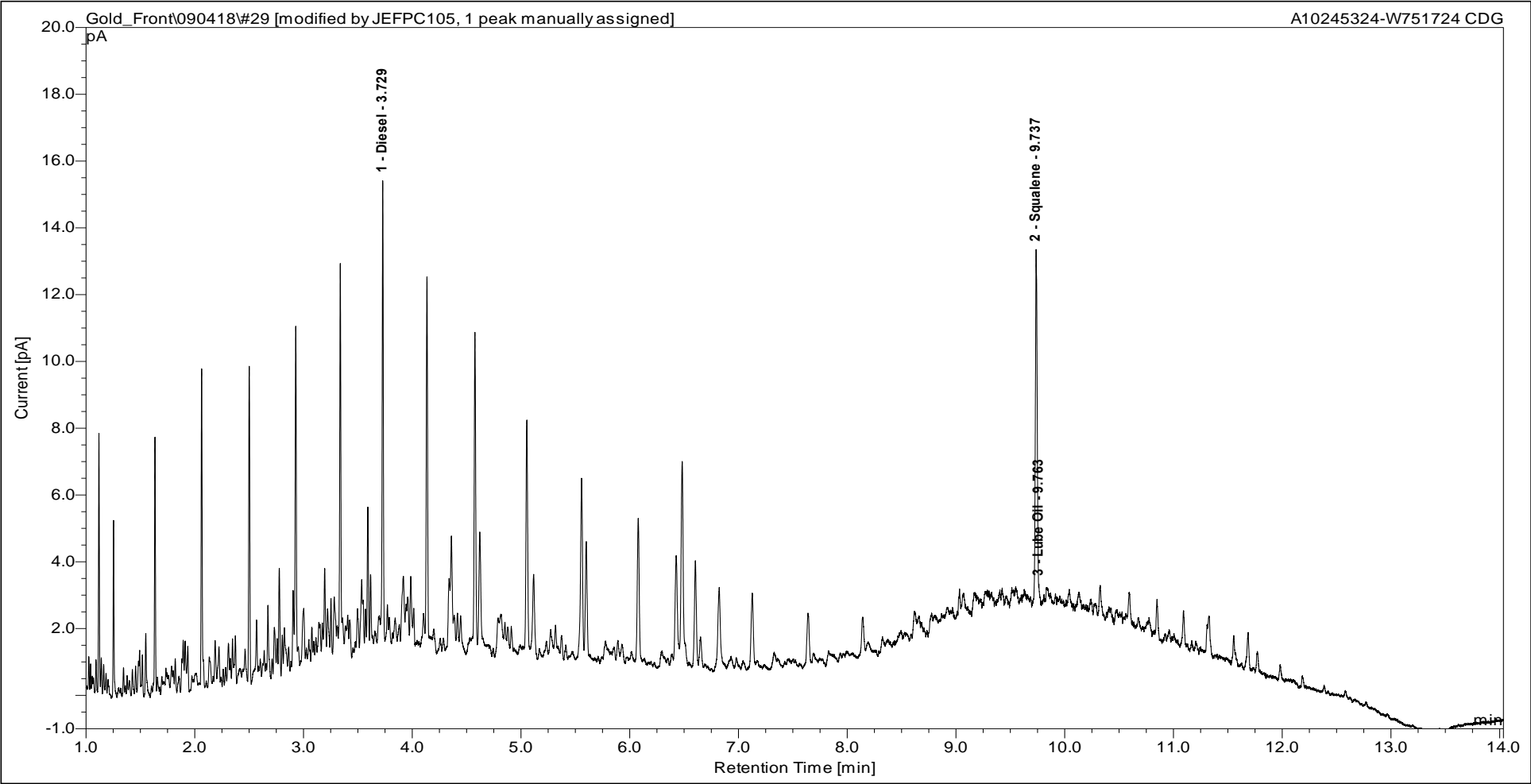
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 166
Sample Identity: 57629/TP#21-2
Depth:
Matrix: Solid



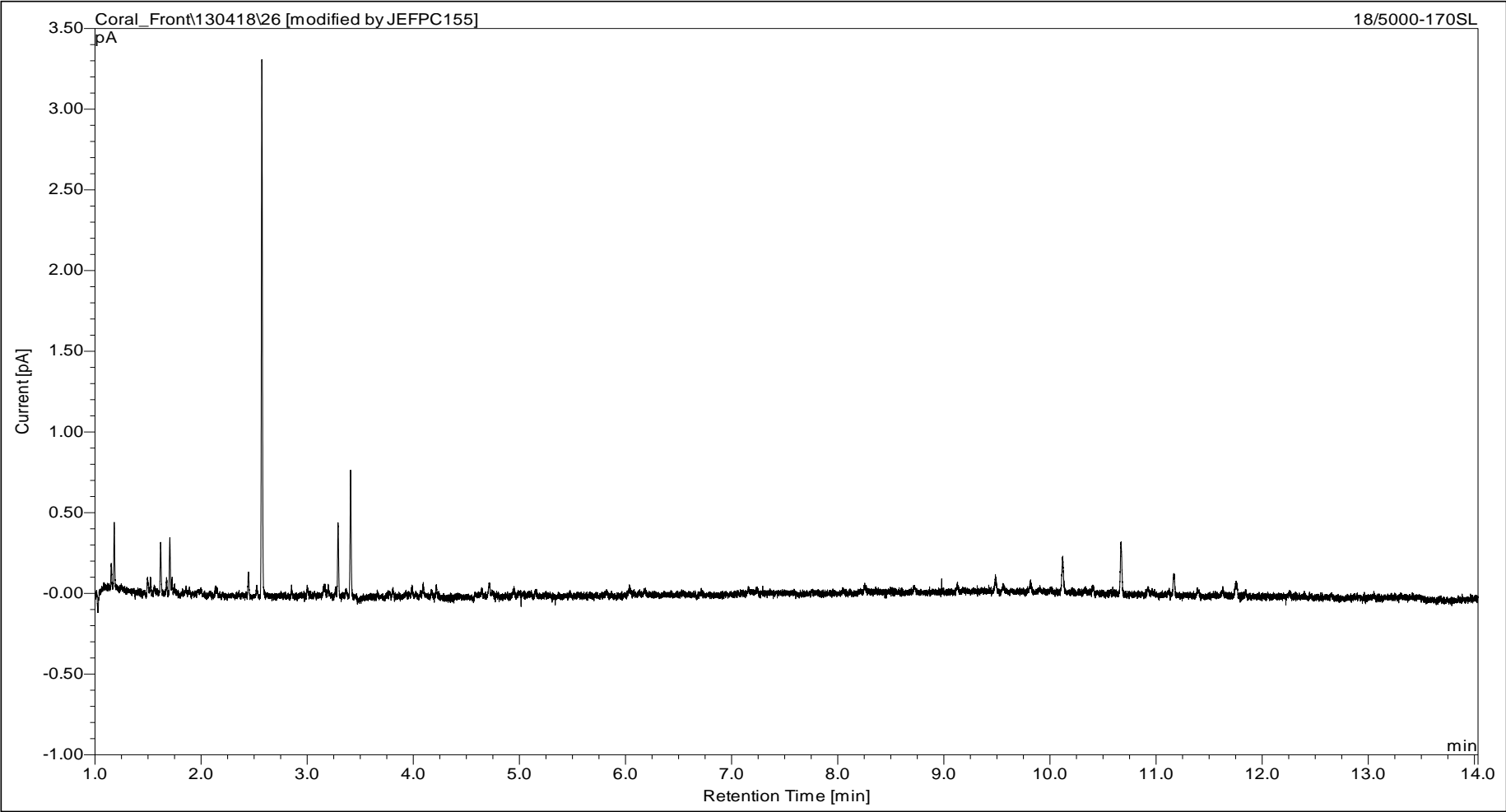
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 170
Sample Identity: 57629/TP#22-1
Depth:
Matrix: Solid



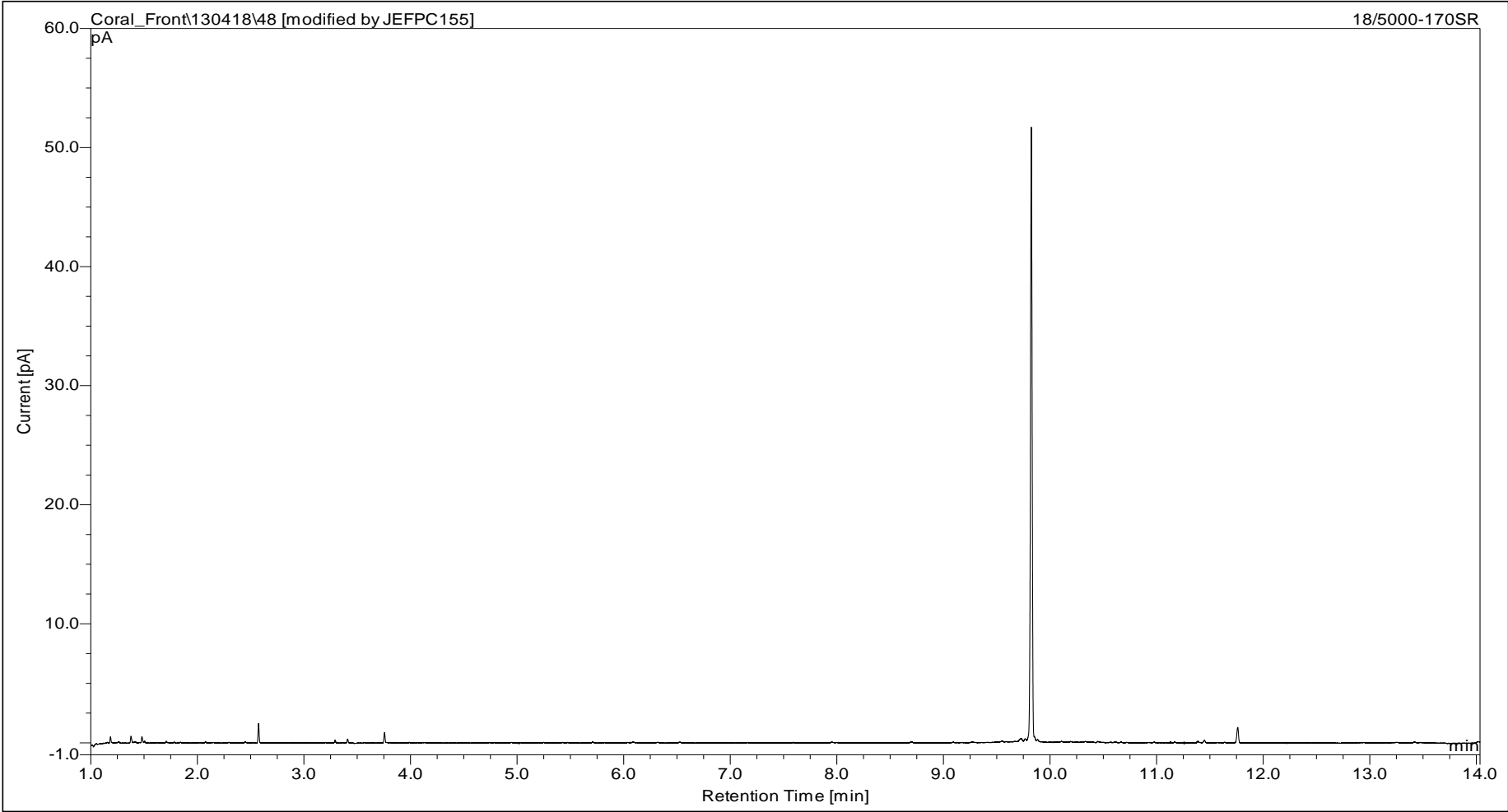
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 170
Sample Identity: 57629/TP#22-1
Depth:
Matrix: Solid



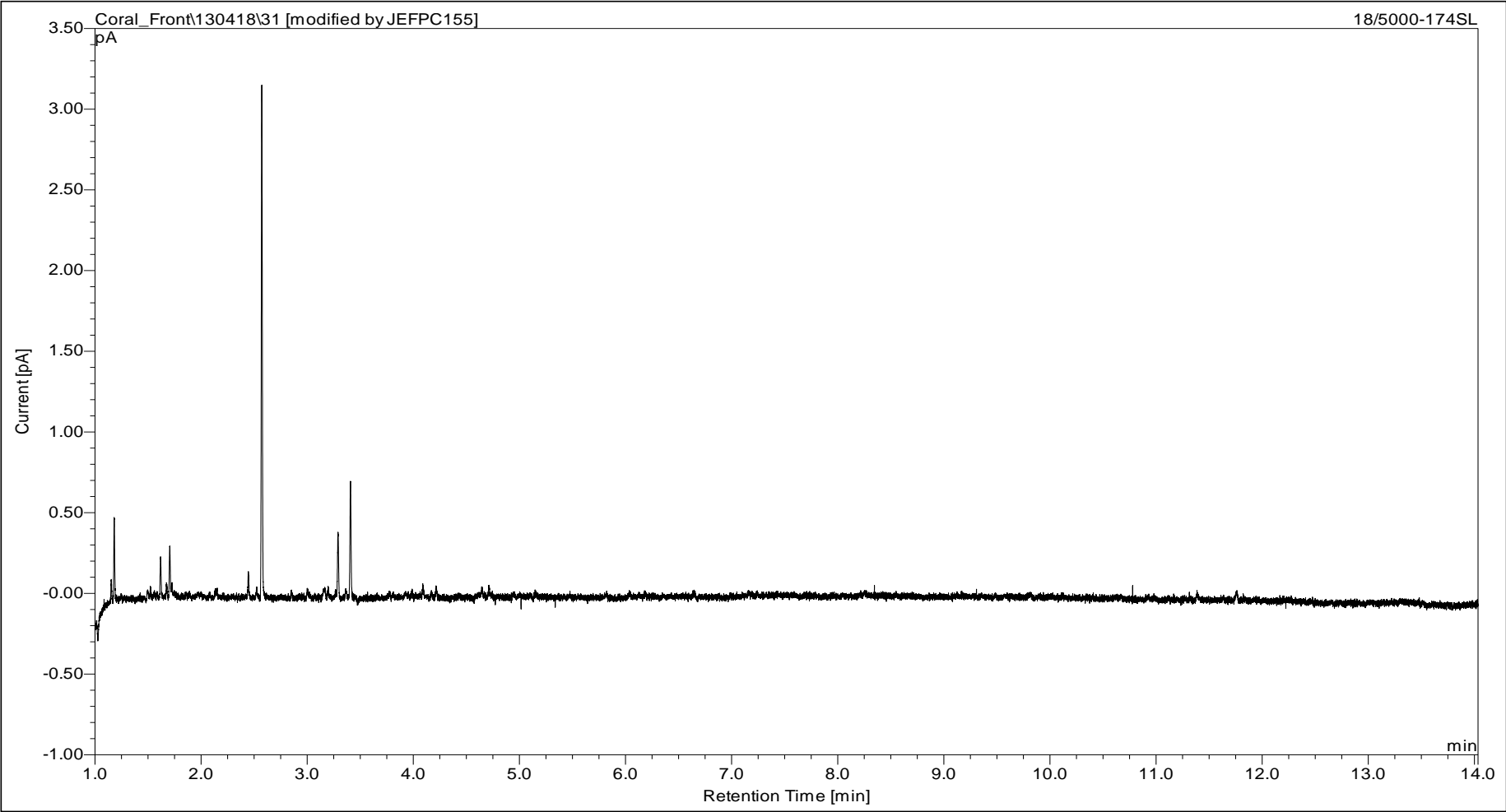
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 170
Sample Identity: 57629/TP#22-1
Depth:
Matrix: Solid



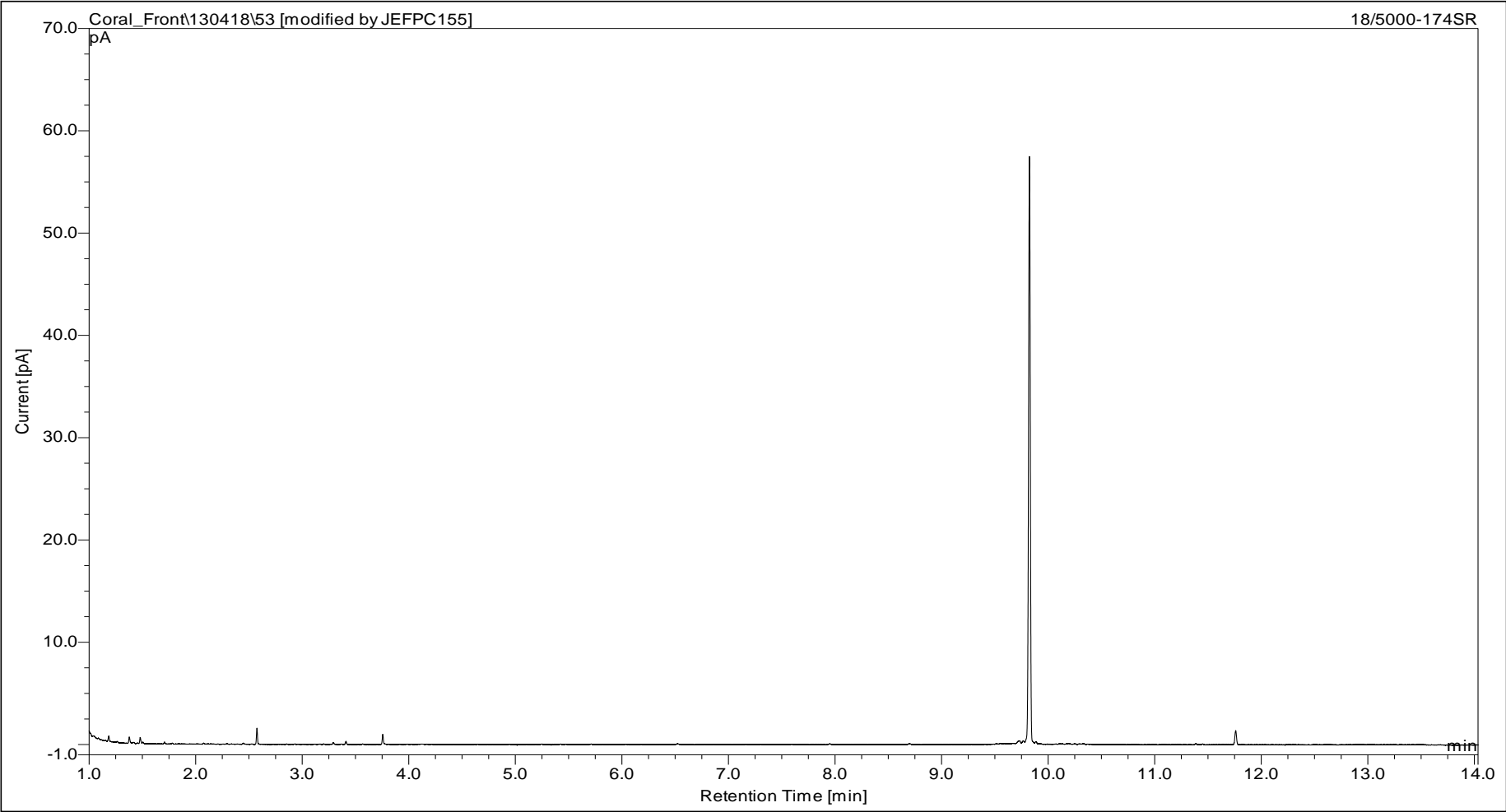
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 174
Sample Identity: 57629/TP#22-2
Depth:
Matrix: Solid



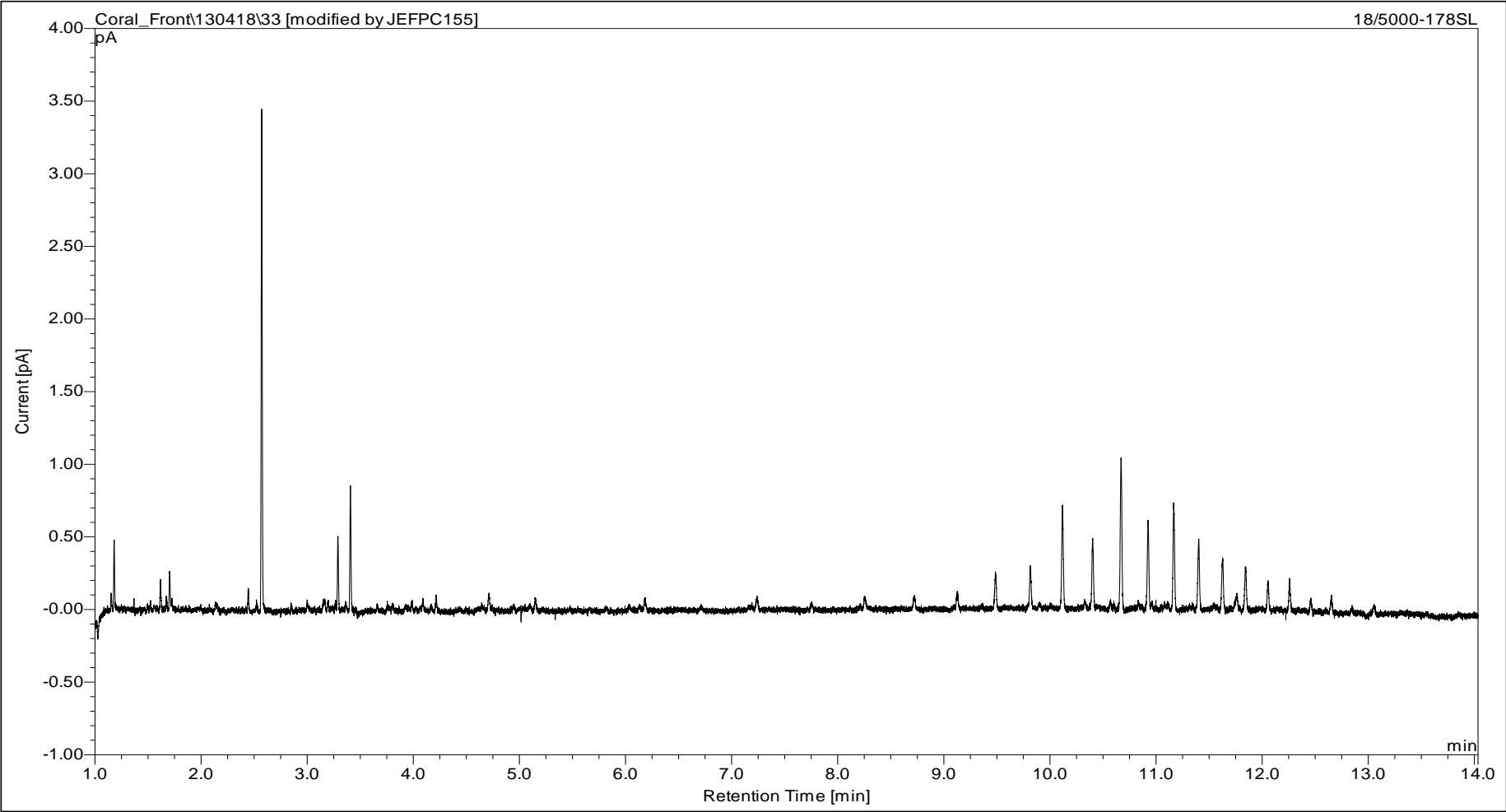
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 174
Sample Identity: 57629/TP#22-2
Depth:
Matrix: Solid



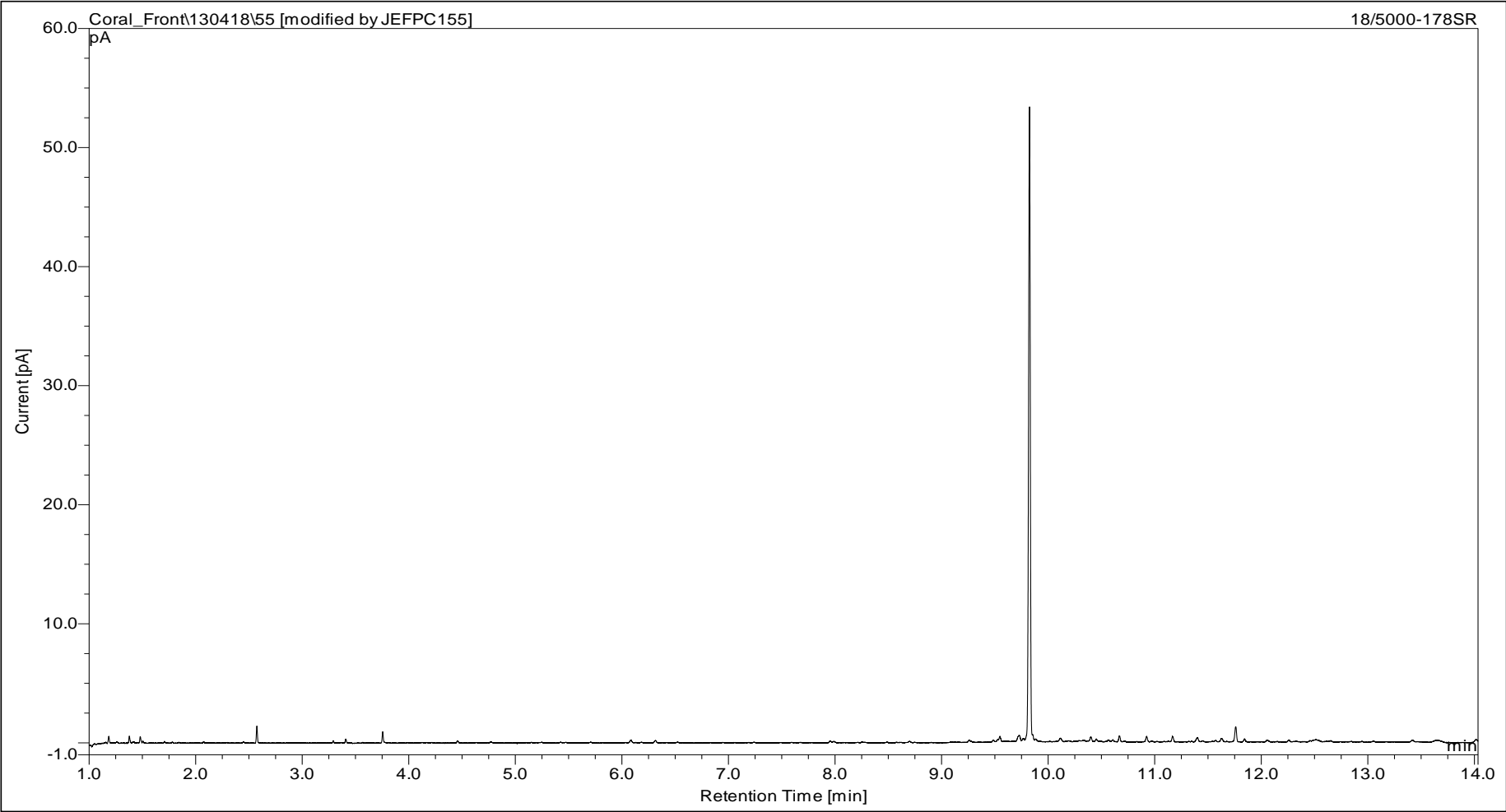
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 178
Sample Identity: 57629/TP#23-1
Depth:
Matrix: Solid



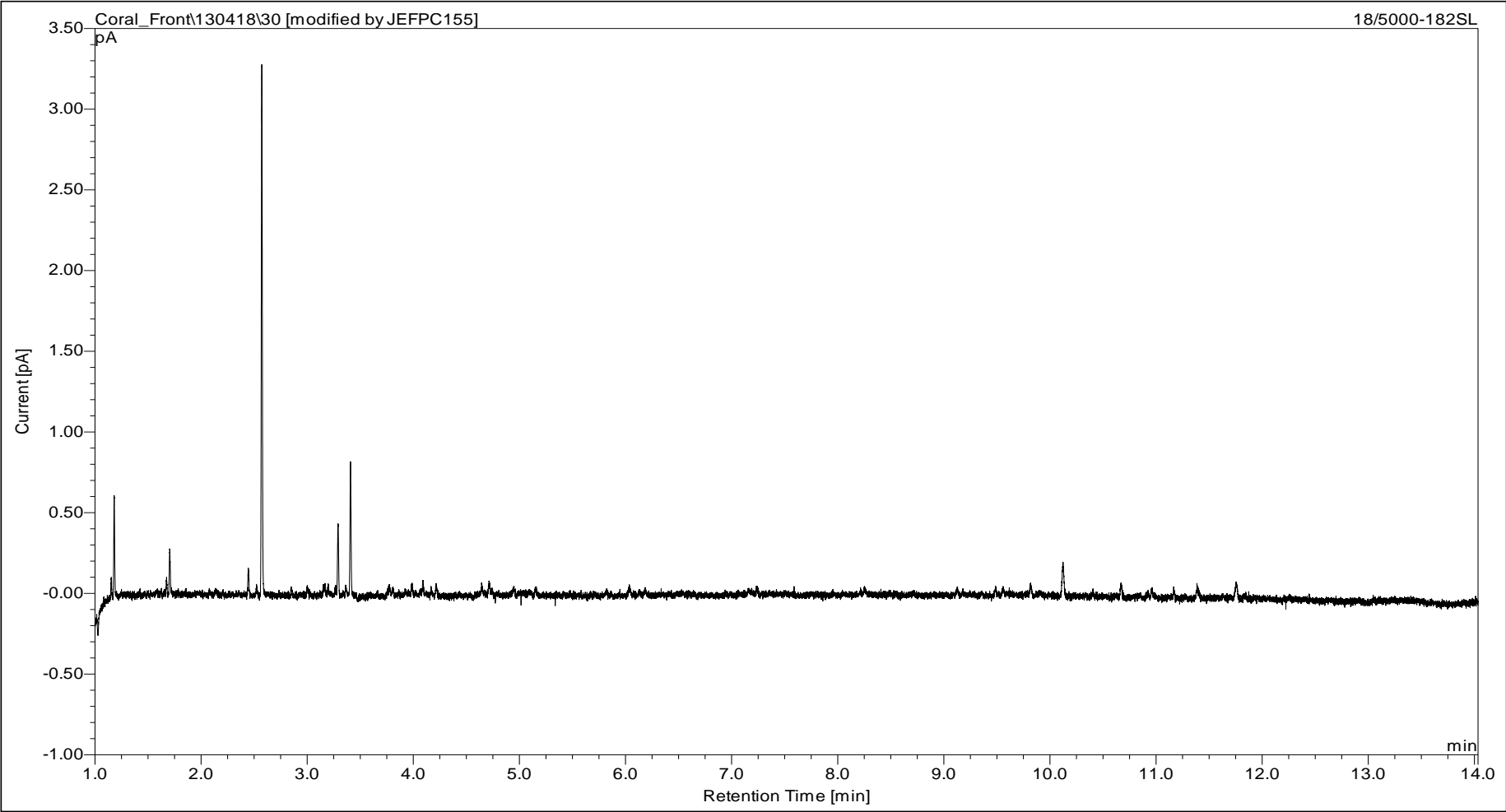
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 178
Sample Identity: 57629/TP#23-1
Depth:
Matrix: Solid



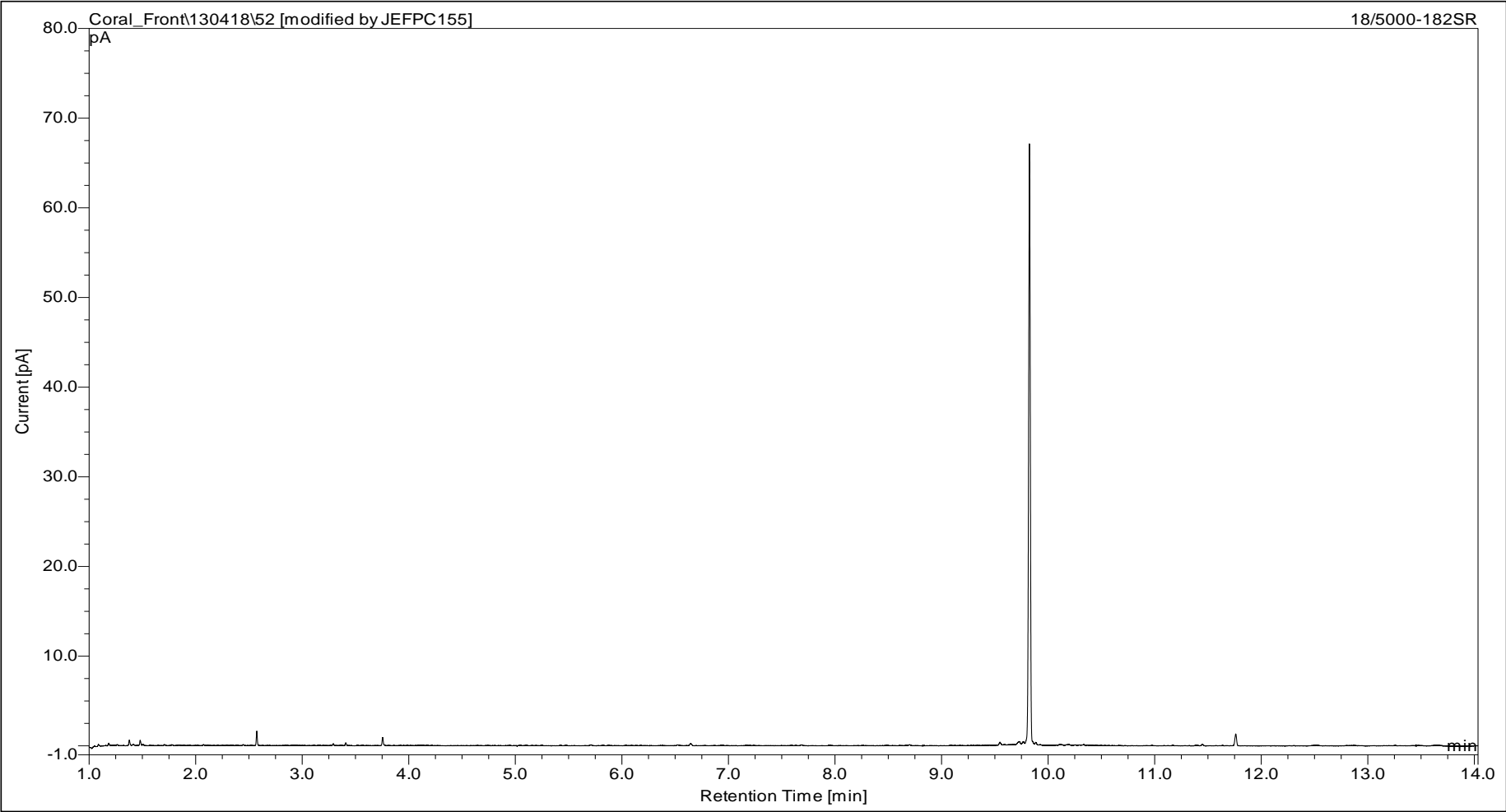
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 182
Sample Identity: 57629/TP#23-2
Depth:
Matrix: Solid



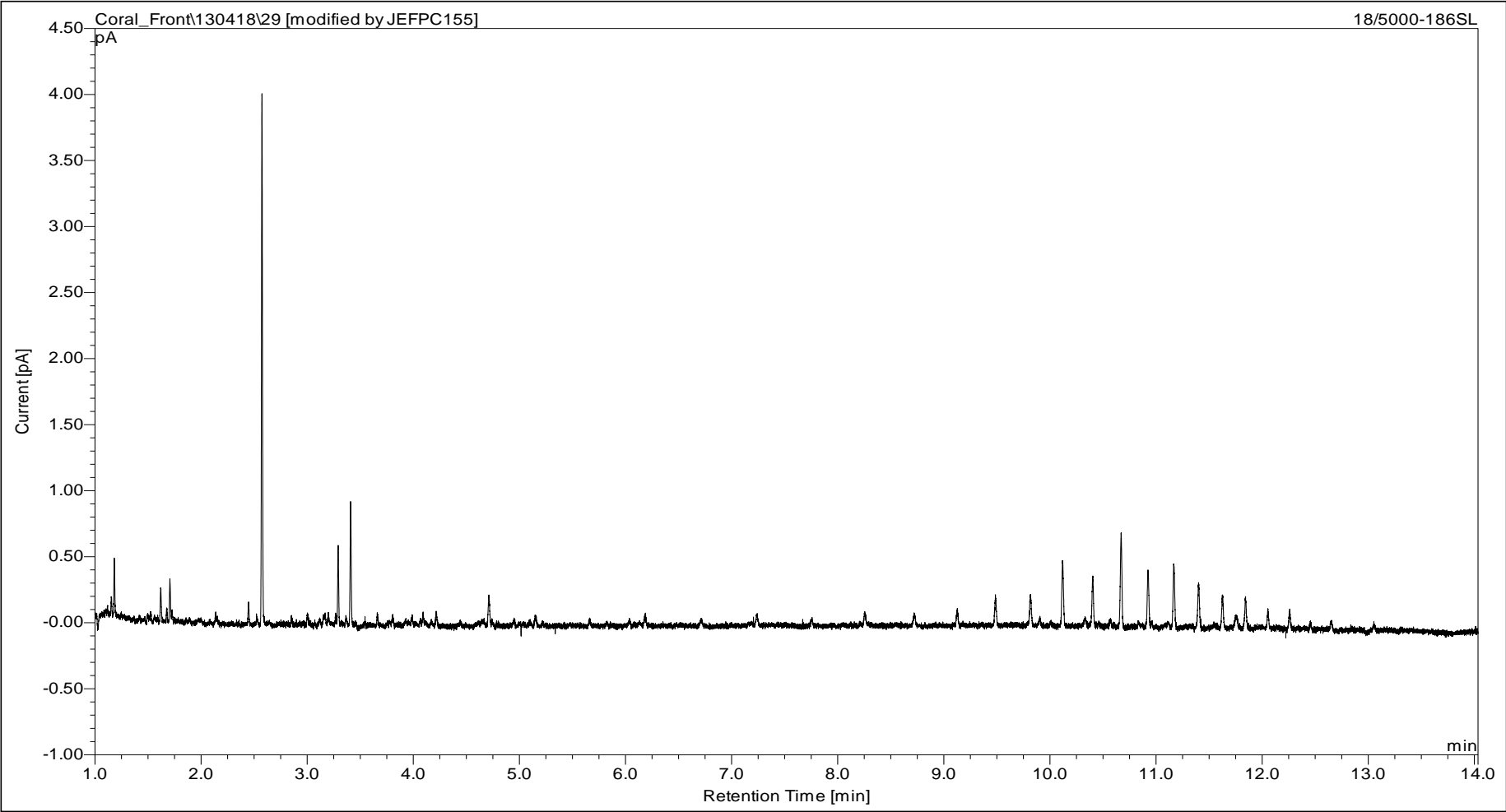
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 182
Sample Identity: 57629/TP#23-2
Depth:
Matrix: Solid



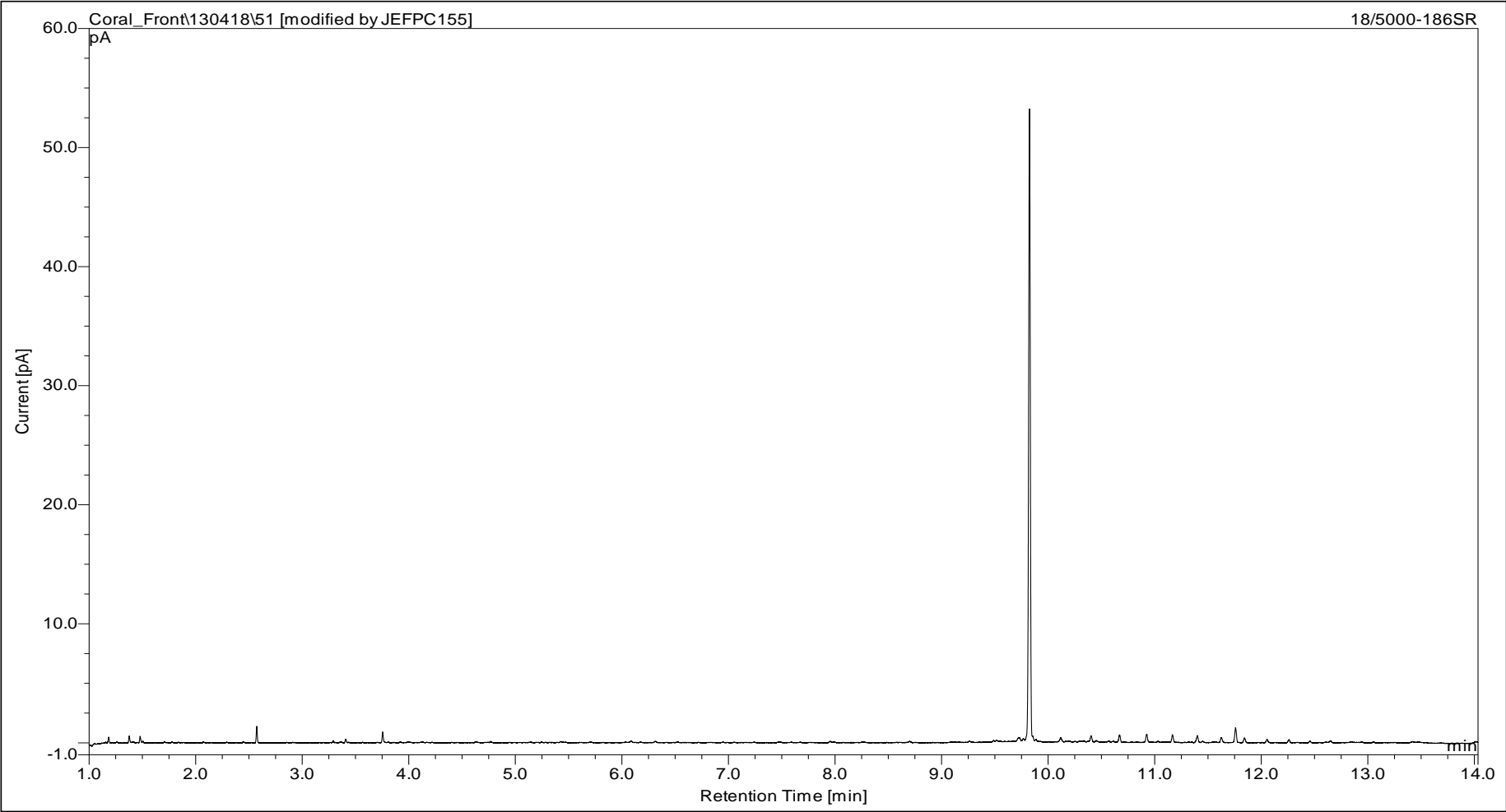
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 186
Sample Identity: 57629/TP#24-1
Depth:
Matrix: Solid



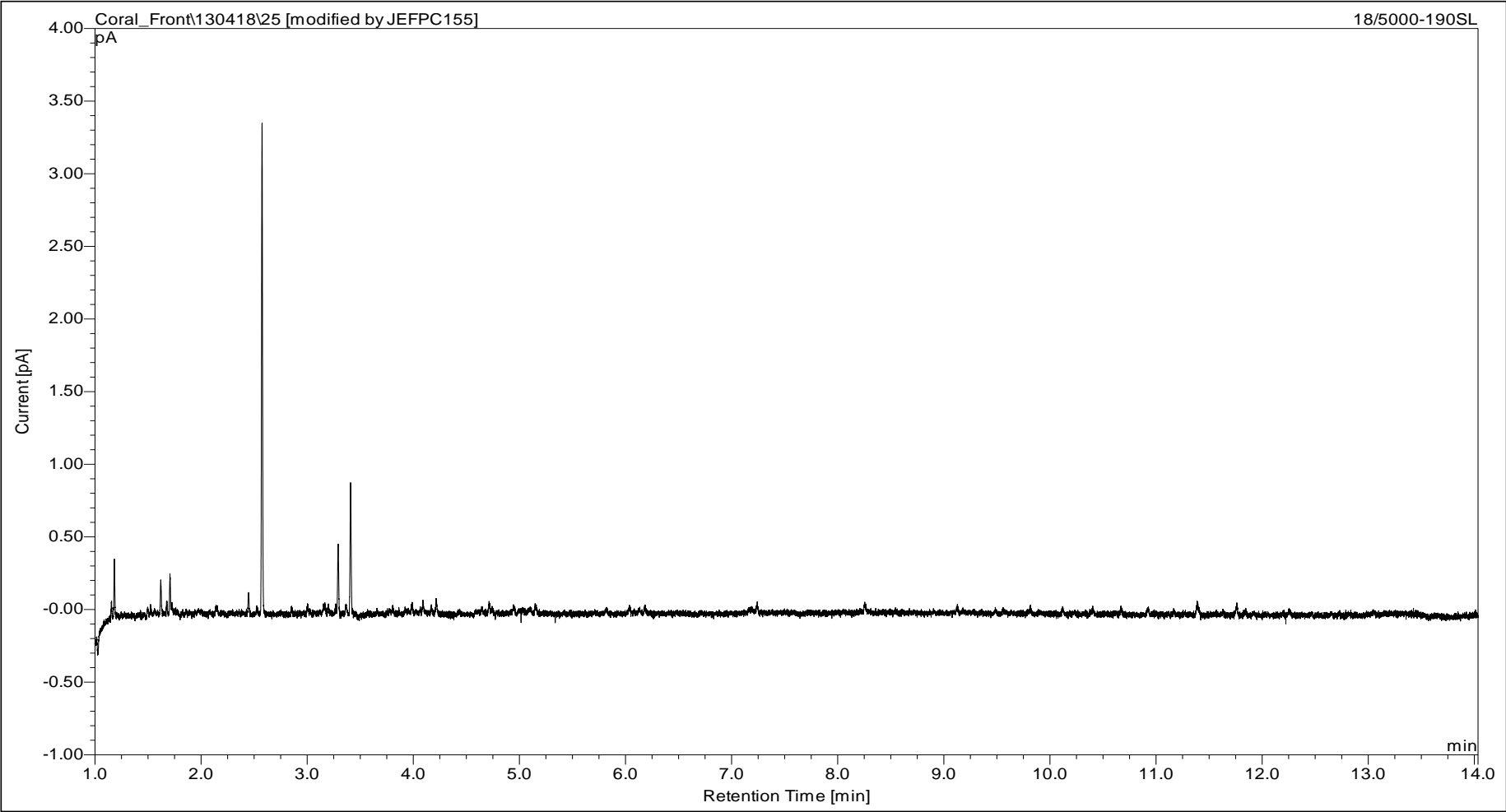
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 186
Sample Identity: 57629/TP#24-1
Depth:
Matrix: Solid



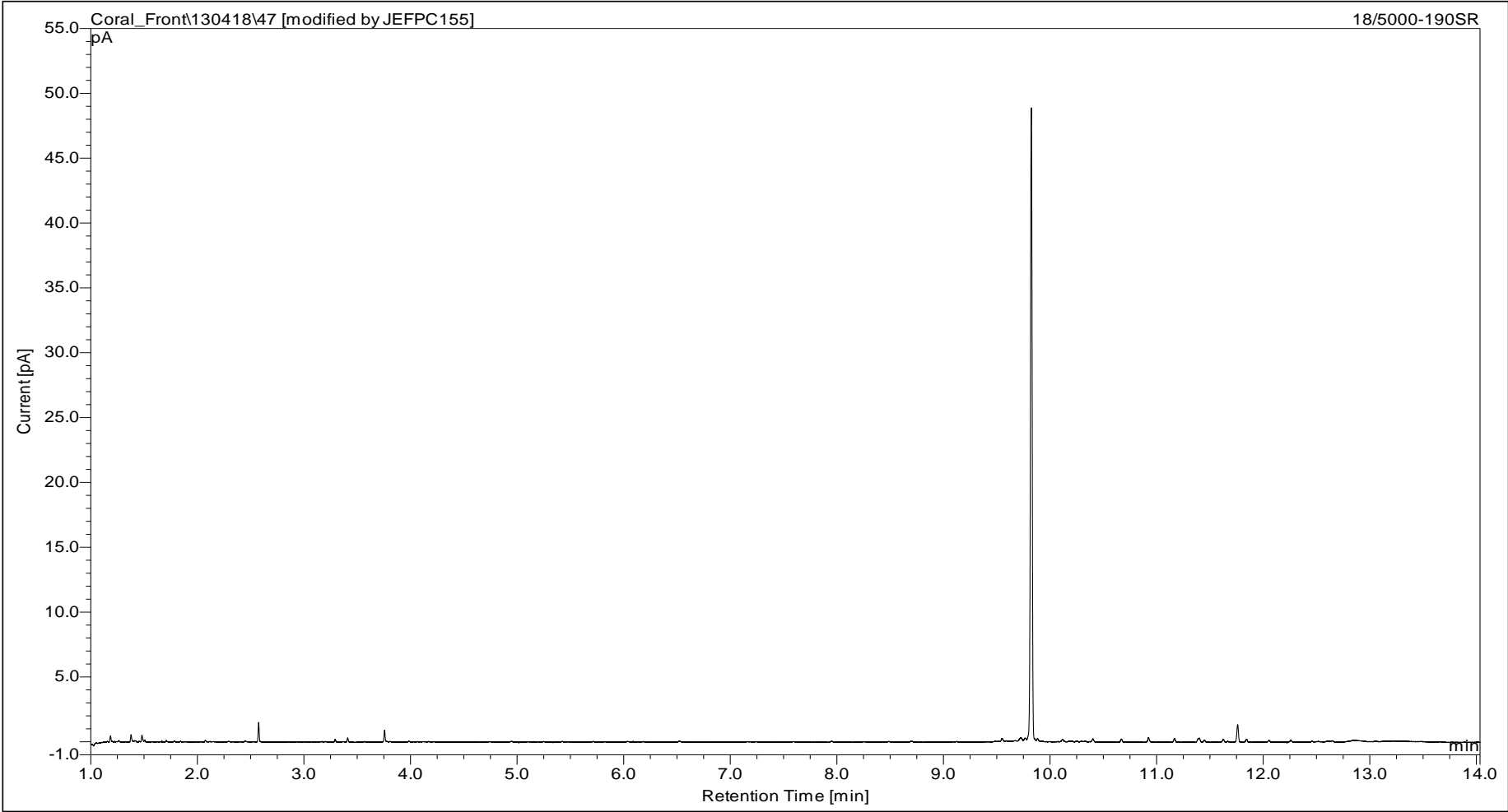
Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 190
Sample Identity: 57629/TP#24-2
Depth:
Matrix: Solid



Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

JE Job No.: 18/5000
JE Sample No.: 190
Sample Identity: 57629/TP#24-2
Depth:
Matrix: Solid



Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

Note:

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

Opinions, including ACM type and Asbestos level, lie outside the scope of our UKAS accreditation.

Where the sample is not taken by a Jones Environmental Laboratory consultant, Jones Environmental Laboratory cannot be responsible for inaccurate or unrepresentative sampling.

Signed on behalf of Jones Environmental Laboratory:

Ryan Butterworth
 Asbestos Team Leader

| J E Job No. | Batch | Sample ID | Depth | J E Sample No. | Date Of Analysis | Analysis | Result |
|-------------|-------|--------------|-------|----------------|------------------|--|-------------|
| 18/5000 | 1 | 57629/TP#1-1 | | 4 | 12/04/2018 | General Description (Bulk Analysis) | soil.stones |
| | | | | | 12/04/2018 | Asbestos Fibres | NAD |
| | | | | | 12/04/2018 | Asbestos Fibres (2) | NAD |
| | | | | | 12/04/2018 | Asbestos ACM | NAD |
| | | | | | 12/04/2018 | Asbestos ACM (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Type | NAD |
| | | | | | 12/04/2018 | Asbestos Type (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Level Screen | NAD |
| 18/5000 | 1 | 57629/TP#1-2 | | 8 | 12/04/2018 | General Description (Bulk Analysis) | Soil/Stone |
| | | | | | 12/04/2018 | Asbestos Fibres | NAD |
| | | | | | 12/04/2018 | Asbestos Fibres (2) | NAD |
| | | | | | 12/04/2018 | Asbestos ACM | NAD |
| | | | | | 12/04/2018 | Asbestos ACM (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Type | NAD |
| | | | | | 12/04/2018 | Asbestos Type (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Level Screen | NAD |
| 18/5000 | 1 | 57629/TP#2-1 | | 12 | 12/04/2018 | General Description (Bulk Analysis) | soil-stones |
| | | | | | 12/04/2018 | Asbestos Fibres | NAD |
| | | | | | 12/04/2018 | Asbestos Fibres (2) | NAD |
| | | | | | 12/04/2018 | Asbestos ACM | NAD |
| | | | | | 12/04/2018 | Asbestos ACM (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Type | NAD |
| | | | | | 12/04/2018 | Asbestos Type (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Level Screen | NAD |
| 18/5000 | 1 | 57629/TP#2-2 | | 16 | 12/04/2018 | General Description (Bulk Analysis) | Soil/Stone |
| | | | | | 12/04/2018 | Asbestos Fibres | NAD |
| | | | | | 12/04/2018 | Asbestos Fibres (2) | NAD |
| | | | | | 12/04/2018 | Asbestos ACM | NAD |
| | | | | | 12/04/2018 | Asbestos ACM (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Type | NAD |
| | | | | | 12/04/2018 | Asbestos Type (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Level Screen | NAD |
| 18/5000 | 1 | 57629/TP#3-1 | | 20 | 12/04/2018 | General Description (Bulk Analysis) | soil-stones |
| | | | | | 12/04/2018 | Asbestos Fibres | NAD |
| | | | | | 12/04/2018 | Asbestos Fibres (2) | NAD |

Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

| J E Job No. | Batch | Sample ID | Depth | J E Sample No. | Date Of Analysis | Analysis | Result |
|-------------|-------|--------------|-------|----------------|------------------|-------------------------------------|-------------|
| 18/5000 | 1 | 57629/TP#3-1 | | 20 | 12/04/2018 | Asbestos ACM | NAD |
| | | | | | 12/04/2018 | Asbestos ACM (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Type | NAD |
| | | | | | 12/04/2018 | Asbestos Type (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Level Screen | NAD |
| 18/5000 | 1 | 57629/TP#3-2 | | 24 | 12/04/2018 | General Description (Bulk Analysis) | Soil/Stones |
| | | | | | 12/04/2018 | Asbestos Fibres | NAD |
| | | | | | 12/04/2018 | Asbestos Fibres (2) | NAD |
| | | | | | 12/04/2018 | Asbestos ACM | NAD |
| | | | | | 12/04/2018 | Asbestos ACM (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Type | NAD |
| | | | | | 12/04/2018 | Asbestos Type (2) | NAD |
| 18/5000 | 1 | 57629/TP#4-1 | | 28 | 12/04/2018 | General Description (Bulk Analysis) | soil.stones |
| | | | | | 12/04/2018 | Asbestos Fibres | NAD |
| | | | | | 12/04/2018 | Asbestos Fibres (2) | NAD |
| | | | | | 12/04/2018 | Asbestos ACM | NAD |
| | | | | | 12/04/2018 | Asbestos ACM (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Type | NAD |
| | | | | | 12/04/2018 | Asbestos Type (2) | NAD |
| 18/5000 | 1 | 57629/TP#4-2 | | 32 | 12/04/2018 | General Description (Bulk Analysis) | soil.stones |
| | | | | | 12/04/2018 | Asbestos Fibres | NAD |
| | | | | | 12/04/2018 | Asbestos Fibres (2) | NAD |
| | | | | | 12/04/2018 | Asbestos ACM | NAD |
| | | | | | 12/04/2018 | Asbestos ACM (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Type | NAD |
| | | | | | 12/04/2018 | Asbestos Type (2) | NAD |
| 18/5000 | 1 | 57629/TP#5-1 | | 36 | 12/04/2018 | General Description (Bulk Analysis) | Soil/Stone |
| | | | | | 12/04/2018 | Asbestos Fibres | NAD |
| | | | | | 12/04/2018 | Asbestos Fibres (2) | NAD |
| | | | | | 12/04/2018 | Asbestos ACM | NAD |
| | | | | | 12/04/2018 | Asbestos ACM (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Type | NAD |
| | | | | | 12/04/2018 | Asbestos Type (2) | NAD |
| 18/5000 | 1 | 57629/TP#5-2 | | 40 | 12/04/2018 | General Description (Bulk Analysis) | Soil/Stone |
| | | | | | 12/04/2018 | Asbestos Fibres | NAD |
| | | | | | 12/04/2018 | Asbestos Fibres (2) | NAD |
| | | | | | 12/04/2018 | Asbestos ACM | NAD |
| | | | | | 12/04/2018 | Asbestos ACM (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Type | NAD |
| | | | | | 12/04/2018 | Asbestos Type (2) | NAD |
| 18/5000 | 1 | 57629/TP#6-1 | | 44 | 12/04/2018 | General Description (Bulk Analysis) | Soil/Stone |
| | | | | | 12/04/2018 | Asbestos Fibres | NAD |

Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

| J E Job No. | Batch | Sample ID | Depth | J E Sample No. | Date Of Analysis | Analysis | Result |
|-------------|-------|--------------|-------|----------------|------------------|-------------------------------------|-------------|
| 18/5000 | 1 | 57629/TP#6-1 | | 44 | 12/04/2018 | Asbestos Fibres (2) | NAD |
| | | | | | 12/04/2018 | Asbestos ACM | NAD |
| | | | | | 12/04/2018 | Asbestos ACM (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Type | NAD |
| | | | | | 12/04/2018 | Asbestos Type (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Level Screen | NAD |
| 18/5000 | 1 | 57629/TP#6-2 | | 48 | 12/04/2018 | General Description (Bulk Analysis) | soil-stones |
| | | | | | 12/04/2018 | Asbestos Fibres | NAD |
| | | | | | 12/04/2018 | Asbestos Fibres (2) | NAD |
| | | | | | 12/04/2018 | Asbestos ACM | NAD |
| | | | | | 12/04/2018 | Asbestos ACM (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Type | NAD |
| 18/5000 | 1 | 57629/TP#7-1 | | 52 | 12/04/2018 | General Description (Bulk Analysis) | Soil/Stones |
| | | | | | 12/04/2018 | Asbestos Fibres | NAD |
| | | | | | 12/04/2018 | Asbestos Fibres (2) | NAD |
| | | | | | 12/04/2018 | Asbestos ACM | NAD |
| | | | | | 12/04/2018 | Asbestos ACM (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Type | NAD |
| 18/5000 | 1 | 57629/TP#7-2 | | 56 | 12/04/2018 | General Description (Bulk Analysis) | Soil/Stones |
| | | | | | 12/04/2018 | Asbestos Fibres | NAD |
| | | | | | 12/04/2018 | Asbestos Fibres (2) | NAD |
| | | | | | 12/04/2018 | Asbestos ACM | NAD |
| | | | | | 12/04/2018 | Asbestos ACM (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Type | NAD |
| 18/5000 | 1 | 57629/TP#8-1 | | 60 | 12/04/2018 | General Description (Bulk Analysis) | Soil/Stone |
| | | | | | 12/04/2018 | Asbestos Fibres | NAD |
| | | | | | 12/04/2018 | Asbestos Fibres (2) | NAD |
| | | | | | 12/04/2018 | Asbestos ACM | NAD |
| | | | | | 12/04/2018 | Asbestos ACM (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Type | NAD |
| 18/5000 | 1 | 57629/TP#8-2 | | 64 | 12/04/2018 | General Description (Bulk Analysis) | Soil/Stone |
| | | | | | 12/04/2018 | Asbestos Fibres | NAD |
| | | | | | 12/04/2018 | Asbestos Fibres (2) | NAD |
| | | | | | 12/04/2018 | Asbestos ACM | NAD |
| | | | | | 12/04/2018 | Asbestos ACM (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Type | NAD |
| 18/5000 | 1 | 57629/TP#8-2 | | 64 | 12/04/2018 | Asbestos Type (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Level Screen | NAD |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

| J E Job No. | Batch | Sample ID | Depth | J E Sample No. | Date Of Analysis | Analysis | Result |
|-------------|-------|---------------|-------|----------------|------------------|-------------------------------------|-------------|
| 18/5000 | 1 | 57629/TP#9-1 | | 68 | 12/04/2018 | General Description (Bulk Analysis) | soil-stones |
| | | | | | 12/04/2018 | Asbestos Fibres | NAD |
| | | | | | 12/04/2018 | Asbestos Fibres (2) | NAD |
| | | | | | 12/04/2018 | Asbestos ACM | NAD |
| | | | | | 12/04/2018 | Asbestos ACM (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Type | NAD |
| | | | | | 12/04/2018 | Asbestos Type (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Level Screen | NAD |
| 18/5000 | 1 | 57629/TP#9-2 | | 72 | 12/04/2018 | General Description (Bulk Analysis) | soil.stones |
| | | | | | 12/04/2018 | Asbestos Fibres | NAD |
| | | | | | 12/04/2018 | Asbestos Fibres (2) | NAD |
| | | | | | 12/04/2018 | Asbestos ACM | NAD |
| | | | | | 12/04/2018 | Asbestos ACM (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Type | NAD |
| | | | | | 12/04/2018 | Asbestos Type (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Level Screen | NAD |
| 18/5000 | 1 | 57629/TP#10-1 | | 76 | 12/04/2018 | General Description (Bulk Analysis) | Soil/Stones |
| | | | | | 12/04/2018 | Asbestos Fibres | NAD |
| | | | | | 12/04/2018 | Asbestos Fibres (2) | NAD |
| | | | | | 12/04/2018 | Asbestos ACM | NAD |
| | | | | | 12/04/2018 | Asbestos ACM (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Type | NAD |
| | | | | | 12/04/2018 | Asbestos Type (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Level Screen | NAD |
| 18/5000 | 1 | 57629/TP#10-2 | | 80 | 12/04/2018 | General Description (Bulk Analysis) | Soil/Stone |
| | | | | | 12/04/2018 | Asbestos Fibres | NAD |
| | | | | | 12/04/2018 | Asbestos Fibres (2) | NAD |
| | | | | | 12/04/2018 | Asbestos ACM | NAD |
| | | | | | 12/04/2018 | Asbestos ACM (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Type | NAD |
| | | | | | 12/04/2018 | Asbestos Type (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Level Screen | NAD |
| 18/5000 | 1 | 57629/TP#11-1 | | 84 | 12/04/2018 | General Description (Bulk Analysis) | soil.stones |
| | | | | | 12/04/2018 | Asbestos Fibres | NAD |
| | | | | | 12/04/2018 | Asbestos Fibres (2) | NAD |
| | | | | | 12/04/2018 | Asbestos ACM | NAD |
| | | | | | 12/04/2018 | Asbestos ACM (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Type | NAD |
| | | | | | 12/04/2018 | Asbestos Type (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Level Screen | NAD |
| 18/5000 | 1 | 57629/TP#11-2 | | 88 | 12/04/2018 | General Description (Bulk Analysis) | Soil/Stones |
| | | | | | 12/04/2018 | Asbestos Fibres | NAD |
| | | | | | 12/04/2018 | Asbestos Fibres (2) | NAD |
| | | | | | 12/04/2018 | Asbestos ACM | NAD |
| | | | | | 12/04/2018 | Asbestos ACM (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Type | NAD |
| | | | | | 12/04/2018 | Asbestos Type (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Level Screen | NAD |

Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

| J E Job No. | Batch | Sample ID | Depth | J E Sample No. | Date Of Analysis | Analysis | Result |
|-------------|-------|---------------|-------|----------------|------------------|-------------------------------------|-------------|
| 18/5000 | 1 | 57629/TP#12-1 | | 92 | 12/04/2018 | General Description (Bulk Analysis) | Soil/Stone |
| | | | | | 12/04/2018 | Asbestos Fibres | NAD |
| | | | | | 12/04/2018 | Asbestos Fibres (2) | NAD |
| | | | | | 12/04/2018 | Asbestos ACM | NAD |
| | | | | | 12/04/2018 | Asbestos ACM (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Type | NAD |
| | | | | | 12/04/2018 | Asbestos Type (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Level Screen | NAD |
| 18/5000 | 1 | 57629/TP#12-2 | | 96 | 12/04/2018 | General Description (Bulk Analysis) | soil-stones |
| | | | | | 12/04/2018 | Asbestos Fibres | NAD |
| | | | | | 12/04/2018 | Asbestos Fibres (2) | NAD |
| | | | | | 12/04/2018 | Asbestos ACM | NAD |
| | | | | | 12/04/2018 | Asbestos ACM (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Type | NAD |
| | | | | | 12/04/2018 | Asbestos Type (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Level Screen | NAD |
| 18/5000 | 1 | 57629/TP#13-1 | | 100 | 12/04/2018 | General Description (Bulk Analysis) | soil-stones |
| | | | | | 12/04/2018 | Asbestos Fibres | NAD |
| | | | | | 12/04/2018 | Asbestos Fibres (2) | NAD |
| | | | | | 12/04/2018 | Asbestos ACM | NAD |
| | | | | | 12/04/2018 | Asbestos ACM (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Type | NAD |
| | | | | | 12/04/2018 | Asbestos Type (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Level Screen | NAD |
| 18/5000 | 1 | 57629/TP#13-2 | | 104 | 12/04/2018 | General Description (Bulk Analysis) | soil-stones |
| | | | | | 12/04/2018 | Asbestos Fibres | NAD |
| | | | | | 12/04/2018 | Asbestos Fibres (2) | NAD |
| | | | | | 12/04/2018 | Asbestos ACM | NAD |
| | | | | | 12/04/2018 | Asbestos ACM (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Type | NAD |
| | | | | | 12/04/2018 | Asbestos Type (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Level Screen | NAD |
| 18/5000 | 1 | 57629/TP#14-1 | | 108 | 12/04/2018 | General Description (Bulk Analysis) | soil-stones |
| | | | | | 12/04/2018 | Asbestos Fibres | NAD |
| | | | | | 12/04/2018 | Asbestos Fibres (2) | NAD |
| | | | | | 12/04/2018 | Asbestos ACM | NAD |
| | | | | | 12/04/2018 | Asbestos ACM (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Type | NAD |
| | | | | | 12/04/2018 | Asbestos Type (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Level Screen | NAD |
| 18/5000 | 1 | 57629/TP#14-2 | | 112 | 12/04/2018 | General Description (Bulk Analysis) | Soil/Stone |
| | | | | | 12/04/2018 | Asbestos Fibres | NAD |
| | | | | | 12/04/2018 | Asbestos Fibres (2) | NAD |
| | | | | | 12/04/2018 | Asbestos ACM | NAD |
| | | | | | 12/04/2018 | Asbestos ACM (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Type | NAD |
| | | | | | 12/04/2018 | Asbestos Type (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Level Screen | NAD |

Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

| J E Job No. | Batch | Sample ID | Depth | J E Sample No. | Date Of Analysis | Analysis | Result |
|-------------|-------|---------------|-------|----------------|------------------|-------------------------------------|-------------|
| 18/5000 | 1 | 57629/TP#15-1 | | 116 | 12/04/2018 | General Description (Bulk Analysis) | soil.stones |
| | | | | | 12/04/2018 | Asbestos Fibres | NAD |
| | | | | | 12/04/2018 | Asbestos Fibres (2) | NAD |
| | | | | | 12/04/2018 | Asbestos ACM | NAD |
| | | | | | 12/04/2018 | Asbestos ACM (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Type | NAD |
| | | | | | 12/04/2018 | Asbestos Type (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Level Screen | NAD |
| 18/5000 | 1 | 57629/TP#15-2 | | 120 | 12/04/2018 | General Description (Bulk Analysis) | soil.stones |
| | | | | | 12/04/2018 | Asbestos Fibres | NAD |
| | | | | | 12/04/2018 | Asbestos Fibres (2) | NAD |
| | | | | | 12/04/2018 | Asbestos ACM | NAD |
| | | | | | 12/04/2018 | Asbestos ACM (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Type | NAD |
| | | | | | 12/04/2018 | Asbestos Type (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Level Screen | NAD |
| 18/5000 | 1 | 57629/TP#16-1 | | 124 | 12/04/2018 | General Description (Bulk Analysis) | soil.stones |
| | | | | | 12/04/2018 | Asbestos Fibres | NAD |
| | | | | | 12/04/2018 | Asbestos Fibres (2) | NAD |
| | | | | | 12/04/2018 | Asbestos ACM | NAD |
| | | | | | 12/04/2018 | Asbestos ACM (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Type | NAD |
| | | | | | 12/04/2018 | Asbestos Type (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Level Screen | NAD |
| 18/5000 | 1 | 57629/TP#16-2 | | 128 | 12/04/2018 | General Description (Bulk Analysis) | Soil/Stones |
| | | | | | 12/04/2018 | Asbestos Fibres | NAD |
| | | | | | 12/04/2018 | Asbestos Fibres (2) | NAD |
| | | | | | 12/04/2018 | Asbestos ACM | NAD |
| | | | | | 12/04/2018 | Asbestos ACM (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Type | NAD |
| | | | | | 12/04/2018 | Asbestos Type (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Level Screen | NAD |
| 18/5000 | 1 | 57629/TP#17-1 | | 132 | 12/04/2018 | General Description (Bulk Analysis) | soil-stones |
| | | | | | 12/04/2018 | Asbestos Fibres | NAD |
| | | | | | 12/04/2018 | Asbestos Fibres (2) | NAD |
| | | | | | 12/04/2018 | Asbestos ACM | NAD |
| | | | | | 12/04/2018 | Asbestos ACM (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Type | NAD |
| | | | | | 12/04/2018 | Asbestos Type (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Level Screen | NAD |
| 18/5000 | 1 | 57629/TP#17-2 | | 136 | 12/04/2018 | General Description (Bulk Analysis) | soil-stones |
| | | | | | 12/04/2018 | Asbestos Fibres | NAD |
| | | | | | 12/04/2018 | Asbestos Fibres (2) | NAD |
| | | | | | 12/04/2018 | Asbestos ACM | NAD |
| | | | | | 12/04/2018 | Asbestos ACM (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Type | NAD |
| | | | | | 12/04/2018 | Asbestos Type (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Level Screen | NAD |

Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

| J E Job No. | Batch | Sample ID | Depth | J E Sample No. | Date Of Analysis | Analysis | Result |
|-------------|-------|---------------|-------|----------------|------------------|-------------------------------------|-------------|
| 18/5000 | 1 | 57629/TP#18-1 | | 140 | 12/04/2018 | General Description (Bulk Analysis) | Soil/Stone |
| | | | | | 12/04/2018 | Asbestos Fibres | NAD |
| | | | | | 12/04/2018 | Asbestos Fibres (2) | NAD |
| | | | | | 12/04/2018 | Asbestos ACM | NAD |
| | | | | | 12/04/2018 | Asbestos ACM (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Type | NAD |
| | | | | | 12/04/2018 | Asbestos Type (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Level Screen | NAD |
| 18/5000 | 1 | 57629/TP#18-2 | | 144 | 12/04/2018 | General Description (Bulk Analysis) | soil-stones |
| | | | | | 12/04/2018 | Asbestos Fibres | NAD |
| | | | | | 12/04/2018 | Asbestos Fibres (2) | NAD |
| | | | | | 12/04/2018 | Asbestos ACM | NAD |
| | | | | | 12/04/2018 | Asbestos ACM (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Type | NAD |
| | | | | | 12/04/2018 | Asbestos Type (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Level Screen | NAD |
| 18/5000 | 1 | 57629/TP#19-1 | | 148 | 12/04/2018 | General Description (Bulk Analysis) | Soil/Stones |
| | | | | | 12/04/2018 | Asbestos Fibres | NAD |
| | | | | | 12/04/2018 | Asbestos Fibres (2) | NAD |
| | | | | | 12/04/2018 | Asbestos ACM | NAD |
| | | | | | 12/04/2018 | Asbestos ACM (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Type | NAD |
| | | | | | 12/04/2018 | Asbestos Type (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Level Screen | NAD |
| 18/5000 | 1 | 57629/TP#19-2 | | 152 | 12/04/2018 | General Description (Bulk Analysis) | soil.stones |
| | | | | | 12/04/2018 | Asbestos Fibres | NAD |
| | | | | | 12/04/2018 | Asbestos Fibres (2) | NAD |
| | | | | | 12/04/2018 | Asbestos ACM | NAD |
| | | | | | 12/04/2018 | Asbestos ACM (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Type | NAD |
| | | | | | 12/04/2018 | Asbestos Type (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Level Screen | NAD |
| 18/5000 | 1 | 57629/TP#20-1 | | 156 | 12/04/2018 | General Description (Bulk Analysis) | soil-stones |
| | | | | | 12/04/2018 | Asbestos Fibres | NAD |
| | | | | | 12/04/2018 | Asbestos Fibres (2) | NAD |
| | | | | | 12/04/2018 | Asbestos ACM | NAD |
| | | | | | 12/04/2018 | Asbestos ACM (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Type | NAD |
| | | | | | 12/04/2018 | Asbestos Type (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Level Screen | NAD |
| 18/5000 | 1 | 57629/TP#20-2 | | 160 | 12/04/2018 | General Description (Bulk Analysis) | Soil/Stone |
| | | | | | 12/04/2018 | Asbestos Fibres | NAD |
| | | | | | 12/04/2018 | Asbestos Fibres (2) | NAD |
| | | | | | 12/04/2018 | Asbestos ACM | NAD |
| | | | | | 12/04/2018 | Asbestos ACM (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Type | NAD |
| | | | | | 12/04/2018 | Asbestos Type (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Level Screen | NAD |

Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

| J E Job No. | Batch | Sample ID | Depth | J E Sample No. | Date Of Analysis | Analysis | Result |
|-------------|-------|---------------|-------|----------------|------------------|-------------------------------------|-------------|
| 18/5000 | 1 | 57629/TP#21-1 | | 164 | 12/04/2018 | General Description (Bulk Analysis) | soil.stones |
| | | | | | 12/04/2018 | Asbestos Fibres | NAD |
| | | | | | 12/04/2018 | Asbestos Fibres (2) | NAD |
| | | | | | 12/04/2018 | Asbestos ACM | NAD |
| | | | | | 12/04/2018 | Asbestos ACM (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Type | NAD |
| | | | | | 12/04/2018 | Asbestos Type (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Level Screen | NAD |
| 18/5000 | 1 | 57629/TP#21-2 | | 168 | 12/04/2018 | General Description (Bulk Analysis) | soil.stones |
| | | | | | 12/04/2018 | Asbestos Fibres | NAD |
| | | | | | 12/04/2018 | Asbestos Fibres (2) | NAD |
| | | | | | 12/04/2018 | Asbestos ACM | NAD |
| | | | | | 12/04/2018 | Asbestos ACM (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Type | NAD |
| | | | | | 12/04/2018 | Asbestos Type (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Level Screen | NAD |
| 18/5000 | 1 | 57629/TP#22-1 | | 172 | 12/04/2018 | General Description (Bulk Analysis) | Soil/Stones |
| | | | | | 12/04/2018 | Asbestos Fibres | NAD |
| | | | | | 12/04/2018 | Asbestos Fibres (2) | NAD |
| | | | | | 12/04/2018 | Asbestos ACM | NAD |
| | | | | | 12/04/2018 | Asbestos ACM (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Type | NAD |
| | | | | | 12/04/2018 | Asbestos Type (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Level Screen | NAD |
| 18/5000 | 1 | 57629/TP#22-2 | | 176 | 12/04/2018 | General Description (Bulk Analysis) | Soil/Stone |
| | | | | | 12/04/2018 | Asbestos Fibres | NAD |
| | | | | | 12/04/2018 | Asbestos Fibres (2) | NAD |
| | | | | | 12/04/2018 | Asbestos ACM | NAD |
| | | | | | 12/04/2018 | Asbestos ACM (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Type | NAD |
| | | | | | 12/04/2018 | Asbestos Type (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Level Screen | NAD |
| 18/5000 | 1 | 57629/TP#23-1 | | 180 | 12/04/2018 | General Description (Bulk Analysis) | soil.stones |
| | | | | | 12/04/2018 | Asbestos Fibres | NAD |
| | | | | | 12/04/2018 | Asbestos Fibres (2) | NAD |
| | | | | | 12/04/2018 | Asbestos ACM | NAD |
| | | | | | 12/04/2018 | Asbestos ACM (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Type | NAD |
| | | | | | 12/04/2018 | Asbestos Type (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Level Screen | NAD |
| 18/5000 | 1 | 57629/TP#23-2 | | 184 | 12/04/2018 | General Description (Bulk Analysis) | Soil/Stone |
| | | | | | 12/04/2018 | Asbestos Fibres | NAD |
| | | | | | 12/04/2018 | Asbestos Fibres (2) | NAD |
| | | | | | 12/04/2018 | Asbestos ACM | NAD |
| | | | | | 12/04/2018 | Asbestos ACM (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Type | NAD |
| | | | | | 12/04/2018 | Asbestos Type (2) | NAD |
| | | | | | 12/04/2018 | Asbestos Level Screen | NAD |

Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

[illegible]

Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

Matrix : Solid

| J E Job No. | Batch | Sample ID | Depth | J E Sample No. | NDP Reason |
|-------------|-------|---------------|-------|----------------|------------------------------|
| 18/5000 | 1 | 57629/TP#1-1 | | 1-4 | Sample received is below pH7 |
| 18/5000 | 1 | 57629/TP#1-2 | | 5-8 | Sample received is below pH7 |
| 18/5000 | 1 | 57629/TP#2-1 | | 9-12 | Sample received is below pH7 |
| 18/5000 | 1 | 57629/TP#2-2 | | 13-16 | Sample received is below pH7 |
| 18/5000 | 1 | 57629/TP#3-1 | | 17-20 | Sample received is below pH7 |
| 18/5000 | 1 | 57629/TP#3-2 | | 21-24 | Sample received is below pH7 |
| 18/5000 | 1 | 57629/TP#4-1 | | 25-28 | Sample received is below pH7 |
| 18/5000 | 1 | 57629/TP#4-2 | | 29-32 | Sample received is below pH7 |
| 18/5000 | 1 | 57629/TP#5-1 | | 33-37 | Sample received is below pH7 |
| 18/5000 | 1 | 57629/TP#5-2 | | 38-40 | Sample received is below pH7 |
| 18/5000 | 1 | 57629/TP#6-1 | | 41-44 | Sample received is below pH7 |
| 18/5000 | 1 | 57629/TP#6-2 | | 45-48 | Sample received is below pH7 |
| 18/5000 | 1 | 57629/TP#7-1 | | 49-52 | Sample received is below pH7 |
| 18/5000 | 1 | 57629/TP#7-2 | | 53-56 | Sample received is below pH7 |
| 18/5000 | 1 | 57629/TP#8-1 | | 57-60 | Sample received is below pH7 |
| 18/5000 | 1 | 57629/TP#8-2 | | 61-64 | Sample received is below pH7 |
| 18/5000 | 1 | 57629/TP#9-1 | | 65-68 | Sample received is below pH7 |
| 18/5000 | 1 | 57629/TP#9-2 | | 69-72 | Sample received is below pH7 |
| 18/5000 | 1 | 57629/TP#10-1 | | 73-76 | Sample received is below pH7 |
| 18/5000 | 1 | 57629/TP#10-2 | | 77-80 | Sample received is below pH7 |
| 18/5000 | 1 | 57629/TP#11-1 | | 81-84 | Sample received is below pH7 |
| 18/5000 | 1 | 57629/TP#11-2 | | 85-88 | Sample received is below pH7 |
| 18/5000 | 1 | 57629/TP#12-1 | | 89-92 | Sample received is below pH7 |
| 18/5000 | 1 | 57629/TP#12-2 | | 93-96 | Sample received is below pH7 |
| 18/5000 | 1 | 57629/TP#13-1 | | 97-100 | Sample received is below pH7 |
| 18/5000 | 1 | 57629/TP#13-2 | | 101-104 | Sample received is below pH7 |
| 18/5000 | 1 | 57629/TP#14-1 | | 105-108 | Sample received is below pH7 |
| 18/5000 | 1 | 57629/TP#14-2 | | 109-112 | Sample received is below pH7 |
| 18/5000 | 1 | 57629/TP#15-1 | | 113-116 | Sample received is below pH7 |
| 18/5000 | 1 | 57629/TP#15-2 | | 117-120 | Sample received is below pH7 |
| 18/5000 | 1 | 57629/TP#16-1 | | 121-124 | Sample received is below pH7 |
| 18/5000 | 1 | 57629/TP#16-2 | | 125-128 | Sample received is below pH7 |
| 18/5000 | 1 | 57629/TP#17-1 | | 129-132 | Sample received is below pH7 |
| 18/5000 | 1 | 57629/TP#17-2 | | 133-136 | Sample received is below pH7 |
| 18/5000 | 1 | 57629/TP#18-1 | | 137-140 | Sample received is below pH7 |

Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

Matrix : Solid

[illegible]

Client Name: Kiwa CMT Testing
Reference: 57629 (13275)
Location: Eastwood Landfill
Contact: Brandon Fairweather

[illegible]

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

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

JE Job No.: 18/5000

SOILS

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

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

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

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

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

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

All analysis is reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

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

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

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

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

WATERS

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

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

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

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

DEVIATING SAMPLES

Samples must be received in a condition appropriate to the requested analyses. All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. If this is not the case you will be informed and any test results that may be compromised highlighted on your deviating samples report.

SURROGATES

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

DILUTIONS

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

BLANKS

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

NOTE

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

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

REPORTS FROM THE SOUTH AFRICA LABORATORY

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

Please include all sections of this report if it is reproduced

ABBREVIATIONS and ACRONYMS USED

| | |
|---------|--|
| # | ISO17025 (UKAS Ref No. 4225) accredited - UK. |
| SA | ISO17025 (SANAS Ref No.T0729) accredited - South Africa. |
| B | Indicates analyte found in associated method blank. |
| DR | Dilution required. |
| M | MCERTS accredited. |
| NA | Not applicable |
| NAD | No Asbestos Detected. |
| ND | None Detected (usually refers to VOC and/SVOC TICs). |
| NDP | No Determination Possible |
| SS | Calibrated against a single substance |
| SV | Surrogate recovery outside performance criteria. This may be due to a matrix effect. |
| W | Results expressed on as received basis. |
| + | AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page. |
| ++ | Result outside calibration range, results should be considered as indicative only and are not accredited. |
| * | Analysis subcontracted to a Jones Environmental approved laboratory. |
| AD | Samples are dried at 35°C ±5°C |
| CO | Suspected carry over |
| LOD/LOR | Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS |
| ME | Matrix Effect |
| NFD | No Fibres Detected |
| BS | AQC Sample |
| LB | Blank Sample |
| N | Client Sample |
| TB | Trip Blank Sample |
| OC | Outside Calibration Range |
| AA | x5 Dilution |

JE Job No: 18/5000

| Test Method No. | Description | Prep Method No. (if appropriate) | Description | ISO 17025 (UKAS/ANAS) | MCERTS (UK soils only) | Analysis done on As Received (AR) or Dried (AD) | Reported on dry weight basis |
|-----------------|--|----------------------------------|---|-----------------------|------------------------|---|------------------------------|
| PM4 | Gravimetric measurement of Natural Moisture Content and % Moisture Content at either 35°C or 105°C. Calculation based on ISO 11465 and BS1377. | PM0 | No preparation is required. | | | | |
| PM4 | Gravimetric measurement of Natural Moisture Content and % Moisture Content at either 35°C or 105°C. Calculation based on ISO 11465 and BS1377. | PM0 | No preparation is required. | | | AR | |
| TM4 | Modified USEPA 8270 method for the solvent extraction and determination of 16 PAHs by GC-MS. | PM8 | End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required. | | | AR | Yes |
| TM4 | Modified USEPA 8270 method for the solvent extraction and determination of 16 PAHs by GC-MS. | PM8 | End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required. | Yes | | AR | Yes |
| TM5 | Modified USEPA 8015B method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) with carbon banding within the range C8-C40 GC-FID. | PM8/PM16 | End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required/Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE. | | | AR | Yes |
| TM5 | Modified USEPA 8015B method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) with carbon banding within the range C8-C40 GC-FID. | PM8/PM16 | End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required/Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE. | Yes | | AR | Yes |
| TM5/TM36 | please refer to TM5 and TM36 for method details | PM8/PM12/PM16 | please refer to PM8/PM16 and PM12 for method details | | | AR | Yes |
| TM21 | Modified USEPA 415.1. Determination of Total Organic Carbon or Total Carbon by combustion in an Eltra TOC furnace/analyser in the presence of oxygen. The CO ₂ generated is quantified using infra-red detection. Organic Matter (SOM) calculated as per EA MCERTS Chemical Testing of Soil, March 2012 v4. | PM24 | Dried and ground solid samples are washed with hydrochloric acid, then rinsed with deionised water to remove the mineral carbon before TOC analysis. | Yes | | AD | Yes |
| TM22 | Modified USEPA 160.4. Gravimetric determination of Loss on Ignition by temperature controlled Muffle Furnace (450°C) | PM0 | No preparation is required. | Yes | | AD | Yes |
| TM26 | Determination of phenols by Reversed Phased High Performance Liquid Chromatography and Electro-Chemical Detection. | PM21 | As received solid or water samples are extracted in Methanol: Sodium Hydroxide (0.1M NaOH) (60:40) by orbital shaker. | Yes | | AR | Yes |

JE Job No: 18/5000

| Test Method No. | Description | Prep Method No. (if appropriate) | Description | ISO 17025 (UKAS/ANAS) | MCERTS (UK soils only) | Analysis done on As Received (AR) or Dried (AD) | Reported on dry weight basis |
|-----------------|---|----------------------------------|---|-----------------------|------------------------|---|------------------------------|
| TM30 | Determination of Trace Metal elements by ICP-OES (Inductively Coupled Plasma - Optical Emission Spectrometry). Modified US EPA Method 200.7, 6010B and BS EN ISO 11885 2009 | PM15 | Acid digestion of dried and ground solid samples using Aqua Regia refluxed at 112.5 °C. Samples containing asbestos are not dried and ground. | | | AD | Yes |
| TM30 | Determination of Trace Metal elements by ICP-OES (Inductively Coupled Plasma - Optical Emission Spectrometry). Modified US EPA Method 200.7, 6010B and BS EN ISO 11885 2009 | PM15 | Acid digestion of dried and ground solid samples using Aqua Regia refluxed at 112.5 °C. Samples containing asbestos are not dried and ground. | Yes | | AD | Yes |
| TM30 | Determination of Trace Metal elements by ICP-OES (Inductively Coupled Plasma - Optical Emission Spectrometry). Modified US EPA Method 200.7, 6010B and BS EN ISO 11885 2009 | PM20 | Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker. | | | AD | Yes |
| TM31 | Modified USEPA 8015B. Determination of Methyltertbutylether, Benzene, Toluene, Ethylbenzene and Xylene by headspace GC-FID. | PM12 | Modified US EPA method 5021. Preparation of solid and liquid samples for GC headspace analysis. | Yes | | AR | Yes |
| TM36 | Modified US EPA method 8015B. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. | PM12 | Modified US EPA method 5021. Preparation of solid and liquid samples for GC headspace analysis. | | | AR | Yes |
| TM36 | Modified US EPA method 8015B. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. | PM12 | Modified US EPA method 5021. Preparation of solid and liquid samples for GC headspace analysis. | Yes | | AR | Yes |
| TM38 | Soluble Ion analysis using the Thermo Aquakem Photometric Automatic Analyser. Modified US EPA methods 325.2, 375.4, 365.2, 353.1, 354.1 | PM20 | Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker. | | | AD | Yes |
| TM38 | Soluble Ion analysis using the Thermo Aquakem Photometric Automatic Analyser. Modified US EPA methods 325.2, 375.4, 365.2, 353.1, 354.1 | PM20 | Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker. | Yes | | AD | Yes |
| TM38 | Soluble Ion analysis using the Thermo Aquakem Photometric Automatic Analyser. Modified US EPA methods 325.2, 375.4, 365.2, 353.1, 354.1 | PM20 | Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker. | Yes | | AR | Yes |
| TM50 | Acid soluble sulphate (Total Sulphate) analysed by ICP-OES | PM29 | Dried and ground solid sample is boiled with dilute hydrochloric acid, the resulting liquor is then analysed. | Yes | | AD | Yes |

JE Job No: 18/5000

| Test Method No. | Description | Prep Method No. (if appropriate) | Description | ISO 17025 (UKAS/ANAS) | MCERTS (UK soils only) | Analysis done on As Received (AR) or Dried (AD) | Reported on dry weight basis |
|-----------------|---|----------------------------------|--|-----------------------|------------------------|---|------------------------------|
| TM65 | Asbestos Bulk Identification method based on HSG 248. | PM42 | Solid samples undergo a thorough visual inspection for asbestos fibres prior to asbestos identification using TM065. | Yes | | AR | |
| TM73 | Modified US EPA methods 150.1 and 9045D and BS1377:1990. Determination of pH by Metrohm automated probe analyser. | PM11 | Extraction of as received solid samples using one part solid to 2.5 parts deionised water. | Yes | | AR | No |
| TM74 | Analysis of water soluble boron (20:1 extract) by ICP-OES. | PM32 | Hot water soluble boron is extracted from dried and ground samples using a 20:1 ratio. | Yes | | AD | Yes |
| TM77 | Modified DDCE/TS method 15364:2006. Determination of Acid Neutralization Capacity by Metrohm automated probe analyser. | PM0 | No preparation is required. | | | AR | No |
| TM89 | Modified USEPA method OIA-1667. Determination of cyanide by Flow Injection Analyser. Where WAD cyanides are required a Ligand displacement step is carried out before analysis. | PM45 | As received solid samples are extracted with 1M NaOH by orbital shaker for Cyanide and Thiocyanate analysis. | | | AR | Yes |
| TM89 | Modified USEPA method OIA-1667. Determination of cyanide by Flow Injection Analyser. Where WAD cyanides are required a Ligand displacement step is carried out before analysis. | PM45 | As received solid samples are extracted with 1M NaOH by orbital shaker for Cyanide and Thiocyanate analysis. | Yes | | AR | Yes |
| TM106 | Determination of Sulphide by Skalar Continuous Flow Analyser | PM119 | As received solid samples are extracted with 1M NaOH by orbital shaker for Sulphide and Thiocyanate analysis. | | | AR | Yes |
| TM107 | Determination of Thiocyanate by Skalar Continuous Flow Analyser | PM119 | As received solid samples are extracted with 1M NaOH by orbital shaker for Sulphide and Thiocyanate analysis. | | | AR | Yes |
| TM108 | Determination of Elemental Sulphur by Reversed Phase High Performance Liquid Chromatography with Ultra Violet spectroscopy. | PM114 | End over end extraction of dried and crushed soil samples for organic analysis. The solvent mix varies depending on analysis required | | | AD | Yes |
| NONE | No Method Code | PM4 | Gravimetric measurement of Natural Moisture Content and % Moisture Content at either 35°C or 105°C. Calculation based on ISO 11465 and BS1377. | | | AR | |

Appendix N

BRE SD1 Suite Results



Exova Jones Environmental

Registered Address : Exova (UK) Ltd, Lochend Industrial Estate, Newbridge, Midlothian, EH28 8PL

Unit 3 Deeside Point
Zone 3
Deeside Industrial Park
Deeside
CH5 2UA

Kiwa CMT Testing
Unit 5 Prime Park Way
Prime Enterprise Park
Derby
Derbyshire
DE1 3QB

Tel: +44 (0) 1244 833780
Fax: +44 (0) 1244 833781



| | |
|--------------------------------|--|
| Attention : | Russell Corbyn |
| Date : | 24th April, 2018 |
| Your reference : | 57629 |
| Our reference : | Test Report 18/5256 Batch 1 Schedule B |
| Location : | Eastwood |
| Date samples received : | 10th April, 2018 |
| Status : | Final report |
| Issue : | 1 |

Fifteen samples were received for analysis on 10th April, 2018 of which four were scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.

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

Compiled By:

Simon Gomery BSc
Project Manager

Please see attached notes for all abbreviations and acronyms

Client Name: Kiwa CMT Testing
Reference: 57629
Location: Eastwood
Contact: Russell Corbyn

[illegible]

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

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

JE Job No.: 18/5256

SOILS

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

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

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

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

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

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

All analysis is reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

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

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

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

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

WATERS

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

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

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

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

DEVIATING SAMPLES

Samples must be received in a condition appropriate to the requested analyses. All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. If this is not the case you will be informed and any test results that may be compromised highlighted on your deviating samples report.

SURROGATES

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

DILUTIONS

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

BLANKS

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

NOTE

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

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

REPORTS FROM THE SOUTH AFRICA LABORATORY

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

Please include all sections of this report if it is reproduced

ABBREVIATIONS and ACRONYMS USED

| | |
|---------|--|
| # | ISO17025 (UKAS Ref No. 4225) accredited - UK. |
| SA | ISO17025 (SANAS Ref No.T0729) accredited - South Africa. |
| B | Indicates analyte found in associated method blank. |
| DR | Dilution required. |
| M | MCERTS accredited. |
| NA | Not applicable |
| NAD | No Asbestos Detected. |
| ND | None Detected (usually refers to VOC and/SVOC TICs). |
| NDP | No Determination Possible |
| SS | Calibrated against a single substance |
| SV | Surrogate recovery outside performance criteria. This may be due to a matrix effect. |
| W | Results expressed on as received basis. |
| + | AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page. |
| ++ | Result outside calibration range, results should be considered as indicative only and are not accredited. |
| * | Analysis subcontracted to a Jones Environmental approved laboratory. |
| AD | Samples are dried at 35°C ±5°C |
| CO | Suspected carry over |
| LOD/LOR | Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS |
| ME | Matrix Effect |
| NFD | No Fibres Detected |
| BS | AQC Sample |
| LB | Blank Sample |
| N | Client Sample |
| TB | Trip Blank Sample |
| OC | Outside Calibration Range |

JE Job No: 18/5256

| Test Method No. | Description | Prep Method No. (if appropriate) | Description | ISO 17025 (UKAS/ANAS) | MCERTS (UK soils only) | Analysis done on As Received (AR) or Dried (AD) | Reported on dry weight basis |
|-----------------|---|----------------------------------|---|-----------------------|------------------------|---|------------------------------|
| TM38 | Soluble Ion analysis using the Thermo Aquakem Photometric Automatic Analyser. Modified US EPA methods 325.2, 375.4, 365.2, 353.1, 354.1 | PM20 | Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker. | | | AD | Yes |
| TM38 | Soluble Ion analysis using the Thermo Aquakem Photometric Automatic Analyser. Modified US EPA methods 325.2, 375.4, 365.2, 353.1, 354.1 | PM20 | Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker. | Yes | | AD | Yes |
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Exova Jones Environmental

Registered Address : Exova (UK) Ltd, Lochend Industrial Estate, Newbridge, Midlothian, EH28 8PL

Unit 3 Deeside Point
Zone 3
Deeside Industrial Park
Deeside
CH5 2UA

Kiwa CMT Testing
Unit 5 Prime Park Way
Prime Enterprise Park
Derby
Derbyshire
DE1 3QB

Tel: +44 (0) 1244 833780
Fax: +44 (0) 1244 833781



| | |
|--------------------------------|-----------------------------|
| Attention : | Russell Corbyn |
| Date : | 18th April, 2018 |
| Your reference : | 57629 |
| Our reference : | Test Report 18/5256 Batch 1 |
| Location : | Eastwood |
| Date samples received : | 10th April, 2018 |
| Status : | Final report |
| Issue : | 1 |

Fifteen samples were received for analysis on 10th April, 2018 of which fifteen were scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.

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

Compiled By:

Simon Gomery BSc
Project Manager

Please see attached notes for all abbreviations and acronyms

Please see attached notes for all abbreviations and acronyms

Client Name: Kiwa CMT Testing

Reference: 57629

Location: Eastwood

Contact: Russell Corbyn

[illegible]

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

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

JE Job No.: 18/5256

SOILS

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

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

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

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

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

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

All analysis is reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

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

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

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

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

WATERS

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

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

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

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

DEVIATING SAMPLES

Samples must be received in a condition appropriate to the requested analyses. All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. If this is not the case you will be informed and any test results that may be compromised highlighted on your deviating samples report.

SURROGATES

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

DILUTIONS

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

BLANKS

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

NOTE

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

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

REPORTS FROM THE SOUTH AFRICA LABORATORY

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

Please include all sections of this report if it is reproduced

ABBREVIATIONS and ACRONYMS USED

| | |
|---------|--|
| # | ISO17025 (UKAS Ref No. 4225) accredited - UK. |
| SA | ISO17025 (SANAS Ref No.T0729) accredited - South Africa. |
| B | Indicates analyte found in associated method blank. |
| DR | Dilution required. |
| M | MCERTS accredited. |
| NA | Not applicable |
| NAD | No Asbestos Detected. |
| ND | None Detected (usually refers to VOC and/SVOC TICs). |
| NDP | No Determination Possible |
| SS | Calibrated against a single substance |
| SV | Surrogate recovery outside performance criteria. This may be due to a matrix effect. |
| W | Results expressed on as received basis. |
| + | AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page. |
| ++ | Result outside calibration range, results should be considered as indicative only and are not accredited. |
| * | Analysis subcontracted to a Jones Environmental approved laboratory. |
| AD | Samples are dried at 35°C ±5°C |
| CO | Suspected carry over |
| LOD/LOR | Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS |
| ME | Matrix Effect |
| NFD | No Fibres Detected |
| BS | AQC Sample |
| LB | Blank Sample |
| N | Client Sample |
| TB | Trip Blank Sample |
| OC | Outside Calibration Range |

JE Job No: 18/5256

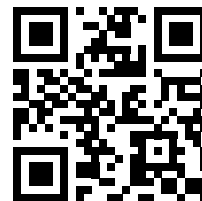
| Test Method No. | Description | Prep Method No. (if appropriate) | Description | ISO 17025 (UKAS/ANAS) | MCERTS (UK soils only) | Analysis done on As Received (AR) or Dried (AD) | Reported on dry weight basis |
|-----------------|---|----------------------------------|---|-----------------------|------------------------|---|------------------------------|
| TM30 | Determination of Trace Metal elements by ICP-OES (Inductively Coupled Plasma - Optical Emission Spectrometry). Modified US EPA Method 200.7, 6010B and BS EN ISO 11885 2009 | PM15 | Acid digestion of dried and ground solid samples using Aqua Regia refluxed at 112.5 °C. Samples containing asbestos are not dried and ground. | | | AD | Yes |
| TM38 | Soluble Ion analysis using the Thermo Aquakem Photometric Automatic Analyser. Modified US EPA methods 325.2, 375.4, 365.2, 353.1, 354.1 | PM20 | Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker. | Yes | | AD | Yes |
| TM50 | Acid soluble sulphate (Total Sulphate) analysed by ICP-OES | PM29 | Dried and ground solid sample is boiled with dilute hydrochloric acid, the resulting liquor is then analysed. | | | AD | Yes |
| TM73 | Modified US EPA methods 150.1 and 9045D and BS1377:1990. Determination of pH by Metrohm automated probe analyser. | PM11 | Extraction of as received solid samples using one part solid to 2.5 parts deionised water. | Yes | | AR | No |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| sample | pH | 2:1 sulfate | nitrate | chloride | water sulfate | DS Class | ACEC Class |
|-----------|----------|-------------|---------|----------|---------------|----------|------------|
| reference | pH Units | g/l | g/l | g/l | mg/l | | |
| TP#1-1 | 6.1 | 0.0174 | | | | DS-1 | AC-1 |
| TP#1-2 | 6.24 | 0.0928 | | | | DS-1 | AC-2z |
| TP#1-3 | 5.58 | 0.0362 | | | | DS-1 | AC-2z |
| TP#2-1 | 6.42 | 0.0212 | | | | DS-1 | AC-2z |
| TP#2-2 | 5.87 | 0.0967 | | | | DS-1 | AC-2z |
| TP#2-3 | 6.69 | 0.0347 | | | | DS-1 | AC-1 |
| TP#2-5 | 6.78 | 0.0456 | | | | DS-1 | AC-1 |
| TP#3-1 | 6.29 | 0.0202 | | | | DS-1 | AC-2z |
| TP#3-2 | 6.86 | 0.017 | <0.0025 | <0.002 | | DS-1 | AC-1 |
| TP#4-1 | 6.43 | 0.0228 | | | | DS-1 | AC-2z |
| TP#4-2 | 5.21 | 0.0946 | <0.0025 | <0.002 | | DS-1 | AC-3z |
| TP#4-4 | 5.68 | 0.0119 | | | | DS-1 | AC-2z |
| TP#5-1 | 6.39 | 0.0136 | | | | DS-1 | AC-2z |
| TP#5-2 | 6.41 | 0.0159 | 0.0033 | 0.004 | | DS-1 | AC-2z |
| TP#6-1 | 6.88 | 0.0246 | | | | DS-1 | AC-1 |
| TP#6-2 | 7.68 | 0.0207 | | | | DS-1 | AC-1 |
| TP#7-1 | 6.23 | 0.0022 | | | | DS-1 | AC-2z |
| TP#7-2 | 5.91 | 0.0174 | <0.0025 | <0.002 | | DS-1 | AC-2z |
| TP#8-1 | 6.48 | 0.011 | | | | DS-1 | AC-2z |
| TP#8-2 | 6.57 | 0.0182 | <0.0025 | <0.002 | | DS-1 | AC-1 |
| TP#8-3 | 5.4 | 0.0152 | <0.0025 | <0.002 | | DS-1 | AC-3z |
| TP#9-1 | 6.71 | 0.0123 | | | | DS-1 | AC-1 |
| TP#9-2 | 7.15 | 0.0084 | <0.0025 | <0.002 | | DS-1 | AC-1 |
| TP#10-1 | 6.48 | 0.0076 | | | | DS-1 | AC-1 |
| TP#10-2 | 6.9 | 0.0075 | | | | DS-1 | AC-1 |
| TP#10-3 | 7.13 | 0.0053 | | | | DS-1 | AC-1 |
| TP#11-1 | 6.29 | 0.0134 | | | | DS-1 | AC-2z |
| TP#11-2 | 5.97 | 0.0186 | | | | DS-1 | AC-2z |
| TP#11-3 | 5.64 | 0.0074 | | | | DS-1 | AC-2z |
| TP#12-1 | 6.39 | 0.0235 | | | | DS-1 | AC-2z |
| TP#12-2 | 6.48 | 0.0319 | 0.0025 | 0.011 | | DS-1 | AC-2z |
| TP#12-3 | 5.28 | 0.0621 | | | | DS-1 | AC-3z |
| TP#13-1 | 6.77 | 0.0211 | | | | DS-1 | AC-1 |
| TP#13-2 | 6.94 | 0.0176 | | | | DS-1 | AC-1 |
| TP#13-3 | 5.28 | 0.042 | <0.0025 | 0.007 | | DS-1 | AC-3z |
| TP#14-1 | 6.36 | 0.013 | | | | DS-1 | AC-2z |
| TP#14-2 | 5.84 | 0.0807 | | | | DS-1 | AC-2z |
| TP#14-3 | 7.29 | 0.0246 | | | | DS-1 | AC-1 |
| TP#15-1 | 6.18 | 0.038 | | | | DS-1 | AC-2z |

Appendix O

Waste Assessment Outputs

Waste Classification Report



F7C6U-G5NDY-LXXZP

Job name

57629

Description/Comments

General Suite of Contaminants for Soil

Project

Broxtowe Borough Council

Site

Eastwood Fields

Waste Stream Template

Contamination Suite

Classified by

Name:
Russell Corbyn
Date:
23 May 2018 08:06 GMT
Telephone:
01332 383333

Company:
Kiwa CMT Testing Ltd
Prime Parkway
Prime Enterprise Park
Derby
DE1 3QB

Report

Created by: Russell Corbyn
Created date: 23 May 2018 08:06 GMT

Job summary

| # | Sample Name | Depth [m] | Classification Result | Hazard properties | Page |
|----|--------------|-----------|-----------------------|-------------------|------|
| 1 | 57629/TP#1-1 | | Non Hazardous | | 3 |
| 2 | 57629/TP#1-2 | | Non Hazardous | | 5 |
| 3 | 57629/TP#2-1 | | Non Hazardous | | 7 |
| 4 | 57629/TP#2-2 | | Non Hazardous | | 9 |
| 5 | 57629/TP#3-1 | | Non Hazardous | | 11 |
| 6 | 57629/TP#3-2 | | Non Hazardous | | 13 |
| 7 | 57629/TP#4-1 | | Non Hazardous | | 15 |
| 8 | 57629/TP#4-2 | | Non Hazardous | | 17 |
| 9 | 57629/TP#5-1 | | Non Hazardous | | 19 |
| 10 | 57629/TP#5-2 | | Non Hazardous | | 21 |
| 11 | 57629/TP#6-1 | | Non Hazardous | | 23 |
| 12 | 57629/TP#6-2 | | Non Hazardous | | 25 |
| 13 | 57629/TP#7-1 | | Non Hazardous | | 27 |
| 14 | 57629/TP#7-2 | | Non Hazardous | | 29 |
| 15 | 57629/TP#8-1 | | Non Hazardous | | 31 |
| 16 | 57629/TP#8-2 | | Non Hazardous | | 34 |

| # | Sample Name | Depth [m] | Classification Result | Hazard properties | Page |
|----|---------------|-----------|-----------------------|-------------------|------|
| 17 | 57629/TP#9-1 | | Non Hazardous | | 36 |
| 18 | 57629/TP#9-2 | | Non Hazardous | | 38 |
| 19 | 57629/TP#10-1 | | Non Hazardous | | 40 |
| 20 | 57629/TP#10-2 | | Non Hazardous | | 42 |
| 21 | 57629/TP#11-1 | | Non Hazardous | | 44 |
| 22 | 57629/TP#11-2 | | Non Hazardous | | 46 |
| 23 | 57629/TP#12-1 | | Non Hazardous | | 48 |
| 24 | 57629/TP#12-2 | | Non Hazardous | | 50 |
| 25 | 57629/TP#13-1 | | Non Hazardous | | 52 |
| 26 | 57629/TP#13-2 | | Non Hazardous | | 55 |
| 27 | 57629/TP#14-1 | | Non Hazardous | | 57 |
| 28 | 57629/TP#14-2 | | Non Hazardous | | 60 |
| 29 | 57629/TP#15-1 | | Non Hazardous | | 62 |
| 30 | 57629/TP#15-2 | | Non Hazardous | | 64 |
| 31 | 57629/TP#16-1 | | Non Hazardous | | 66 |
| 32 | 57629/TP#16-2 | | Non Hazardous | | 68 |
| 33 | 57629/TP#17-1 | | Non Hazardous | | 70 |
| 34 | 57629/TP#17-2 | | Non Hazardous | | 72 |
| 35 | 57629/TP#18-1 | | Non Hazardous | | 74 |
| 36 | 57629/TP#18-2 | | Non Hazardous | | 77 |
| 37 | 57629/TP#19-1 | | Non Hazardous | | 79 |
| 38 | 57629/TP#19-2 | | Non Hazardous | | 82 |
| 39 | 57629/TP#20-1 | | Non Hazardous | | 84 |
| 40 | 57629/TP#20-2 | | Non Hazardous | | 86 |
| 41 | 57629/TP#21-1 | | Non Hazardous | | 88 |
| 42 | 57629/TP#21-2 | | Non Hazardous | | 90 |
| 43 | 57629/TP#22-1 | | Non Hazardous | | 92 |
| 44 | 57629/TP#22-2 | | Non Hazardous | | 94 |
| 45 | 57629/TP#23-1 | | Non Hazardous | | 96 |
| 46 | 57629/TP#23-2 | | Non Hazardous | | 98 |
| 47 | 57629/TP#24-1 | | Non Hazardous | | 100 |
| 48 | 57629/TP#24-2 | | Non Hazardous | | 102 |

| | |
|---|------|
| Appendices | Page |
| Appendix A: Classifier defined and non CLP determinands | 104 |
| Appendix B: Rationale for selection of metal species | 106 |
| Appendix C: Version | 106 |

Classification of sample: 57629/TP#1-1

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

Sample details

| | |
|-------------------------|---|
| Sample Name: | LoW Code: |
| 57629/TP#1-1 | Chapter: |
| Moisture content: | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| 31.4% | Entry: |
| (dry weight correction) | 17 05 04 (Soil and stones other than those mentioned in 17 05 03) |

Hazard properties

None identified


Determinands

Moisture content: 31.4% Dry Weight Moisture Correction applied (MC)

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|----|--|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | |
| 1 | pH | | | | 6.1 pH | | 6.1 pH | 6.1 pH | | |
| 2 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } | | | | <0.5 mg/kg | 1.884 | <0.942 mg/kg | <0.0000942 % | | <LOD |
| | 006-007-00-5 | | | | | | | | | |
| 3 | phenol | | | | <0.01 mg/kg | | <0.01 mg/kg | <0.000001 % | | <LOD |
| | 604-001-00-2 | 203-632-7 | 108-95-2 | | | | | | | |
| 4 | antimony { antimony trioxide } | | | | 4 mg/kg | 1.197 | 3.644 mg/kg | 0.000364 % | ✓ | |
| | 051-005-00-X | 215-175-0 | 1309-64-4 | | | | | | | |
| 5 | arsenic { arsenic trioxide } | | | | 18.5 mg/kg | 1.32 | 18.589 mg/kg | 0.00186 % | ✓ | |
| | 033-003-00-0 | 215-481-4 | 1327-53-3 | | | | | | | |
| 6 | barium { barium sulfate } | | | | 177 mg/kg | 1.7 | 228.93 mg/kg | 0.0229 % | ✓ | |
| | | 231-784-4 | 7727-43-7 | | | | | | | |
| 7 | cadmium { cadmium sulfide } | | | 1 | 0.7 mg/kg | 1.285 | 0.685 mg/kg | 0.0000533 % | ✓ | |
| | 048-010-00-4 | 215-147-8 | 1306-23-6 | | | | | | | |
| 8 | chromium in chromium(III) compounds { chromium(III) oxide } | | | | 44.8 mg/kg | 1.462 | 49.831 mg/kg | 0.00498 % | ✓ | |
| | | 215-160-9 | 1308-38-9 | | | | | | | |
| 9 | copper { dicopper oxide; copper (I) oxide } | | | | 31 mg/kg | 1.126 | 26.562 mg/kg | 0.00266 % | ✓ | |
| | 029-002-00-X | 215-270-7 | 1317-39-1 | | | | | | | |
| 10 | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } | | | 1 | 109 mg/kg | | 82.953 mg/kg | 0.0083 % | ✓ | |
| | 082-001-00-6 | | | | | | | | | |
| 11 | mercury { mercury dichloride } | | | | <0.1 mg/kg | 1.353 | <0.135 mg/kg | <0.0000135 % | | <LOD |
| | 080-010-00-X | 231-299-8 | 7487-94-7 | | | | | | | |
| 12 | nickel { nickel dihydroxide } | | | | 11.8 mg/kg | 1.579 | 14.184 mg/kg | 0.00142 % | ✓ | |
| | 028-008-00-X | 235-008-5 [1] 234-348-1 [2] | 12054-48-7 [1] 11113-74-9 [2] | | | | | | | |
| 13 | selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } | | | | 1 mg/kg | 2.554 | 1.943 mg/kg | 0.000194 % | ✓ | |
| | 034-002-00-8 | | | | | | | | | |

| # | Determinand | | | CLP Note | User entered data | | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|--------|---|--------------|-----------------------------------|-----------------------------|-------------------|-------|--------------|----------------|-------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | | |
| 14 | vanadium { divanadium pentaoxide; vanadium pentoxide } | 023-001-00-8 | 215-239-8 | 1314-62-1 | 57 | mg/kg | 1.785 | 77.44 | mg/kg | 0.00774 % | ✓ | |
| 15 | boron { boron tribromide/trichloride/trifluoride (combined) } | | 10294-33-4, 10294-34-5, 7637-07-2 | | 2.4 | mg/kg | 13.43 | 24.53 | mg/kg | 0.00245 % | ✓ | |
| 16 | zinc { zinc sulphate } | 030-006-00-9 | 231-793-3 [1] 231-793-3 [2] | 7446-19-7 [1] 7733-02-0 [2] | 169 | mg/kg | 2.469 | 317.588 | mg/kg | 0.0318 % | ✓ | |
| 17 | chromium in chromium(VI) compounds { chromium(VI) oxide } | 024-001-00-0 | 215-607-8 | 1333-82-0 | <0.3 | mg/kg | 1.923 | <0.577 | mg/kg | <0.0000577 % | | <LOD |
| 18 | TPH (C6 to C40) petroleum group | | TPH | | <52 | mg/kg | | <52 | mg/kg | <0.0052 % | | <LOD |
| 19 | naphthalene | 601-052-00-2 | 202-049-5 | 91-20-3 | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| 20 | acenaphthylene | | 205-917-1 | 208-96-8 | 0.05 | mg/kg | | 0.0381 | mg/kg | 0.00000381 % | ✓ | |
| 21 | acenaphthene | | 201-469-6 | 83-32-9 | <0.05 | mg/kg | | <0.05 | mg/kg | <0.000005 % | | <LOD |
| 22 | fluorene | | 201-695-5 | 86-73-7 | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| 23 | phenanthrene | | 201-581-5 | 85-01-8 | 0.23 | mg/kg | | 0.175 | mg/kg | 0.0000175 % | ✓ | |
| 24 | anthracene | | 204-371-1 | 120-12-7 | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| 25 | fluoranthene | | 205-912-4 | 206-44-0 | 0.73 | mg/kg | | 0.556 | mg/kg | 0.0000556 % | ✓ | |
| 26 | pyrene | | 204-927-3 | 129-00-0 | 0.63 | mg/kg | | 0.479 | mg/kg | 0.0000479 % | ✓ | |
| 27 | benzo[a]anthracene | 601-033-00-9 | 200-280-6 | 56-55-3 | 0.37 | mg/kg | | 0.282 | mg/kg | 0.0000282 % | ✓ | |
| 28 | chrysene | 601-048-00-0 | 205-923-4 | 218-01-9 | 0.32 | mg/kg | | 0.244 | mg/kg | 0.0000244 % | ✓ | |
| 29 | benzo[b]fluoranthene | 601-034-00-4 | 205-911-9 | 205-99-2 | 0.44 | mg/kg | | 0.335 | mg/kg | 0.0000335 % | ✓ | |
| 30 | benzo[k]fluoranthene | 601-036-00-5 | 205-916-6 | 207-08-9 | 0.17 | mg/kg | | 0.129 | mg/kg | 0.0000129 % | ✓ | |
| 31 | benzo[a]pyrene; benzo[def]chrysene | 601-032-00-3 | 200-028-5 | 50-32-8 | 0.32 | mg/kg | | 0.244 | mg/kg | 0.0000244 % | ✓ | |
| 32 | indeno[123-cd]pyrene | | 205-893-2 | 193-39-5 | 0.21 | mg/kg | | 0.16 | mg/kg | 0.000016 % | ✓ | |
| 33 | dibenz[a,h]anthracene | 601-041-00-2 | 200-181-8 | 53-70-3 | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| 34 | benzo[ghi]perylene | | 205-883-8 | 191-24-2 | 0.21 | mg/kg | | 0.16 | mg/kg | 0.000016 % | ✓ | |
| Total: | | | | | | | | | | 0.0903 % | | |

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 Determinand - 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

Classification of sample: 57629/TP#1-2

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

Sample details

| | |
|-------------------------|---|
| Sample Name: | LoW Code: |
| 57629/TP#1-2 | Chapter: |
| Moisture content: | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| 25.7% | Entry: |
| (dry weight correction) | 17 05 04 (Soil and stones other than those mentioned in 17 05 03) |

Hazard properties

None identified


Determinands

Moisture content: 25.7% Dry Weight Moisture Correction applied (MC)

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|----|--|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | |
| 1 | pH | | | | 6.24 pH | | 6.24 pH | 6.24 pH | | |
| 2 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } | | | | <0.5 mg/kg | 1.884 | <0.942 mg/kg | <0.0000942 % | | <LOD |
| | 006-007-00-5 | | | | | | | | | |
| 3 | phenol | | | | <0.01 mg/kg | | <0.01 mg/kg | <0.000001 % | | <LOD |
| | 604-001-00-2 | 203-632-7 | 108-95-2 | | | | | | | |
| 4 | antimony { antimony trioxide } | | | | 2 mg/kg | 1.197 | 1.905 mg/kg | 0.00019 % | ✓ | |
| | 051-005-00-X | 215-175-0 | 1309-64-4 | | | | | | | |
| 5 | arsenic { arsenic trioxide } | | | | 4.9 mg/kg | 1.32 | 5.147 mg/kg | 0.000515 % | ✓ | |
| | 033-003-00-0 | 215-481-4 | 1327-53-3 | | | | | | | |
| 6 | barium { barium sulfate } | | | | 81 mg/kg | 1.7 | 109.515 mg/kg | 0.011 % | ✓ | |
| | | 231-784-4 | 7727-43-7 | | | | | | | |
| 7 | cadmium { cadmium sulfide } | | | 1 | <0.1 mg/kg | 1.285 | <0.129 mg/kg | <0.00001 % | | <LOD |
| | 048-010-00-4 | 215-147-8 | 1306-23-6 | | | | | | | |
| 8 | chromium in chromium(III) compounds { chromium(III) oxide } | | | | 29.9 mg/kg | 1.462 | 34.766 mg/kg | 0.00348 % | ✓ | |
| | | 215-160-9 | 1308-38-9 | | | | | | | |
| 9 | copper { dicopper oxide; copper (I) oxide } | | | | 23 mg/kg | 1.126 | 20.601 mg/kg | 0.00206 % | ✓ | |
| | 029-002-00-X | 215-270-7 | 1317-39-1 | | | | | | | |
| 10 | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } | | | 1 | 24 mg/kg | | 19.093 mg/kg | 0.00191 % | ✓ | |
| | 082-001-00-6 | | | | | | | | | |
| 11 | mercury { mercury dichloride } | | | | <0.1 mg/kg | 1.353 | <0.135 mg/kg | <0.0000135 % | | <LOD |
| | 080-010-00-X | 231-299-8 | 7487-94-7 | | | | | | | |
| 12 | nickel { nickel dihydroxide } | | | | 21.8 mg/kg | 1.579 | 27.393 mg/kg | 0.00274 % | ✓ | |
| | 028-008-00-X | 235-008-5 [1] 234-348-1 [2] | 12054-48-7 [1] 11113-74-9 [2] | | | | | | | |
| 13 | selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } | | | | <1 mg/kg | 2.554 | <2.554 mg/kg | <0.000255 % | | <LOD |
| | 034-002-00-8 | | | | | | | | | |

| # | Determinand | | | CLP Note | User entered data | | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|--------|---|-----------------------------|-----------------------------------|----------|-------------------|-------|--------------|----------------|-------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | | |
| 14 | vanadium { divanadium pentaoxide; vanadium pentoxide } | | | | 33 | mg/kg | 1.785 | 46.866 | mg/kg | 0.00469 % | ✓ | |
| | 023-001-00-8 | 215-239-8 | 1314-62-1 | | | | | | | | | |
| 15 | boron { boron tribromide/trichloride/trifluoride (combined) } | | | | 0.8 | mg/kg | 13.43 | 8.547 | mg/kg | 0.000855 % | ✓ | |
| | | | 10294-33-4, 10294-34-5, 7637-07-2 | | | | | | | | | |
| 16 | zinc { zinc sulphate } | | | | 76 | mg/kg | 2.469 | 149.297 | mg/kg | 0.0149 % | ✓ | |
| | 030-006-00-9 | 231-793-3 [1] 231-793-3 [2] | 7446-19-7 [1] 7733-02-0 [2] | | | | | | | | | |
| 17 | chromium in chromium(VI) compounds { chromium(VI) oxide } | | | | <0.3 | mg/kg | 1.923 | <0.577 | mg/kg | <0.0000577 % | | <LOD |
| | 024-001-00-0 | 215-607-8 | 1333-82-0 | | | | | | | | | |
| 18 | TPH (C6 to C40) petroleum group | | | | <52 | mg/kg | | <52 | mg/kg | <0.0052 % | | <LOD |
| | | | TPH | | | | | | | | | |
| 19 | naphthalene | | | | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | 601-052-00-2 | 202-049-5 | 91-20-3 | | | | | | | | | |
| 20 | acenaphthylene | | | | <0.03 | mg/kg | | <0.03 | mg/kg | <0.000003 % | | <LOD |
| | | 205-917-1 | 208-96-8 | | | | | | | | | |
| 21 | acenaphthene | | | | <0.05 | mg/kg | | <0.05 | mg/kg | <0.000005 % | | <LOD |
| | | 201-469-6 | 83-32-9 | | | | | | | | | |
| 22 | fluorene | | | | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | | 201-695-5 | 86-73-7 | | | | | | | | | |
| 23 | phenanthrene | | | | <0.03 | mg/kg | | <0.03 | mg/kg | <0.000003 % | | <LOD |
| | | 201-581-5 | 85-01-8 | | | | | | | | | |
| 24 | anthracene | | | | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | | 204-371-1 | 120-12-7 | | | | | | | | | |
| 25 | fluoranthene | | | | <0.03 | mg/kg | | <0.03 | mg/kg | <0.000003 % | | <LOD |
| | | 205-912-4 | 206-44-0 | | | | | | | | | |
| 26 | pyrene | | | | <0.03 | mg/kg | | <0.03 | mg/kg | <0.000003 % | | <LOD |
| | | 204-927-3 | 129-00-0 | | | | | | | | | |
| 27 | benzo[a]anthracene | | | | <0.06 | mg/kg | | <0.06 | mg/kg | <0.000006 % | | <LOD |
| | 601-033-00-9 | 200-280-6 | 56-55-3 | | | | | | | | | |
| 28 | chrysene | | | | <0.02 | mg/kg | | <0.02 | mg/kg | <0.000002 % | | <LOD |
| | 601-048-00-0 | 205-923-4 | 218-01-9 | | | | | | | | | |
| 29 | benzo[b]fluoranthene | | | | <0.05 | mg/kg | | <0.05 | mg/kg | <0.000005 % | | <LOD |
| | 601-034-00-4 | 205-911-9 | 205-99-2 | | | | | | | | | |
| 30 | benzo[k]fluoranthene | | | | <0.02 | mg/kg | | <0.02 | mg/kg | <0.000002 % | | <LOD |
| | 601-036-00-5 | 205-916-6 | 207-08-9 | | | | | | | | | |
| 31 | benzo[a]pyrene; benzo[def]chrysene | | | | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | 601-032-00-3 | 200-028-5 | 50-32-8 | | | | | | | | | |
| 32 | indeno[123-cd]pyrene | | | | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | | 205-893-2 | 193-39-5 | | | | | | | | | |
| 33 | dibenz[a,h]anthracene | | | | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | 601-041-00-2 | 200-181-8 | 53-70-3 | | | | | | | | | |
| 34 | benzo[ghi]perylene | | | | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | | 205-883-8 | 191-24-2 | | | | | | | | | |
| Total: | | | | | | | | | | 0.048 % | | |

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 Determinand - 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

Classification of sample: 57629/TP#2-1

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

Sample details

| | |
|-------------------------|---|
| Sample Name: | LoW Code: |
| 57629/TP#2-1 | Chapter: |
| Moisture content: | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| 35.1% | Entry: |
| (dry weight correction) | 17 05 04 (Soil and stones other than those mentioned in 17 05 03) |

Hazard properties

None identified


Determinands

Moisture content: 35.1% Dry Weight Moisture Correction applied (MC)

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|----|--|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | |
| 1 | pH | | | | 6.42 pH | | 6.42 pH | 6.42 pH | | |
| 2 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } | | | | <0.5 mg/kg | 1.884 | <0.942 mg/kg | <0.0000942 % | | <LOD |
| | 006-007-00-5 | | | | | | | | | |
| 3 | phenol | | | | <0.01 mg/kg | | <0.01 mg/kg | <0.000001 % | | <LOD |
| | 604-001-00-2 | 203-632-7 | 108-95-2 | | | | | | | |
| 4 | antimony { antimony trioxide } | | | | 3 mg/kg | 1.197 | 2.658 mg/kg | 0.000266 % | ✓ | |
| | 051-005-00-X | 215-175-0 | 1309-64-4 | | | | | | | |
| 5 | arsenic { arsenic trioxide } | | | | 8.2 mg/kg | 1.32 | 8.014 mg/kg | 0.000801 % | ✓ | |
| | 033-003-00-0 | 215-481-4 | 1327-53-3 | | | | | | | |
| 6 | barium { barium sulfate } | | | | 129 mg/kg | 1.7 | 162.278 mg/kg | 0.0162 % | ✓ | |
| | | 231-784-4 | 7727-43-7 | | | | | | | |
| 7 | cadmium { cadmium sulfide } | | | 1 | 0.3 mg/kg | 1.285 | 0.285 mg/kg | 0.0000222 % | ✓ | |
| | 048-010-00-4 | 215-147-8 | 1306-23-6 | | | | | | | |
| 8 | chromium in chromium(III) compounds { chromium(III) oxide } | | | | 31 mg/kg | 1.462 | 33.537 mg/kg | 0.00335 % | ✓ | |
| | | 215-160-9 | 1308-38-9 | | | | | | | |
| 9 | copper { dicopper oxide; copper (I) oxide } | | | | 17 mg/kg | 1.126 | 14.167 mg/kg | 0.00142 % | ✓ | |
| | 029-002-00-X | 215-270-7 | 1317-39-1 | | | | | | | |
| 10 | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } | | | 1 | 47 mg/kg | | 34.789 mg/kg | 0.00348 % | ✓ | |
| | 082-001-00-6 | | | | | | | | | |
| 11 | mercury { mercury dichloride } | | | | <0.1 mg/kg | 1.353 | <0.135 mg/kg | <0.0000135 % | | <LOD |
| | 080-010-00-X | 231-299-8 | 7487-94-7 | | | | | | | |
| 12 | nickel { nickel dihydroxide } | | | | 19.4 mg/kg | 1.579 | 22.681 mg/kg | 0.00227 % | ✓ | |
| | 028-008-00-X | 235-008-5 [1] 234-348-1 [2] | 12054-48-7 [1] 11113-74-9 [2] | | | | | | | |
| 13 | selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } | | | | 2 mg/kg | 2.554 | 3.78 mg/kg | 0.000378 % | ✓ | |
| | 034-002-00-8 | | | | | | | | | |

| # | Determinand | | | CLP Note | User entered data | | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|--------|--|--------------------------------|---|----------|-------------------|-------|--------------|----------------|-------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | | |
| 14 | vanadium { divanadium pentaoxide; vanadium pentoxide } | | | | 37 | mg/kg | 1.785 | 48.891 | mg/kg | 0.00489 % | ✓ | |
| | 023-001-00-8 | 215-239-8 | 1314-62-1 | | | | | | | | | |
| 15 | boron { boron tribromide/trichloride/trifluoride (combined) } | | | | 1.1 | mg/kg | 13.43 | 10.935 | mg/kg | 0.00109 % | ✓ | |
| | | | 10294-33-4, 10294-34-5, 7637-07-2 | | | | | | | | | |
| 16 | zinc { zinc sulphate } | | | | 96 | mg/kg | 2.469 | 175.464 | mg/kg | 0.0175 % | ✓ | |
| | 030-006-00-9 | 231-793-3 [1] 231-793-3 [2] | 7446-19-7 [1] 7733-02-0 [2] | | | | | | | | | |
| 17 | chromium in chromium(VI) compounds { chromium(VI) oxide } | | | | <0.3 | mg/kg | 1.923 | <0.577 | mg/kg | <0.0000577 % | | <LOD |
| | 024-001-00-0 | 215-607-8 | 1333-82-0 | | | | | | | | | |
| 18 | TPH (C6 to C40) petroleum group | | | | <52 | mg/kg | | <52 | mg/kg | <0.0052 % | | <LOD |
| | | | TPH | | | | | | | | | |
| 19 | naphthalene | | | | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | 601-052-00-2 | 202-049-5 | 91-20-3 | | | | | | | | | |
| 20 | acenaphthylene | | | | <0.03 | mg/kg | | <0.03 | mg/kg | <0.000003 % | | <LOD |
| | | 205-917-1 | 208-96-8 | | | | | | | | | |
| 21 | acenaphthene | | | | <0.05 | mg/kg | | <0.05 | mg/kg | <0.000005 % | | <LOD |
| | | 201-469-6 | 83-32-9 | | | | | | | | | |
| 22 | fluorene | | | | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | | 201-695-5 | 86-73-7 | | | | | | | | | |
| 23 | phenanthrene | | | | <0.03 | mg/kg | | <0.03 | mg/kg | <0.000003 % | | <LOD |
| | | 201-581-5 | 85-01-8 | | | | | | | | | |
| 24 | anthracene | | | | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | | 204-371-1 | 120-12-7 | | | | | | | | | |
| 25 | fluoranthene | | | | 0.07 | mg/kg | | 0.0518 | mg/kg | 0.00000518 % | ✓ | |
| | | 205-912-4 | 206-44-0 | | | | | | | | | |
| 26 | pyrene | | | | 0.05 | mg/kg | | 0.037 | mg/kg | 0.0000037 % | ✓ | |
| | | 204-927-3 | 129-00-0 | | | | | | | | | |
| 27 | benzo[a]anthracene | | | | <0.06 | mg/kg | | <0.06 | mg/kg | <0.000006 % | | <LOD |
| | 601-033-00-9 | 200-280-6 | 56-55-3 | | | | | | | | | |
| 28 | chrysene | | | | 0.04 | mg/kg | | 0.0296 | mg/kg | 0.00000296 % | ✓ | |
| | 601-048-00-0 | 205-923-4 | 218-01-9 | | | | | | | | | |
| 29 | benzo[b]fluoranthene | | | | <0.05 | mg/kg | | <0.05 | mg/kg | <0.000005 % | | <LOD |
| | 601-034-00-4 | 205-911-9 | 205-99-2 | | | | | | | | | |
| 30 | benzo[k]fluoranthene | | | | <0.02 | mg/kg | | <0.02 | mg/kg | <0.000002 % | | <LOD |
| | 601-036-00-5 | 205-916-6 | 207-08-9 | | | | | | | | | |
| 31 | benzo[a]pyrene; benzo[def]chrysene | | | | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | 601-032-00-3 | 200-028-5 | 50-32-8 | | | | | | | | | |
| 32 | indeno[123-cd]pyrene | | | | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | | 205-893-2 | 193-39-5 | | | | | | | | | |
| 33 | dibenz[a,h]anthracene | | | | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | 601-041-00-2 | 200-181-8 | 53-70-3 | | | | | | | | | |
| 34 | benzo[ghi]perylene | | | | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | | 205-883-8 | 191-24-2 | | | | | | | | | |
| Total: | | | | | | | | | | 0.0572 % | | |

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 Determinand - 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

Classification of sample: 57629/TP#2-2

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

Sample details

| | |
|-------------------------|---|
| Sample Name: | LoW Code: |
| 57629/TP#2-2 | Chapter: |
| Moisture content: | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| 36.4% | Entry: |
| (dry weight correction) | 17 05 04 (Soil and stones other than those mentioned in 17 05 03) |

Hazard properties

None identified

Determinands

Moisture content: 36.4% Dry Weight Moisture Correction applied (MC)

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|----|--|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | |
| 1 | pH | | | | 5.87 pH | | 5.87 pH | 5.87 pH | | |
| 2 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } | | | | <0.5 mg/kg | 1.884 | <0.942 mg/kg | <0.0000942 % | | <LOD |
| | 006-007-00-5 | | | | | | | | | |
| 3 | phenol | | | | <0.01 mg/kg | | <0.01 mg/kg | <0.000001 % | | <LOD |
| | 604-001-00-2 | 203-632-7 | 108-95-2 | | | | | | | |
| 4 | antimony { antimony trioxide } | | | | 8 mg/kg | 1.197 | 7.021 mg/kg | 0.000702 % | ✓ | |
| | 051-005-00-X | 215-175-0 | 1309-64-4 | | | | | | | |
| 5 | arsenic { arsenic trioxide } | | | | 2.5 mg/kg | 1.32 | 2.42 mg/kg | 0.000242 % | ✓ | |
| | 033-003-00-0 | 215-481-4 | 1327-53-3 | | | | | | | |
| 6 | barium { barium sulfate } | | | | 57 mg/kg | 1.7 | 71.021 mg/kg | 0.0071 % | ✓ | |
| | | 231-784-4 | 7727-43-7 | | | | | | | |
| 7 | cadmium { cadmium sulfide } | | | 1 | <0.1 mg/kg | 1.285 | <0.129 mg/kg | <0.00001 % | | <LOD |
| | 048-010-00-4 | 215-147-8 | 1306-23-6 | | | | | | | |
| 8 | chromium in chromium(III) compounds { chromium(III) oxide } | | | | 27.1 mg/kg | 1.462 | 29.038 mg/kg | 0.0029 % | ✓ | |
| | | 215-160-9 | 1308-38-9 | | | | | | | |
| 9 | copper { dicopper oxide; copper (I) oxide } | | | | 34 mg/kg | 1.126 | 28.065 mg/kg | 0.00281 % | ✓ | |
| | 029-002-00-X | 215-270-7 | 1317-39-1 | | | | | | | |
| 10 | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } | | | 1 | 27 mg/kg | | 19.795 mg/kg | 0.00198 % | ✓ | |
| | 082-001-00-6 | | | | | | | | | |
| 11 | mercury { mercury dichloride } | | | | <0.1 mg/kg | 1.353 | <0.135 mg/kg | <0.0000135 % | | <LOD |
| | 080-010-00-X | 231-299-8 | 7487-94-7 | | | | | | | |
| 12 | nickel { nickel dihydroxide } | | | | 28.8 mg/kg | 1.579 | 33.35 mg/kg | 0.00334 % | ✓ | |
| | 028-008-00-X | 235-008-5 [1] 234-348-1 [2] | 12054-48-7 [1] 11113-74-9 [2] | | | | | | | |
| 13 | selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } | | | | 2 mg/kg | 2.554 | 3.744 mg/kg | 0.000374 % | ✓ | |
| | 034-002-00-8 | | | | | | | | | |

| # | Determinand | | | CLP Note | User entered data | | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|--------|---|--------------|-----------------------------------|-----------------------------|-------------------|-------|--------------|----------------|-------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | | |
| 14 | vanadium { divanadium pentaoxide; vanadium pentoxide } | 023-001-00-8 | 215-239-8 | 1314-62-1 | 64 | mg/kg | 1.785 | 83.762 | mg/kg | 0.00838 % | ✓ | |
| 15 | boron { boron tribromide/trichloride/trifluoride (combined) } | | 10294-33-4, 10294-34-5, 7637-07-2 | | 0.6 | mg/kg | 13.43 | 5.908 | mg/kg | 0.000591 % | ✓ | |
| 16 | zinc { zinc sulphate } | 030-006-00-9 | 231-793-3 [1] 231-793-3 [2] | 7446-19-7 [1] 7733-02-0 [2] | 150 | mg/kg | 2.469 | 271.55 | mg/kg | 0.0272 % | ✓ | |
| 17 | chromium in chromium(VI) compounds { chromium(VI) oxide } | 024-001-00-0 | 215-607-8 | 1333-82-0 | <0.3 | mg/kg | 1.923 | <0.577 | mg/kg | <0.0000577 % | | <LOD |
| 18 | TPH (C6 to C40) petroleum group | | TPH | | <52 | mg/kg | | <52 | mg/kg | <0.0052 % | | <LOD |
| 19 | naphthalene | 601-052-00-2 | 202-049-5 | 91-20-3 | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| 20 | acenaphthylene | | 205-917-1 | 208-96-8 | <0.03 | mg/kg | | <0.03 | mg/kg | <0.000003 % | | <LOD |
| 21 | acenaphthene | | 201-469-6 | 83-32-9 | <0.05 | mg/kg | | <0.05 | mg/kg | <0.000005 % | | <LOD |
| 22 | fluorene | | 201-695-5 | 86-73-7 | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| 23 | phenanthrene | | 201-581-5 | 85-01-8 | <0.03 | mg/kg | | <0.03 | mg/kg | <0.000003 % | | <LOD |
| 24 | anthracene | | 204-371-1 | 120-12-7 | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| 25 | fluoranthene | | 205-912-4 | 206-44-0 | <0.03 | mg/kg | | <0.03 | mg/kg | <0.000003 % | | <LOD |
| 26 | pyrene | | 204-927-3 | 129-00-0 | <0.03 | mg/kg | | <0.03 | mg/kg | <0.000003 % | | <LOD |
| 27 | benzo[a]anthracene | 601-033-00-9 | 200-280-6 | 56-55-3 | <0.06 | mg/kg | | <0.06 | mg/kg | <0.000006 % | | <LOD |
| 28 | chrysene | 601-048-00-0 | 205-923-4 | 218-01-9 | <0.02 | mg/kg | | <0.02 | mg/kg | <0.000002 % | | <LOD |
| 29 | benzo[b]fluoranthene | 601-034-00-4 | 205-911-9 | 205-99-2 | <0.05 | mg/kg | | <0.05 | mg/kg | <0.000005 % | | <LOD |
| 30 | benzo[k]fluoranthene | 601-036-00-5 | 205-916-6 | 207-08-9 | <0.02 | mg/kg | | <0.02 | mg/kg | <0.000002 % | | <LOD |
| 31 | benzo[a]pyrene; benzo[def]chrysene | 601-032-00-3 | 200-028-5 | 50-32-8 | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| 32 | indeno[123-cd]pyrene | | 205-893-2 | 193-39-5 | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| 33 | dibenz[a,h]anthracene | 601-041-00-2 | 200-181-8 | 53-70-3 | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| 34 | benzo[ghi]perylene | | 205-883-8 | 191-24-2 | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| Total: | | | | | | | | | | 0.061 % | | |

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 Determinand - 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

Classification of sample: 57629/TP#3-1

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

Sample details

| | |
|-------------------------|---|
| Sample Name: | LoW Code: |
| 57629/TP#3-1 | Chapter: |
| Moisture content: | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| 50.8% | Entry: |
| (dry weight correction) | 17 05 04 (Soil and stones other than those mentioned in 17 05 03) |

Hazard properties

None identified


Determinands

Moisture content: 50.8% Dry Weight Moisture Correction applied (MC)

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|----|--|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | |
| 1 | pH | | | | 6.29 pH | | 6.29 pH | 6.29 pH | | |
| 2 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } | | | | <0.5 mg/kg | 1.884 | <0.942 mg/kg | <0.0000942 % | | <LOD |
| | 006-007-00-5 | | | | | | | | | |
| 3 | phenol | | | | <0.01 mg/kg | | <0.01 mg/kg | <0.000001 % | | <LOD |
| | 604-001-00-2 | 203-632-7 | 108-95-2 | | | | | | | |
| 4 | antimony { antimony trioxide } | | | | 5 mg/kg | 1.197 | 3.969 mg/kg | 0.000397 % | ✓ | |
| | 051-005-00-X | 215-175-0 | 1309-64-4 | | | | | | | |
| 5 | arsenic { arsenic trioxide } | | | | 43.6 mg/kg | 1.32 | 38.174 mg/kg | 0.00382 % | ✓ | |
| | 033-003-00-0 | 215-481-4 | 1327-53-3 | | | | | | | |
| 6 | barium { barium sulfate } | | | | 282 mg/kg | 1.7 | 317.814 mg/kg | 0.0318 % | ✓ | |
| | | 231-784-4 | 7727-43-7 | | | | | | | |
| 7 | cadmium { cadmium sulfide } | | | 1 | 0.7 mg/kg | 1.285 | 0.597 mg/kg | 0.0000464 % | ✓ | |
| | 048-010-00-4 | 215-147-8 | 1306-23-6 | | | | | | | |
| 8 | chromium in chromium(III) compounds { chromium(III) oxide } | | | | 30.5 mg/kg | 1.462 | 29.561 mg/kg | 0.00296 % | ✓ | |
| | | 215-160-9 | 1308-38-9 | | | | | | | |
| 9 | copper { dicopper oxide; copper (I) oxide } | | | | 150 mg/kg | 1.126 | 111.992 mg/kg | 0.0112 % | ✓ | |
| | 029-002-00-X | 215-270-7 | 1317-39-1 | | | | | | | |
| 10 | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } | | | 1 | 146 mg/kg | | 96.817 mg/kg | 0.00968 % | ✓ | |
| | 082-001-00-6 | | | | | | | | | |
| 11 | mercury { mercury dichloride } | | | | 0.1 mg/kg | 1.353 | 0.0898 mg/kg | 0.00000898 % | ✓ | |
| | 080-010-00-X | 231-299-8 | 7487-94-7 | | | | | | | |
| 12 | nickel { nickel dihydroxide } | | | | 29 mg/kg | 1.579 | 30.375 mg/kg | 0.00304 % | ✓ | |
| | 028-008-00-X | 235-008-5 [1] 234-348-1 [2] | 12054-48-7 [1] 11113-74-9 [2] | | | | | | | |
| 13 | selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } | | | | 2 mg/kg | 2.554 | 3.387 mg/kg | 0.000339 % | ✓ | |
| | 034-002-00-8 | | | | | | | | | |

| # | Determinand | | | CLP Note | User entered data | | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|--------|---|--------------|-----------------------------------|-----------------------------|-------------------|-------|--------------|----------------|-------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | | |
| 14 | vanadium { divanadium pentaoxide; vanadium pentoxide } | 023-001-00-8 | 215-239-8 | 1314-62-1 | 50 | mg/kg | 1.785 | 59.19 | mg/kg | 0.00592 % | ✓ | |
| 15 | boron { boron tribromide/trichloride/trifluoride (combined) } | | 10294-33-4, 10294-34-5, 7637-07-2 | | 2.8 | mg/kg | 13.43 | 24.936 | mg/kg | 0.00249 % | ✓ | |
| 16 | zinc { zinc sulphate } | 030-006-00-9 | 231-793-3 [1] 231-793-3 [2] | 7446-19-7 [1] 7733-02-0 [2] | 202 | mg/kg | 2.469 | 330.768 | mg/kg | 0.0331 % | ✓ | |
| 17 | chromium in chromium(VI) compounds { chromium(VI) oxide } | 024-001-00-0 | 215-607-8 | 1333-82-0 | <0.3 | mg/kg | 1.923 | <0.577 | mg/kg | <0.0000577 % | | <LOD |
| 18 | TPH (C6 to C40) petroleum group | | TPH | | <52 | mg/kg | | <52 | mg/kg | <0.0052 % | | <LOD |
| 19 | naphthalene | 601-052-00-2 | 202-049-5 | 91-20-3 | 0.15 | mg/kg | | 0.0995 | mg/kg | 0.00000995 % | ✓ | |
| 20 | acenaphthylene | | 205-917-1 | 208-96-8 | 0.08 | mg/kg | | 0.0531 | mg/kg | 0.00000531 % | ✓ | |
| 21 | acenaphthene | | 201-469-6 | 83-32-9 | <0.05 | mg/kg | | <0.05 | mg/kg | <0.000005 % | | <LOD |
| 22 | fluorene | | 201-695-5 | 86-73-7 | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| 23 | phenanthrene | | 201-581-5 | 85-01-8 | 0.39 | mg/kg | | 0.259 | mg/kg | 0.0000259 % | ✓ | |
| 24 | anthracene | | 204-371-1 | 120-12-7 | 0.11 | mg/kg | | 0.0729 | mg/kg | 0.00000729 % | ✓ | |
| 25 | fluoranthene | | 205-912-4 | 206-44-0 | 0.75 | mg/kg | | 0.497 | mg/kg | 0.0000497 % | ✓ | |
| 26 | pyrene | | 204-927-3 | 129-00-0 | 0.66 | mg/kg | | 0.438 | mg/kg | 0.0000438 % | ✓ | |
| 27 | benzo[a]anthracene | 601-033-00-9 | 200-280-6 | 56-55-3 | 0.32 | mg/kg | | 0.212 | mg/kg | 0.0000212 % | ✓ | |
| 28 | chrysene | 601-048-00-0 | 205-923-4 | 218-01-9 | 0.38 | mg/kg | | 0.252 | mg/kg | 0.0000252 % | ✓ | |
| 29 | benzo[b]fluoranthene | 601-034-00-4 | 205-911-9 | 205-99-2 | 0.5 | mg/kg | | 0.332 | mg/kg | 0.0000332 % | ✓ | |
| 30 | benzo[k]fluoranthene | 601-036-00-5 | 205-916-6 | 207-08-9 | 0.19 | mg/kg | | 0.126 | mg/kg | 0.0000126 % | ✓ | |
| 31 | benzo[a]pyrene; benzo[def]chrysene | 601-032-00-3 | 200-028-5 | 50-32-8 | 0.35 | mg/kg | | 0.232 | mg/kg | 0.0000232 % | ✓ | |
| 32 | indeno[123-cd]pyrene | | 205-893-2 | 193-39-5 | 0.26 | mg/kg | | 0.172 | mg/kg | 0.0000172 % | ✓ | |
| 33 | dibenz[a,h]anthracene | 601-041-00-2 | 200-181-8 | 53-70-3 | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| 34 | benzo[ghi]perylene | | 205-883-8 | 191-24-2 | 0.24 | mg/kg | | 0.159 | mg/kg | 0.0000159 % | ✓ | |
| Total: | | | | | | | | | | 0.11 % | | |

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 Determinand - 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

Classification of sample: 57629/TP#3-2

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

Sample details

| | |
|-------------------------|---|
| Sample Name: | LoW Code: |
| 57629/TP#3-2 | Chapter: |
| Moisture content: | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| 30.5% | Entry: |
| (dry weight correction) | 17 05 04 (Soil and stones other than those mentioned in 17 05 03) |

Hazard properties

None identified


Determinands

Moisture content: 30.5% Dry Weight Moisture Correction applied (MC)

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|----|--|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | |
| 1 | pH | | | | 6.86 pH | | 6.86 pH | 6.86 pH | | |
| 2 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } | | | | <0.5 mg/kg | 1.884 | <0.942 mg/kg | <0.0000942 % | | <LOD |
| | 006-007-00-5 | | | | | | | | | |
| 3 | phenol | | | | <0.01 mg/kg | | <0.01 mg/kg | <0.000001 % | | <LOD |
| | 604-001-00-2 | 203-632-7 | 108-95-2 | | | | | | | |
| 4 | antimony { antimony trioxide } | | | | 2 mg/kg | 1.197 | 1.835 mg/kg | 0.000183 % | ✓ | |
| | 051-005-00-X | 215-175-0 | 1309-64-4 | | | | | | | |
| 5 | arsenic { arsenic trioxide } | | | | 3 mg/kg | 1.32 | 3.035 mg/kg | 0.000304 % | ✓ | |
| | 033-003-00-0 | 215-481-4 | 1327-53-3 | | | | | | | |
| 6 | barium { barium sulfate } | | | | 51 mg/kg | 1.7 | 66.418 mg/kg | 0.00664 % | ✓ | |
| | | 231-784-4 | 7727-43-7 | | | | | | | |
| 7 | cadmium { cadmium sulfide } | | | 1 | <0.1 mg/kg | 1.285 | <0.129 mg/kg | <0.00001 % | | <LOD |
| | 048-010-00-4 | 215-147-8 | 1306-23-6 | | | | | | | |
| 8 | chromium in chromium(III) compounds { chromium(III) oxide } | | | | 29 mg/kg | 1.462 | 32.479 mg/kg | 0.00325 % | ✓ | |
| | | 215-160-9 | 1308-38-9 | | | | | | | |
| 9 | copper { dicopper oxide; copper (I) oxide } | | | | 28 mg/kg | 1.126 | 24.157 mg/kg | 0.00242 % | ✓ | |
| | 029-002-00-X | 215-270-7 | 1317-39-1 | | | | | | | |
| 10 | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } | | | 1 | 11 mg/kg | | 8.429 mg/kg | 0.000843 % | ✓ | |
| | 082-001-00-6 | | | | | | | | | |
| 11 | mercury { mercury dichloride } | | | | <0.1 mg/kg | 1.353 | <0.135 mg/kg | <0.0000135 % | | <LOD |
| | 080-010-00-X | 231-299-8 | 7487-94-7 | | | | | | | |
| 12 | nickel { nickel dihydroxide } | | | | 38.3 mg/kg | 1.579 | 46.356 mg/kg | 0.00464 % | ✓ | |
| | 028-008-00-X | 235-008-5 [1] 234-348-1 [2] | 12054-48-7 [1] 11113-74-9 [2] | | | | | | | |
| 13 | selenium { selenium compounds with the exception of cadmium selenosulfide and those specified elsewhere in this Annex } | | | | <1 mg/kg | 2.554 | <2.554 mg/kg | <0.000255 % | | <LOD |
| | 034-002-00-8 | | | | | | | | | |

| # | Determinand | | | CLP Note | User entered data | | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|--------|---|--------------|-----------------------------------|-----------------------------|-------------------|-------|--------------|----------------|-------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | | |
| 14 | vanadium { divanadium pentaoxide; vanadium pentoxide } | 023-001-00-8 | 215-239-8 | 1314-62-1 | 25 | mg/kg | 1.785 | 34.199 | mg/kg | 0.00342 % | ✓ | |
| 15 | boron { boron tribromide/trichloride/trifluoride (combined) } | | 10294-33-4, 10294-34-5, 7637-07-2 | | 0.6 | mg/kg | 13.43 | 6.175 | mg/kg | 0.000617 % | ✓ | |
| 16 | zinc { zinc sulphate } | 030-006-00-9 | 231-793-3 [1] 231-793-3 [2] | 7446-19-7 [1] 7733-02-0 [2] | 89 | mg/kg | 2.469 | 168.404 | mg/kg | 0.0168 % | ✓ | |
| 17 | chromium in chromium(VI) compounds { chromium(VI) oxide } | 024-001-00-0 | 215-607-8 | 1333-82-0 | <0.3 | mg/kg | 1.923 | <0.577 | mg/kg | <0.0000577 % | | <LOD |
| 18 | TPH (C6 to C40) petroleum group | | TPH | | <52 | mg/kg | | <52 | mg/kg | <0.0052 % | | <LOD |
| 19 | naphthalene | 601-052-00-2 | 202-049-5 | 91-20-3 | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| 20 | acenaphthylene | | 205-917-1 | 208-96-8 | <0.03 | mg/kg | | <0.03 | mg/kg | <0.000003 % | | <LOD |
| 21 | acenaphthene | | 201-469-6 | 83-32-9 | <0.05 | mg/kg | | <0.05 | mg/kg | <0.000005 % | | <LOD |
| 22 | fluorene | | 201-695-5 | 86-73-7 | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| 23 | phenanthrene | | 201-581-5 | 85-01-8 | <0.03 | mg/kg | | <0.03 | mg/kg | <0.000003 % | | <LOD |
| 24 | anthracene | | 204-371-1 | 120-12-7 | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| 25 | fluoranthene | | 205-912-4 | 206-44-0 | <0.03 | mg/kg | | <0.03 | mg/kg | <0.000003 % | | <LOD |
| 26 | pyrene | | 204-927-3 | 129-00-0 | <0.03 | mg/kg | | <0.03 | mg/kg | <0.000003 % | | <LOD |
| 27 | benzo[a]anthracene | 601-033-00-9 | 200-280-6 | 56-55-3 | <0.06 | mg/kg | | <0.06 | mg/kg | <0.000006 % | | <LOD |
| 28 | chrysene | 601-048-00-0 | 205-923-4 | 218-01-9 | <0.02 | mg/kg | | <0.02 | mg/kg | <0.000002 % | | <LOD |
| 29 | benzo[b]fluoranthene | 601-034-00-4 | 205-911-9 | 205-99-2 | <0.05 | mg/kg | | <0.05 | mg/kg | <0.000005 % | | <LOD |
| 30 | benzo[k]fluoranthene | 601-036-00-5 | 205-916-6 | 207-08-9 | <0.02 | mg/kg | | <0.02 | mg/kg | <0.000002 % | | <LOD |
| 31 | benzo[a]pyrene; benzo[def]chrysene | 601-032-00-3 | 200-028-5 | 50-32-8 | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| 32 | indeno[123-cd]pyrene | | 205-893-2 | 193-39-5 | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| 33 | dibenz[a,h]anthracene | 601-041-00-2 | 200-181-8 | 53-70-3 | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| 34 | benzo[ghi]perylene | | 205-883-8 | 191-24-2 | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| Total: | | | | | | | | | | 0.0448 % | | |

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 Determinand - 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

Classification of sample: 57629/TP#4-1

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

Sample details

| | |
|-------------------------|---|
| Sample Name: | LoW Code: |
| 57629/TP#4-1 | Chapter: |
| Moisture content: | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| 48.2% | Entry: |
| (dry weight correction) | 17 05 04 (Soil and stones other than those mentioned in 17 05 03) |

Hazard properties

None identified


Determinands

Moisture content: 48.2% Dry Weight Moisture Correction applied (MC)

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|----|--|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | |
| 1 | pH | | | | 6.43 pH | | 6.43 pH | 6.43 pH | | |
| 2 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } | | | | <0.5 mg/kg | 1.884 | <0.942 mg/kg | <0.0000942 % | | <LOD |
| | 006-007-00-5 | | | | | | | | | |
| 3 | phenol | | | | <0.01 mg/kg | | <0.01 mg/kg | <0.000001 % | | <LOD |
| | 604-001-00-2 | 203-632-7 | 108-95-2 | | | | | | | |
| 4 | antimony { antimony trioxide } | | | | 3 mg/kg | 1.197 | 2.423 mg/kg | 0.000242 % | ✓ | |
| | 051-005-00-X | 215-175-0 | 1309-64-4 | | | | | | | |
| 5 | arsenic { arsenic trioxide } | | | | 13.1 mg/kg | 1.32 | 11.671 mg/kg | 0.00117 % | ✓ | |
| | 033-003-00-0 | 215-481-4 | 1327-53-3 | | | | | | | |
| 6 | barium { barium sulfate } | | | | 208 mg/kg | 1.7 | 238.529 mg/kg | 0.0239 % | ✓ | |
| | | 231-784-4 | 7727-43-7 | | | | | | | |
| 7 | cadmium { cadmium sulfide } | | | 1 | 0.4 mg/kg | 1.285 | 0.347 mg/kg | 0.000027 % | ✓ | |
| | 048-010-00-4 | 215-147-8 | 1306-23-6 | | | | | | | |
| 8 | chromium in chromium(III) compounds { chromium(III) oxide } | | | | 34.5 mg/kg | 1.462 | 34.024 mg/kg | 0.0034 % | ✓ | |
| | | 215-160-9 | 1308-38-9 | | | | | | | |
| 9 | copper { dicopper oxide; copper (I) oxide } | | | | 13 mg/kg | 1.126 | 9.876 mg/kg | 0.000988 % | ✓ | |
| | 029-002-00-X | 215-270-7 | 1317-39-1 | | | | | | | |
| 10 | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } | | | 1 | 64 mg/kg | | 43.185 mg/kg | 0.00432 % | ✓ | |
| | 082-001-00-6 | | | | | | | | | |
| 11 | mercury { mercury dichloride } | | | | <0.1 mg/kg | 1.353 | <0.135 mg/kg | <0.0000135 % | | <LOD |
| | 080-010-00-X | 231-299-8 | 7487-94-7 | | | | | | | |
| 12 | nickel { nickel dihydroxide } | | | | 24.5 mg/kg | 1.579 | 26.112 mg/kg | 0.00261 % | ✓ | |
| | 028-008-00-X | 235-008-5 [1] 234-348-1 [2] | 12054-48-7 [1] 11113-74-9 [2] | | | | | | | |
| 13 | selenium { selenium compounds with the exception of cadmium selenosulfide and those specified elsewhere in this Annex } | | | | 4 mg/kg | 2.554 | 6.892 mg/kg | 0.000689 % | ✓ | |
| | 034-002-00-8 | | | | | | | | | |

| # | Determinand | | | CLP Note | User entered data | | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|--------|---|--------------|-----------------------------------|-----------------------------|-------------------|-------|--------------|----------------|-------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | | |
| 14 | vanadium { divanadium pentaoxide; vanadium pentoxide } | 023-001-00-8 | 215-239-8 | 1314-62-1 | 40 | mg/kg | 1.785 | 48.183 | mg/kg | 0.00482 % | ✓ | |
| 15 | boron { boron tribromide/trichloride/trifluoride (combined) } | | 10294-33-4, 10294-34-5, 7637-07-2 | | 1.6 | mg/kg | 13.43 | 14.499 | mg/kg | 0.00145 % | ✓ | |
| 16 | zinc { zinc sulphate } | 030-006-00-9 | 231-793-3 [1] 231-793-3 [2] | 7446-19-7 [1] 7733-02-0 [2] | 135 | mg/kg | 2.469 | 224.936 | mg/kg | 0.0225 % | ✓ | |
| 17 | chromium in chromium(VI) compounds { chromium(VI) oxide } | 024-001-00-0 | 215-607-8 | 1333-82-0 | <0.3 | mg/kg | 1.923 | <0.577 | mg/kg | <0.0000577 % | | <LOD |
| 18 | TPH (C6 to C40) petroleum group | | TPH | | <52 | mg/kg | | <52 | mg/kg | <0.0052 % | | <LOD |
| 19 | naphthalene | 601-052-00-2 | 202-049-5 | 91-20-3 | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| 20 | acenaphthylene | | 205-917-1 | 208-96-8 | <0.03 | mg/kg | | <0.03 | mg/kg | <0.000003 % | | <LOD |
| 21 | acenaphthene | | 201-469-6 | 83-32-9 | <0.05 | mg/kg | | <0.05 | mg/kg | <0.000005 % | | <LOD |
| 22 | fluorene | | 201-695-5 | 86-73-7 | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| 23 | phenanthrene | | 201-581-5 | 85-01-8 | <0.03 | mg/kg | | <0.03 | mg/kg | <0.000003 % | | <LOD |
| 24 | anthracene | | 204-371-1 | 120-12-7 | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| 25 | fluoranthene | | 205-912-4 | 206-44-0 | 0.07 | mg/kg | | 0.0472 | mg/kg | 0.00000472 % | ✓ | |
| 26 | pyrene | | 204-927-3 | 129-00-0 | 0.07 | mg/kg | | 0.0472 | mg/kg | 0.00000472 % | ✓ | |
| 27 | benzo[a]anthracene | 601-033-00-9 | 200-280-6 | 56-55-3 | <0.06 | mg/kg | | <0.06 | mg/kg | <0.000006 % | | <LOD |
| 28 | chrysene | 601-048-00-0 | 205-923-4 | 218-01-9 | 0.04 | mg/kg | | 0.027 | mg/kg | 0.0000027 % | ✓ | |
| 29 | benzo[b]fluoranthene | 601-034-00-4 | 205-911-9 | 205-99-2 | <0.05 | mg/kg | | <0.05 | mg/kg | <0.000005 % | | <LOD |
| 30 | benzo[k]fluoranthene | 601-036-00-5 | 205-916-6 | 207-08-9 | <0.02 | mg/kg | | <0.02 | mg/kg | <0.000002 % | | <LOD |
| 31 | benzo[a]pyrene; benzo[def]chrysene | 601-032-00-3 | 200-028-5 | 50-32-8 | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| 32 | indeno[123-cd]pyrene | | 205-893-2 | 193-39-5 | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| 33 | dibenz[a,h]anthracene | 601-041-00-2 | 200-181-8 | 53-70-3 | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| 34 | benzo[ghi]perylene | | 205-883-8 | 191-24-2 | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| Total: | | | | | | | | | | 0.0715 % | | |

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 Determinand - 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

Classification of sample: 57629/TP#4-2

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

Sample details

| | |
|-------------------------|---|
| Sample Name: | LoW Code: |
| 57629/TP#4-2 | Chapter: |
| Moisture content: | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| 27% | Entry: |
| (dry weight correction) | 17 05 04 (Soil and stones other than those mentioned in 17 05 03) |

Hazard properties

None identified


Determinands

Moisture content: 27% Dry Weight Moisture Correction applied (MC)

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|----|--|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | |
| 1 | pH | | | | 5.21 pH | | 5.21 pH | 5.21 pH | | |
| 2 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } | | | | <0.5 mg/kg | 1.884 | <0.942 mg/kg | <0.0000942 % | | <LOD |
| | 006-007-00-5 | | | | | | | | | |
| 3 | phenol | | | | <0.01 mg/kg | | <0.01 mg/kg | <0.000001 % | | <LOD |
| | 604-001-00-2 | 203-632-7 | 108-95-2 | | | | | | | |
| 4 | antimony { antimony trioxide } | | | | 4 mg/kg | 1.197 | 3.77 mg/kg | 0.000377 % | ✓ | |
| | 051-005-00-X | 215-175-0 | 1309-64-4 | | | | | | | |
| 5 | arsenic { arsenic trioxide } | | | | <0.5 mg/kg | 1.32 | <0.66 mg/kg | <0.000066 % | | <LOD |
| | 033-003-00-0 | 215-481-4 | 1327-53-3 | | | | | | | |
| 6 | barium { barium sulfate } | | | | 59 mg/kg | 1.7 | 78.954 mg/kg | 0.0079 % | ✓ | |
| | | 231-784-4 | 7727-43-7 | | | | | | | |
| 7 | cadmium { cadmium sulfide } | | | 1 | <0.1 mg/kg | 1.285 | <0.129 mg/kg | <0.00001 % | | <LOD |
| | 048-010-00-4 | 215-147-8 | 1306-23-6 | | | | | | | |
| 8 | chromium in chromium(III) compounds { chromium(III) oxide } | | | | 29.7 mg/kg | 1.462 | 34.18 mg/kg | 0.00342 % | ✓ | |
| | | 215-160-9 | 1308-38-9 | | | | | | | |
| 9 | copper { dicopper oxide; copper (I) oxide } | | | | 24 mg/kg | 1.126 | 21.277 mg/kg | 0.00213 % | ✓ | |
| | 029-002-00-X | 215-270-7 | 1317-39-1 | | | | | | | |
| 10 | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } | | | 1 | 14 mg/kg | | 11.024 mg/kg | 0.0011 % | ✓ | |
| | 082-001-00-6 | | | | | | | | | |
| 11 | mercury { mercury dichloride } | | | | <0.1 mg/kg | 1.353 | <0.135 mg/kg | <0.0000135 % | | <LOD |
| | 080-010-00-X | 231-299-8 | 7487-94-7 | | | | | | | |
| 12 | nickel { nickel dihydroxide } | | | | 25.2 mg/kg | 1.579 | 31.341 mg/kg | 0.00313 % | ✓ | |
| | 028-008-00-X | 235-008-5 [1] 234-348-1 [2] | 12054-48-7 [1] 11113-74-9 [2] | | | | | | | |
| 13 | selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } | | | | <1 mg/kg | 2.554 | <2.554 mg/kg | <0.000255 % | | <LOD |
| | 034-002-00-8 | | | | | | | | | |

| # | Determinand | | | CLP Note | User entered data | | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|--------|--|--------------------------------|---|----------|-------------------|-------|--------------|----------------|-------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | | |
| 14 | vanadium { divanadium pentaoxide; vanadium pentoxide } | | | | 38 | mg/kg | 1.785 | 53.415 | mg/kg | 0.00534 % | ✓ | |
| | 023-001-00-8 | 215-239-8 | 1314-62-1 | | | | | | | | | |
| 15 | boron { boron tribromide/trichloride/trifluoride (combined) } | | | | 0.5 | mg/kg | 13.43 | 5.287 | mg/kg | 0.000529 % | ✓ | |
| | | | 10294-33-4, 10294-34-5, 7637-07-2 | | | | | | | | | |
| 16 | zinc { zinc sulphate } | | | | 125 | mg/kg | 2.469 | 243.041 | mg/kg | 0.0243 % | ✓ | |
| | 030-006-00-9 | 231-793-3 [1] 231-793-3 [2] | 7446-19-7 [1] 7733-02-0 [2] | | | | | | | | | |
| 17 | chromium in chromium(VI) compounds { chromium(VI) oxide } | | | | <0.3 | mg/kg | 1.923 | <0.577 | mg/kg | <0.0000577 % | | <LOD |
| | 024-001-00-0 | 215-607-8 | 1333-82-0 | | | | | | | | | |
| 18 | TPH (C6 to C40) petroleum group | | | | <52 | mg/kg | | <52 | mg/kg | <0.0052 % | | <LOD |
| | | | TPH | | | | | | | | | |
| 19 | naphthalene | | | | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | 601-052-00-2 | 202-049-5 | 91-20-3 | | | | | | | | | |
| 20 | acenaphthylene | | | | <0.03 | mg/kg | | <0.03 | mg/kg | <0.000003 % | | <LOD |
| | | 205-917-1 | 208-96-8 | | | | | | | | | |
| 21 | acenaphthene | | | | <0.05 | mg/kg | | <0.05 | mg/kg | <0.000005 % | | <LOD |
| | | 201-469-6 | 83-32-9 | | | | | | | | | |
| 22 | fluorene | | | | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | | 201-695-5 | 86-73-7 | | | | | | | | | |
| 23 | phenanthrene | | | | <0.03 | mg/kg | | <0.03 | mg/kg | <0.000003 % | | <LOD |
| | | 201-581-5 | 85-01-8 | | | | | | | | | |
| 24 | anthracene | | | | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | | 204-371-1 | 120-12-7 | | | | | | | | | |
| 25 | fluoranthene | | | | <0.03 | mg/kg | | <0.03 | mg/kg | <0.000003 % | | <LOD |
| | | 205-912-4 | 206-44-0 | | | | | | | | | |
| 26 | pyrene | | | | <0.03 | mg/kg | | <0.03 | mg/kg | <0.000003 % | | <LOD |
| | | 204-927-3 | 129-00-0 | | | | | | | | | |
| 27 | benzo[a]anthracene | | | | <0.06 | mg/kg | | <0.06 | mg/kg | <0.000006 % | | <LOD |
| | 601-033-00-9 | 200-280-6 | 56-55-3 | | | | | | | | | |
| 28 | chrysene | | | | <0.02 | mg/kg | | <0.02 | mg/kg | <0.000002 % | | <LOD |
| | 601-048-00-0 | 205-923-4 | 218-01-9 | | | | | | | | | |
| 29 | benzo[b]fluoranthene | | | | <0.05 | mg/kg | | <0.05 | mg/kg | <0.000005 % | | <LOD |
| | 601-034-00-4 | 205-911-9 | 205-99-2 | | | | | | | | | |
| 30 | benzo[k]fluoranthene | | | | <0.02 | mg/kg | | <0.02 | mg/kg | <0.000002 % | | <LOD |
| | 601-036-00-5 | 205-916-6 | 207-08-9 | | | | | | | | | |
| 31 | benzo[a]pyrene; benzo[def]chrysene | | | | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | 601-032-00-3 | 200-028-5 | 50-32-8 | | | | | | | | | |
| 32 | indeno[123-cd]pyrene | | | | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | | 205-893-2 | 193-39-5 | | | | | | | | | |
| 33 | dibenz[a,h]anthracene | | | | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | 601-041-00-2 | 200-181-8 | 53-70-3 | | | | | | | | | |
| 34 | benzo[ghi]perylene | | | | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | | 205-883-8 | 191-24-2 | | | | | | | | | |
| Total: | | | | | | | | | | 0.054 % | | |

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 Determinand - 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

Classification of sample: 57629/TP#5-1

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

Sample details

| | |
|-------------------------|---|
| Sample Name: | LoW Code: |
| 57629/TP#5-1 | Chapter: |
| Moisture content: | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| 34.6% | Entry: |
| (dry weight correction) | 17 05 04 (Soil and stones other than those mentioned in 17 05 03) |

Hazard properties

None identified


Determinands

Moisture content: 34.6% Dry Weight Moisture Correction applied (MC)

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|----|--|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | |
| 1 | pH | | | | 6.39 pH | | 6.39 pH | 6.39 pH | | |
| 2 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } | | | | 0.7 mg/kg | 1.884 | 0.98 mg/kg | 0.000098 % | ✓ | |
| | 006-007-00-5 | | | | | | | | | |
| 3 | phenol | | | | <0.01 mg/kg | | <0.01 mg/kg | <0.000001 % | | <LOD |
| | 604-001-00-2 | 203-632-7 | 108-95-2 | | | | | | | |
| 4 | antimony { antimony trioxide } | | | | 6 mg/kg | 1.197 | 5.336 mg/kg | 0.000534 % | ✓ | |
| | 051-005-00-X | 215-175-0 | 1309-64-4 | | | | | | | |
| 5 | arsenic { arsenic trioxide } | | | | 16.8 mg/kg | 1.32 | 16.48 mg/kg | 0.00165 % | ✓ | |
| | 033-003-00-0 | 215-481-4 | 1327-53-3 | | | | | | | |
| 6 | barium { barium sulfate } | | | | 149 mg/kg | 1.7 | 188.134 mg/kg | 0.0188 % | ✓ | |
| | | 231-784-4 | 7727-43-7 | | | | | | | |
| 7 | cadmium { cadmium sulfide } | | | 1 | 0.3 mg/kg | 1.285 | 0.286 mg/kg | 0.0000223 % | ✓ | |
| | 048-010-00-4 | 215-147-8 | 1306-23-6 | | | | | | | |
| 8 | chromium in chromium(III) compounds { chromium(III) oxide } | | | | 32.8 mg/kg | 1.462 | 35.616 mg/kg | 0.00356 % | ✓ | |
| | | 215-160-9 | 1308-38-9 | | | | | | | |
| 9 | copper { dicopper oxide; copper (I) oxide } | | | | 17 mg/kg | 1.126 | 14.22 mg/kg | 0.00142 % | ✓ | |
| | 029-002-00-X | 215-270-7 | 1317-39-1 | | | | | | | |
| 10 | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } | | | 1 | 80 mg/kg | | 59.435 mg/kg | 0.00594 % | ✓ | |
| | 082-001-00-6 | | | | | | | | | |
| 11 | mercury { mercury dichloride } | | | | <0.1 mg/kg | 1.353 | <0.135 mg/kg | <0.0000135 % | | <LOD |
| | 080-010-00-X | 231-299-8 | 7487-94-7 | | | | | | | |
| 12 | nickel { nickel dihydroxide } | | | | 8.2 mg/kg | 1.579 | 9.623 mg/kg | 0.000962 % | ✓ | |
| | 028-008-00-X | 235-008-5 [1] 234-348-1 [2] | 12054-48-7 [1] 11113-74-9 [2] | | | | | | | |
| 13 | selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } | | | | 3 mg/kg | 2.554 | 5.692 mg/kg | 0.000569 % | ✓ | |
| | 034-002-00-8 | | | | | | | | | |

| # | Determinand | | | CLP Note | User entered data | | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|--------|--|--------------|-----------------------------------|-----------------------------|-------------------|-------------|--------------|----------------|--------------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | | |
| 14 | vanadium { divanadium pentaoxide; vanadium pentoxide } | 023-001-00-8 | 215-239-8 | 1314-62-1 | | 45 mg/kg | 1.785 | 59.683 mg/kg | 0.00597 % | | ✓ | |
| 15 | boron { boron tribromide/trichloride/trifluoride (combined) } | | 10294-33-4, 10294-34-5, 7637-07-2 | | | 1.8 mg/kg | 13.43 | 17.96 mg/kg | 0.0018 % | | ✓ | |
| 16 | zinc { zinc sulphate } | 030-006-00-9 | 231-793-3 [1] 231-793-3 [2] | 7446-19-7 [1] 7733-02-0 [2] | | 163 mg/kg | 2.469 | 299.031 mg/kg | 0.0299 % | | ✓ | |
| 17 | chromium in chromium(VI) compounds { chromium(VI) oxide } | 024-001-00-0 | 215-607-8 | 1333-82-0 | | <0.3 mg/kg | 1.923 | <0.577 mg/kg | <0.0000577 % | | | <LOD |
| 18 | TPH (C6 to C40) petroleum group | | TPH | | | <52 mg/kg | | <52 mg/kg | <0.0052 % | | | <LOD |
| 19 | naphthalene | 601-052-00-2 | 202-049-5 | 91-20-3 | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| 20 | acenaphthylene | | 205-917-1 | 208-96-8 | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | | <LOD |
| 21 | acenaphthene | | 201-469-6 | 83-32-9 | | <0.05 mg/kg | | <0.05 mg/kg | <0.000005 % | | | <LOD |
| 22 | fluorene | | 201-695-5 | 86-73-7 | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| 23 | phenanthrene | | 201-581-5 | 85-01-8 | | 0.1 mg/kg | | 0.0743 mg/kg | 0.00000743 % | | ✓ | |
| 24 | anthracene | | 204-371-1 | 120-12-7 | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| 25 | fluoranthene | | 205-912-4 | 206-44-0 | | 0.2 mg/kg | | 0.149 mg/kg | 0.0000149 % | | ✓ | |
| 26 | pyrene | | 204-927-3 | 129-00-0 | | 0.19 mg/kg | | 0.141 mg/kg | 0.0000141 % | | ✓ | |
| 27 | benzo[a]anthracene | 601-033-00-9 | 200-280-6 | 56-55-3 | | 0.1 mg/kg | | 0.0743 mg/kg | 0.00000743 % | | ✓ | |
| 28 | chrysene | 601-048-00-0 | 205-923-4 | 218-01-9 | | 0.11 mg/kg | | 0.0817 mg/kg | 0.00000817 % | | ✓ | |
| 29 | benzo[b]fluoranthene | 601-034-00-4 | 205-911-9 | 205-99-2 | | 0.14 mg/kg | | 0.104 mg/kg | 0.0000104 % | | ✓ | |
| 30 | benzo[k]fluoranthene | 601-036-00-5 | 205-916-6 | 207-08-9 | | 0.05 mg/kg | | 0.0371 mg/kg | 0.00000371 % | | ✓ | |
| 31 | benzo[a]pyrene; benzo[def]chrysene | 601-032-00-3 | 200-028-5 | 50-32-8 | | 0.07 mg/kg | | 0.052 mg/kg | 0.0000052 % | | ✓ | |
| 32 | indeno[123-cd]pyrene | | 205-893-2 | 193-39-5 | | 0.07 mg/kg | | 0.052 mg/kg | 0.0000052 % | | ✓ | |
| 33 | dibenz[a,h]anthracene | 601-041-00-2 | 200-181-8 | 53-70-3 | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| 34 | benzo[ghi]perylene | | 205-883-8 | 191-24-2 | | 0.07 mg/kg | | 0.052 mg/kg | 0.0000052 % | | ✓ | |
| Total: | | | | | | | | | | 0.0766 % | | |

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 Determinand - 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

Classification of sample: 57629/TP#5-2

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

Sample details

| | | |
|--|-----------------------|---|
| Sample Name: 57629/TP#5-2 | LoW Code: Chapter: | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| Moisture content: 34.3% (dry weight correction) | Entry: | 17 05 04 (Soil and stones other than those mentioned in 17 05 03) |

Hazard properties

None identified


Determinands

Moisture content: 34.3% Dry Weight Moisture Correction applied (MC)

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|----|--|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | |
| 1 | pH | | | | 6.41 pH | | 6.41 pH | 6.41 pH | | |
| 2 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } | | | | <0.5 mg/kg | 1.884 | <0.942 mg/kg | <0.0000942 % | | <LOD |
| | 006-007-00-5 | | | | | | | | | |
| 3 | phenol | | | | <0.01 mg/kg | | <0.01 mg/kg | <0.000001 % | | <LOD |
| | 604-001-00-2 | 203-632-7 | 108-95-2 | | | | | | | |
| 4 | antimony { antimony trioxide } | | | | 3 mg/kg | 1.197 | 2.674 mg/kg | 0.000267 % | ✓ | |
| | 051-005-00-X | 215-175-0 | 1309-64-4 | | | | | | | |
| 5 | arsenic { arsenic trioxide } | | | | 19.3 mg/kg | 1.32 | 18.974 mg/kg | 0.0019 % | ✓ | |
| | 033-003-00-0 | 215-481-4 | 1327-53-3 | | | | | | | |
| 6 | barium { barium sulfate } | | | | 98 mg/kg | 1.7 | 124.015 mg/kg | 0.0124 % | ✓ | |
| | | 231-784-4 | 7727-43-7 | | | | | | | |
| 7 | cadmium { cadmium sulfide } | | | 1 | 0.3 mg/kg | 1.285 | 0.287 mg/kg | 0.0000223 % | ✓ | |
| | 048-010-00-4 | 215-147-8 | 1306-23-6 | | | | | | | |
| 8 | chromium in chromium(III) compounds { chromium(III) oxide } | | | | 28.9 mg/kg | 1.462 | 31.451 mg/kg | 0.00315 % | ✓ | |
| | | 215-160-9 | 1308-38-9 | | | | | | | |
| 9 | copper { dicopper oxide; copper (I) oxide } | | | | 19 mg/kg | 1.126 | 15.928 mg/kg | 0.00159 % | ✓ | |
| | 029-002-00-X | 215-270-7 | 1317-39-1 | | | | | | | |
| 10 | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } | | | 1 | 35 mg/kg | | 26.061 mg/kg | 0.00261 % | ✓ | |
| | 082-001-00-6 | | | | | | | | | |
| 11 | mercury { mercury dichloride } | | | | <0.1 mg/kg | 1.353 | <0.135 mg/kg | <0.0000135 % | | <LOD |
| | 080-010-00-X | 231-299-8 | 7487-94-7 | | | | | | | |
| 12 | nickel { nickel dihydroxide } | | | | 17.1 mg/kg | 1.579 | 20.111 mg/kg | 0.00201 % | ✓ | |
| | 028-008-00-X | 235-008-5 [1] 234-348-1 [2] | 12054-48-7 [1] 11113-74-9 [2] | | | | | | | |
| 13 | selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } | | | | 2 mg/kg | 2.554 | 3.803 mg/kg | 0.00038 % | ✓ | |
| | 034-002-00-8 | | | | | | | | | |

| # | Determinand | | | CLP Note | User entered data | | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|--------|--|--------------------------------|---|----------|-------------------|-------|--------------|----------------|-------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | | |
| 14 | vanadium { divanadium pentaoxide; vanadium pentoxide } | | | | 37 | mg/kg | 1.785 | 49.182 | mg/kg | 0.00492 % | ✓ | |
| | 023-001-00-8 | 215-239-8 | 1314-62-1 | | | | | | | | | |
| 15 | boron { boron tribromide/trichloride/trifluoride (combined) } | | | | 0.8 | mg/kg | 13.43 | 8 | mg/kg | 0.0008 % | ✓ | |
| | | | 10294-33-4, 10294-34-5, 7637-07-2 | | | | | | | | | |
| 16 | zinc { zinc sulphate } | | | | 80 | mg/kg | 2.469 | 147.091 | mg/kg | 0.0147 % | ✓ | |
| | 030-006-00-9 | 231-793-3 [1] 231-793-3 [2] | 7446-19-7 [1] 7733-02-0 [2] | | | | | | | | | |
| 17 | chromium in chromium(VI) compounds { chromium(VI) oxide } | | | | <0.3 | mg/kg | 1.923 | <0.577 | mg/kg | <0.0000577 % | | <LOD |
| | 024-001-00-0 | 215-607-8 | 1333-82-0 | | | | | | | | | |
| 18 | TPH (C6 to C40) petroleum group | | | | <52 | mg/kg | | <52 | mg/kg | <0.0052 % | | <LOD |
| | | | TPH | | | | | | | | | |
| 19 | naphthalene | | | | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | 601-052-00-2 | 202-049-5 | 91-20-3 | | | | | | | | | |
| 20 | acenaphthylene | | | | <0.03 | mg/kg | | <0.03 | mg/kg | <0.000003 % | | <LOD |
| | | 205-917-1 | 208-96-8 | | | | | | | | | |
| 21 | acenaphthene | | | | <0.05 | mg/kg | | <0.05 | mg/kg | <0.000005 % | | <LOD |
| | | 201-469-6 | 83-32-9 | | | | | | | | | |
| 22 | fluorene | | | | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | | 201-695-5 | 86-73-7 | | | | | | | | | |
| 23 | phenanthrene | | | | <0.03 | mg/kg | | <0.03 | mg/kg | <0.000003 % | | <LOD |
| | | 201-581-5 | 85-01-8 | | | | | | | | | |
| 24 | anthracene | | | | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | | 204-371-1 | 120-12-7 | | | | | | | | | |
| 25 | fluoranthene | | | | <0.03 | mg/kg | | <0.03 | mg/kg | <0.000003 % | | <LOD |
| | | 205-912-4 | 206-44-0 | | | | | | | | | |
| 26 | pyrene | | | | <0.03 | mg/kg | | <0.03 | mg/kg | <0.000003 % | | <LOD |
| | | 204-927-3 | 129-00-0 | | | | | | | | | |
| 27 | benzo[a]anthracene | | | | <0.06 | mg/kg | | <0.06 | mg/kg | <0.000006 % | | <LOD |
| | 601-033-00-9 | 200-280-6 | 56-55-3 | | | | | | | | | |
| 28 | chrysene | | | | <0.02 | mg/kg | | <0.02 | mg/kg | <0.000002 % | | <LOD |
| | 601-048-00-0 | 205-923-4 | 218-01-9 | | | | | | | | | |
| 29 | benzo[b]fluoranthene | | | | <0.05 | mg/kg | | <0.05 | mg/kg | <0.000005 % | | <LOD |
| | 601-034-00-4 | 205-911-9 | 205-99-2 | | | | | | | | | |
| 30 | benzo[k]fluoranthene | | | | <0.02 | mg/kg | | <0.02 | mg/kg | <0.000002 % | | <LOD |
| | 601-036-00-5 | 205-916-6 | 207-08-9 | | | | | | | | | |
| 31 | benzo[a]pyrene; benzo[def]chrysene | | | | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | 601-032-00-3 | 200-028-5 | 50-32-8 | | | | | | | | | |
| 32 | indeno[123-cd]pyrene | | | | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | | 205-893-2 | 193-39-5 | | | | | | | | | |
| 33 | dibenz[a,h]anthracene | | | | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | 601-041-00-2 | 200-181-8 | 53-70-3 | | | | | | | | | |
| 34 | benzo[ghi]perylene | | | | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | | 205-883-8 | 191-24-2 | | | | | | | | | |
| Total: | | | | | | | | | | 0.0502 % | | |

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 Determinand - 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

Classification of sample: 57629/TP#6-1

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

Sample details

| | |
|-------------------------|---|
| Sample Name: | LoW Code: |
| 57629/TP#6-1 | Chapter: |
| Moisture content: | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| 47.7% | Entry: |
| (dry weight correction) | 17 05 04 (Soil and stones other than those mentioned in 17 05 03) |

Hazard properties

None identified


Determinands

Moisture content: 47.7% Dry Weight Moisture Correction applied (MC)

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|----|--|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | |
| 1 | pH | | | | 6.88 pH | | 6.88 pH | 6.88 pH | | |
| 2 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } | | | | <0.5 mg/kg | 1.884 | <0.942 mg/kg | <0.0000942 % | | <LOD |
| | 006-007-00-5 | | | | | | | | | |
| 3 | phenol | | | | <0.01 mg/kg | | <0.01 mg/kg | <0.000001 % | | <LOD |
| | 604-001-00-2 | 203-632-7 | 108-95-2 | | | | | | | |
| 4 | antimony { antimony trioxide } | | | | 5 mg/kg | 1.197 | 4.052 mg/kg | 0.000405 % | ✓ | |
| | 051-005-00-X | 215-175-0 | 1309-64-4 | | | | | | | |
| 5 | arsenic { arsenic trioxide } | | | | 30.6 mg/kg | 1.32 | 27.354 mg/kg | 0.00274 % | ✓ | |
| | 033-003-00-0 | 215-481-4 | 1327-53-3 | | | | | | | |
| 6 | barium { barium sulfate } | | | | 223 mg/kg | 1.7 | 256.596 mg/kg | 0.0257 % | ✓ | |
| | | 231-784-4 | 7727-43-7 | | | | | | | |
| 7 | cadmium { cadmium sulfide } | | | 1 | 0.3 mg/kg | 1.285 | 0.261 mg/kg | 0.0000203 % | ✓ | |
| | 048-010-00-4 | 215-147-8 | 1306-23-6 | | | | | | | |
| 8 | chromium in chromium(III) compounds { chromium(III) oxide } | | | | 36.1 mg/kg | 1.462 | 35.723 mg/kg | 0.00357 % | ✓ | |
| | | 215-160-9 | 1308-38-9 | | | | | | | |
| 9 | copper { dicopper oxide; copper (I) oxide } | | | | 83 mg/kg | 1.126 | 63.269 mg/kg | 0.00633 % | ✓ | |
| | 029-002-00-X | 215-270-7 | 1317-39-1 | | | | | | | |
| 10 | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } | | | 1 | 202 mg/kg | | 136.764 mg/kg | 0.0137 % | ✓ | |
| | 082-001-00-6 | | | | | | | | | |
| 11 | mercury { mercury dichloride } | | | | 0.3 mg/kg | 1.353 | 0.275 mg/kg | 0.0000275 % | ✓ | |
| | 080-010-00-X | 231-299-8 | 7487-94-7 | | | | | | | |
| 12 | nickel { nickel dihydroxide } | | | | 22.2 mg/kg | 1.579 | 23.741 mg/kg | 0.00237 % | ✓ | |
| | 028-008-00-X | 235-008-5 [1] 234-348-1 [2] | 12054-48-7 [1] 11113-74-9 [2] | | | | | | | |
| 13 | selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } | | | | 2 mg/kg | 2.554 | 3.458 mg/kg | 0.000346 % | ✓ | |
| | 034-002-00-8 | | | | | | | | | |

| # | Determinand | | | CLP Note | User entered data | | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|--------|---|-----------------------------|-----------------------------------|----------|-------------------|-------|--------------|----------------|-------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | | |
| 14 | vanadium { divanadium pentaoxide; vanadium pentoxide } | | | | 56 | mg/kg | 1.785 | 67.685 | mg/kg | 0.00677 % | ✓ | |
| | 023-001-00-8 | 215-239-8 | 1314-62-1 | | | | | | | | | |
| 15 | boron { boron tribromide/trichloride/trifluoride (combined) } | | | | 3.4 | mg/kg | 13.43 | 30.915 | mg/kg | 0.00309 % | ✓ | |
| | | | 10294-33-4, 10294-34-5, 7637-07-2 | | | | | | | | | |
| 16 | zinc { zinc sulphate } | | | | 184 | mg/kg | 2.469 | 307.617 | mg/kg | 0.0308 % | ✓ | |
| | 030-006-00-9 | 231-793-3 [1] 231-793-3 [2] | 7446-19-7 [1] 7733-02-0 [2] | | | | | | | | | |
| 17 | chromium in chromium(VI) compounds { chromium(VI) oxide } | | | | <0.3 | mg/kg | 1.923 | <0.577 | mg/kg | <0.0000577 % | | <LOD |
| | 024-001-00-0 | 215-607-8 | 1333-82-0 | | | | | | | | | |
| 18 | TPH (C6 to C40) petroleum group | | | | <52 | mg/kg | | <52 | mg/kg | <0.0052 % | | <LOD |
| | | | TPH | | | | | | | | | |
| 19 | naphthalene | | | | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | 601-052-00-2 | 202-049-5 | 91-20-3 | | | | | | | | | |
| 20 | acenaphthylene | | | | 0.04 | mg/kg | | 0.0271 | mg/kg | 0.00000271 % | ✓ | |
| | | 205-917-1 | 208-96-8 | | | | | | | | | |
| 21 | acenaphthene | | | | <0.05 | mg/kg | | <0.05 | mg/kg | <0.000005 % | | <LOD |
| | | 201-469-6 | 83-32-9 | | | | | | | | | |
| 22 | fluorene | | | | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | | 201-695-5 | 86-73-7 | | | | | | | | | |
| 23 | phenanthrene | | | | 0.24 | mg/kg | | 0.162 | mg/kg | 0.0000162 % | ✓ | |
| | | 201-581-5 | 85-01-8 | | | | | | | | | |
| 24 | anthracene | | | | 0.07 | mg/kg | | 0.0474 | mg/kg | 0.00000474 % | ✓ | |
| | | 204-371-1 | 120-12-7 | | | | | | | | | |
| 25 | fluoranthene | | | | 0.47 | mg/kg | | 0.318 | mg/kg | 0.0000318 % | ✓ | |
| | | 205-912-4 | 206-44-0 | | | | | | | | | |
| 26 | pyrene | | | | 0.42 | mg/kg | | 0.284 | mg/kg | 0.0000284 % | ✓ | |
| | | 204-927-3 | 129-00-0 | | | | | | | | | |
| 27 | benzo[a]anthracene | | | | 0.3 | mg/kg | | 0.203 | mg/kg | 0.0000203 % | ✓ | |
| | 601-033-00-9 | 200-280-6 | 56-55-3 | | | | | | | | | |
| 28 | chrysene | | | | 0.22 | mg/kg | | 0.149 | mg/kg | 0.0000149 % | ✓ | |
| | 601-048-00-0 | 205-923-4 | 218-01-9 | | | | | | | | | |
| 29 | benzo[b]fluoranthene | | | | 0.32 | mg/kg | | 0.217 | mg/kg | 0.0000217 % | ✓ | |
| | 601-034-00-4 | 205-911-9 | 205-99-2 | | | | | | | | | |
| 30 | benzo[k]fluoranthene | | | | 0.13 | mg/kg | | 0.088 | mg/kg | 0.0000088 % | ✓ | |
| | 601-036-00-5 | 205-916-6 | 207-08-9 | | | | | | | | | |
| 31 | benzo[a]pyrene; benzo[def]chrysene | | | | 0.22 | mg/kg | | 0.149 | mg/kg | 0.0000149 % | ✓ | |
| | 601-032-00-3 | 200-028-5 | 50-32-8 | | | | | | | | | |
| 32 | indeno[123-cd]pyrene | | | | 0.16 | mg/kg | | 0.108 | mg/kg | 0.0000108 % | ✓ | |
| | | 205-893-2 | 193-39-5 | | | | | | | | | |
| 33 | dibenz[a,h]anthracene | | | | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | 601-041-00-2 | 200-181-8 | 53-70-3 | | | | | | | | | |
| 34 | benzo[ghi]perylene | | | | 0.16 | mg/kg | | 0.108 | mg/kg | 0.0000108 % | ✓ | |
| | | 205-883-8 | 191-24-2 | | | | | | | | | |
| Total: | | | | | | | | | | 0.101 % | | |

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 Determinand - 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

Classification of sample: 57629/TP#6-2

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

Sample details

| | |
|-------------------------|---|
| Sample Name: | LoW Code: |
| 57629/TP#6-2 | Chapter: |
| Moisture content: | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| 22.3% | Entry: |
| (dry weight correction) | 17 05 04 (Soil and stones other than those mentioned in 17 05 03) |

Hazard properties

None identified


Determinands

Moisture content: 22.3% Dry Weight Moisture Correction applied (MC)

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|----|--|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | |
| 1 | pH | | | | 7.68 pH | | 7.68 pH | 7.68 pH | | |
| 2 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } | | | | <0.5 mg/kg | 1.884 | <0.942 mg/kg | <0.0000942 % | | <LOD |
| | 006-007-00-5 | | | | | | | | | |
| 3 | phenol | | | | <0.01 mg/kg | | <0.01 mg/kg | <0.000001 % | | <LOD |
| | 604-001-00-2 | 203-632-7 | 108-95-2 | | | | | | | |
| 4 | antimony { antimony trioxide } | | | | 3 mg/kg | 1.197 | 2.936 mg/kg | 0.000294 % | ✓ | |
| | 051-005-00-X | 215-175-0 | 1309-64-4 | | | | | | | |
| 5 | arsenic { arsenic trioxide } | | | | 2.2 mg/kg | 1.32 | 2.375 mg/kg | 0.000238 % | ✓ | |
| | 033-003-00-0 | 215-481-4 | 1327-53-3 | | | | | | | |
| 6 | barium { barium sulfate } | | | | 66 mg/kg | 1.7 | 91.716 mg/kg | 0.00917 % | ✓ | |
| | | 231-784-4 | 7727-43-7 | | | | | | | |
| 7 | cadmium { cadmium sulfide } | | | 1 | <0.1 mg/kg | 1.285 | <0.129 mg/kg | <0.00001 % | | <LOD |
| | 048-010-00-4 | 215-147-8 | 1306-23-6 | | | | | | | |
| 8 | chromium in chromium(III) compounds { chromium(III) oxide } | | | | 32.9 mg/kg | 1.462 | 39.317 mg/kg | 0.00393 % | ✓ | |
| | | 215-160-9 | 1308-38-9 | | | | | | | |
| 9 | copper { dicopper oxide; copper (I) oxide } | | | | 12 mg/kg | 1.126 | 11.047 mg/kg | 0.0011 % | ✓ | |
| | 029-002-00-X | 215-270-7 | 1317-39-1 | | | | | | | |
| 10 | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } | | | 1 | 13 mg/kg | | 10.63 mg/kg | 0.00106 % | ✓ | |
| | 082-001-00-6 | | | | | | | | | |
| 11 | mercury { mercury dichloride } | | | | <0.1 mg/kg | 1.353 | <0.135 mg/kg | <0.0000135 % | | <LOD |
| | 080-010-00-X | 231-299-8 | 7487-94-7 | | | | | | | |
| 12 | nickel { nickel dihydroxide } | | | | 20 mg/kg | 1.579 | 25.83 mg/kg | 0.00258 % | ✓ | |
| | 028-008-00-X | 235-008-5 [1] 234-348-1 [2] | 12054-48-7 [1] 11113-74-9 [2] | | | | | | | |
| 13 | selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } | | | | <1 mg/kg | 2.554 | <2.554 mg/kg | <0.000255 % | | <LOD |
| | 034-002-00-8 | | | | | | | | | |

| # | Determinand | | | CLP Note | User entered data | | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|--------|--|--------------------------------|---|----------|-------------------|-------|--------------|----------------|-------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | | |
| 14 | vanadium { divanadium pentaoxide; vanadium pentoxide } | | | | 32 | mg/kg | 1.785 | 46.71 | mg/kg | 0.00467 % | ✓ | |
| | 023-001-00-8 | 215-239-8 | 1314-62-1 | | | | | | | | | |
| 15 | boron { boron tribromide/trichloride/trifluoride (combined) } | | | | 2 | mg/kg | 13.43 | 21.962 | mg/kg | 0.0022 % | ✓ | |
| | | | 10294-33-4, 10294-34-5, 7637-07-2 | | | | | | | | | |
| 16 | zinc { zinc sulphate } | | | | 86 | mg/kg | 2.469 | 173.638 | mg/kg | 0.0174 % | ✓ | |
| | 030-006-00-9 | 231-793-3 [1] 231-793-3 [2] | 7446-19-7 [1] 7733-02-0 [2] | | | | | | | | | |
| 17 | chromium in chromium(VI) compounds { chromium(VI) oxide } | | | | <0.3 | mg/kg | 1.923 | <0.577 | mg/kg | <0.0000577 % | | <LOD |
| | 024-001-00-0 | 215-607-8 | 1333-82-0 | | | | | | | | | |
| 18 | TPH (C6 to C40) petroleum group | | | | <52 | mg/kg | | <52 | mg/kg | <0.0052 % | | <LOD |
| | | | TPH | | | | | | | | | |
| 19 | naphthalene | | | | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | 601-052-00-2 | 202-049-5 | 91-20-3 | | | | | | | | | |
| 20 | acenaphthylene | | | | <0.03 | mg/kg | | <0.03 | mg/kg | <0.000003 % | | <LOD |
| | | 205-917-1 | 208-96-8 | | | | | | | | | |
| 21 | acenaphthene | | | | <0.05 | mg/kg | | <0.05 | mg/kg | <0.000005 % | | <LOD |
| | | 201-469-6 | 83-32-9 | | | | | | | | | |
| 22 | fluorene | | | | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | | 201-695-5 | 86-73-7 | | | | | | | | | |
| 23 | phenanthrene | | | | <0.03 | mg/kg | | <0.03 | mg/kg | <0.000003 % | | <LOD |
| | | 201-581-5 | 85-01-8 | | | | | | | | | |
| 24 | anthracene | | | | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | | 204-371-1 | 120-12-7 | | | | | | | | | |
| 25 | fluoranthene | | | | <0.03 | mg/kg | | <0.03 | mg/kg | <0.000003 % | | <LOD |
| | | 205-912-4 | 206-44-0 | | | | | | | | | |
| 26 | pyrene | | | | <0.03 | mg/kg | | <0.03 | mg/kg | <0.000003 % | | <LOD |
| | | 204-927-3 | 129-00-0 | | | | | | | | | |
| 27 | benzo[a]anthracene | | | | <0.06 | mg/kg | | <0.06 | mg/kg | <0.000006 % | | <LOD |
| | 601-033-00-9 | 200-280-6 | 56-55-3 | | | | | | | | | |
| 28 | chrysene | | | | <0.02 | mg/kg | | <0.02 | mg/kg | <0.000002 % | | <LOD |
| | 601-048-00-0 | 205-923-4 | 218-01-9 | | | | | | | | | |
| 29 | benzo[b]fluoranthene | | | | <0.05 | mg/kg | | <0.05 | mg/kg | <0.000005 % | | <LOD |
| | 601-034-00-4 | 205-911-9 | 205-99-2 | | | | | | | | | |
| 30 | benzo[k]fluoranthene | | | | <0.02 | mg/kg | | <0.02 | mg/kg | <0.000002 % | | <LOD |
| | 601-036-00-5 | 205-916-6 | 207-08-9 | | | | | | | | | |
| 31 | benzo[a]pyrene; benzo[def]chrysene | | | | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | 601-032-00-3 | 200-028-5 | 50-32-8 | | | | | | | | | |
| 32 | indeno[123-cd]pyrene | | | | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | | 205-893-2 | 193-39-5 | | | | | | | | | |
| 33 | dibenz[a,h]anthracene | | | | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | 601-041-00-2 | 200-181-8 | 53-70-3 | | | | | | | | | |
| 34 | benzo[ghi]perylene | | | | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | | 205-883-8 | 191-24-2 | | | | | | | | | |
| Total: | | | | | | | | | | 0.0483 % | | |

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 Determinand - 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

Classification of sample: 57629/TP#7-1

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

Sample details

| | |
|-------------------------|---|
| Sample Name: | LoW Code: |
| 57629/TP#7-1 | Chapter: |
| Moisture content: | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| 29.1% | Entry: |
| (dry weight correction) | 17 05 04 (Soil and stones other than those mentioned in 17 05 03) |

Hazard properties

None identified


Determinands

Moisture content: 29.1% Dry Weight Moisture Correction applied (MC)

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|----|--|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | |
| 1 | pH | | | | 6.23 pH | | 6.23 pH | 6.23 pH | | |
| 2 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } | | | | <0.5 mg/kg | 1.884 | <0.942 mg/kg | <0.0000942 % | | <LOD |
| | 006-007-00-5 | | | | | | | | | |
| 3 | phenol | | | | <0.01 mg/kg | | <0.01 mg/kg | <0.000001 % | | <LOD |
| | 604-001-00-2 | 203-632-7 | 108-95-2 | | | | | | | |
| 4 | antimony { antimony trioxide } | | | | 3 mg/kg | 1.197 | 2.782 mg/kg | 0.000278 % | ✓ | |
| | 051-005-00-X | 215-175-0 | 1309-64-4 | | | | | | | |
| 5 | arsenic { arsenic trioxide } | | | | 7.6 mg/kg | 1.32 | 7.773 mg/kg | 0.000777 % | ✓ | |
| | 033-003-00-0 | 215-481-4 | 1327-53-3 | | | | | | | |
| 6 | barium { barium sulfate } | | | | 133 mg/kg | 1.7 | 175.086 mg/kg | 0.0175 % | ✓ | |
| | | 231-784-4 | 7727-43-7 | | | | | | | |
| 7 | cadmium { cadmium sulfide } | | | 1 | 0.3 mg/kg | 1.285 | 0.299 mg/kg | 0.0000232 % | ✓ | |
| | 048-010-00-4 | 215-147-8 | 1306-23-6 | | | | | | | |
| 8 | chromium in chromium(III) compounds { chromium(III) oxide } | | | | 35.4 mg/kg | 1.462 | 40.077 mg/kg | 0.00401 % | ✓ | |
| | | 215-160-9 | 1308-38-9 | | | | | | | |
| 9 | copper { dicopper oxide; copper (I) oxide } | | | | 13 mg/kg | 1.126 | 11.337 mg/kg | 0.00113 % | ✓ | |
| | 029-002-00-X | 215-270-7 | 1317-39-1 | | | | | | | |
| 10 | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } | | | 1 | 49 mg/kg | | 37.955 mg/kg | 0.0038 % | ✓ | |
| | 082-001-00-6 | | | | | | | | | |
| 11 | mercury { mercury dichloride } | | | | <0.1 mg/kg | 1.353 | <0.135 mg/kg | <0.0000135 % | | <LOD |
| | 080-010-00-X | 231-299-8 | 7487-94-7 | | | | | | | |
| 12 | nickel { nickel dihydroxide } | | | | 26.1 mg/kg | 1.579 | 31.933 mg/kg | 0.00319 % | ✓ | |
| | 028-008-00-X | 235-008-5 [1] 234-348-1 [2] | 12054-48-7 [1] 11113-74-9 [2] | | | | | | | |
| 13 | selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } | | | | 2 mg/kg | 2.554 | 3.956 mg/kg | 0.000396 % | ✓ | |
| | 034-002-00-8 | | | | | | | | | |

| # | Determinand | | | CLP Note | User entered data | | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|--------|--|--------------------------------|---|----------|-------------------|-------|--------------|----------------|-------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | | |
| 14 | vanadium { divanadium pentaoxide; vanadium pentoxide } | | | | 34 | mg/kg | 1.785 | 47.015 | mg/kg | 0.0047 % | ✓ | |
| | 023-001-00-8 | 215-239-8 | 1314-62-1 | | | | | | | | | |
| 15 | boron { boron tribromide/trichloride/trifluoride (combined) } | | | | 0.8 | mg/kg | 13.43 | 8.322 | mg/kg | 0.000832 % | ✓ | |
| | | | 10294-33-4, 10294-34-5, 7637-07-2 | | | | | | | | | |
| 16 | zinc { zinc sulphate } | | | | 96 | mg/kg | 2.469 | 183.619 | mg/kg | 0.0184 % | ✓ | |
| | 030-006-00-9 | 231-793-3 [1] 231-793-3 [2] | 7446-19-7 [1] 7733-02-0 [2] | | | | | | | | | |
| 17 | chromium in chromium(VI) compounds { chromium(VI) oxide } | | | | <0.3 | mg/kg | 1.923 | <0.577 | mg/kg | <0.0000577 % | | <LOD |
| | 024-001-00-0 | 215-607-8 | 1333-82-0 | | | | | | | | | |
| 18 | TPH (C6 to C40) petroleum group | | | | <52 | mg/kg | | <52 | mg/kg | <0.0052 % | | <LOD |
| | | | TPH | | | | | | | | | |
| 19 | naphthalene | | | | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | 601-052-00-2 | 202-049-5 | 91-20-3 | | | | | | | | | |
| 20 | acenaphthylene | | | | <0.03 | mg/kg | | <0.03 | mg/kg | <0.000003 % | | <LOD |
| | | 205-917-1 | 208-96-8 | | | | | | | | | |
| 21 | acenaphthene | | | | <0.05 | mg/kg | | <0.05 | mg/kg | <0.000005 % | | <LOD |
| | | 201-469-6 | 83-32-9 | | | | | | | | | |
| 22 | fluorene | | | | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | | 201-695-5 | 86-73-7 | | | | | | | | | |
| 23 | phenanthrene | | | | 0.05 | mg/kg | | 0.0387 | mg/kg | 0.00000387 % | ✓ | |
| | | 201-581-5 | 85-01-8 | | | | | | | | | |
| 24 | anthracene | | | | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | | 204-371-1 | 120-12-7 | | | | | | | | | |
| 25 | fluoranthene | | | | 0.09 | mg/kg | | 0.0697 | mg/kg | 0.00000697 % | ✓ | |
| | | 205-912-4 | 206-44-0 | | | | | | | | | |
| 26 | pyrene | | | | 0.07 | mg/kg | | 0.0542 | mg/kg | 0.00000542 % | ✓ | |
| | | 204-927-3 | 129-00-0 | | | | | | | | | |
| 27 | benzo[a]anthracene | | | | <0.06 | mg/kg | | <0.06 | mg/kg | <0.000006 % | | <LOD |
| | 601-033-00-9 | 200-280-6 | 56-55-3 | | | | | | | | | |
| 28 | chrysene | | | | 0.04 | mg/kg | | 0.031 | mg/kg | 0.0000031 % | ✓ | |
| | 601-048-00-0 | 205-923-4 | 218-01-9 | | | | | | | | | |
| 29 | benzo[b]fluoranthene | | | | <0.05 | mg/kg | | <0.05 | mg/kg | <0.000005 % | | <LOD |
| | 601-034-00-4 | 205-911-9 | 205-99-2 | | | | | | | | | |
| 30 | benzo[k]fluoranthene | | | | <0.02 | mg/kg | | <0.02 | mg/kg | <0.000002 % | | <LOD |
| | 601-036-00-5 | 205-916-6 | 207-08-9 | | | | | | | | | |
| 31 | benzo[a]pyrene; benzo[def]chrysene | | | | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | 601-032-00-3 | 200-028-5 | 50-32-8 | | | | | | | | | |
| 32 | indeno[123-cd]pyrene | | | | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | | 205-893-2 | 193-39-5 | | | | | | | | | |
| 33 | dibenz[a,h]anthracene | | | | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | 601-041-00-2 | 200-181-8 | 53-70-3 | | | | | | | | | |
| 34 | benzo[ghi]perylene | | | | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | | 205-883-8 | 191-24-2 | | | | | | | | | |
| Total: | | | | | | | | | | 0.0604 % | | |

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 Determinand - 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

Classification of sample: 57629/TP#7-2

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

Sample details

| | |
|-------------------------|---|
| Sample Name: | LoW Code: |
| 57629/TP#7-2 | Chapter: |
| Moisture content: | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| 17.9% | Entry: |
| (dry weight correction) | 17 05 04 (Soil and stones other than those mentioned in 17 05 03) |

Hazard properties

None identified


Determinands

Moisture content: 17.9% Dry Weight Moisture Correction applied (MC)

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|----|--|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | |
| 1 | pH | | | | 5.91 pH | | 5.91 pH | 5.91 pH | | |
| 2 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } | | | | <0.5 mg/kg | 1.884 | <0.942 mg/kg | <0.0000942 % | | <LOD |
| | 006-007-00-5 | | | | | | | | | |
| 3 | phenol | | | | <0.01 mg/kg | | <0.01 mg/kg | <0.000001 % | | <LOD |
| | 604-001-00-2 | 203-632-7 | 108-95-2 | | | | | | | |
| 4 | antimony { antimony trioxide } | | | | 2 mg/kg | 1.197 | 2.031 mg/kg | 0.000203 % | ✓ | |
| | 051-005-00-X | 215-175-0 | 1309-64-4 | | | | | | | |
| 5 | arsenic { arsenic trioxide } | | | | 0.8 mg/kg | 1.32 | 0.896 mg/kg | 0.0000896 % | ✓ | |
| | 033-003-00-0 | 215-481-4 | 1327-53-3 | | | | | | | |
| 6 | barium { barium sulfate } | | | | 68 mg/kg | 1.7 | 98.021 mg/kg | 0.0098 % | ✓ | |
| | | 231-784-4 | 7727-43-7 | | | | | | | |
| 7 | cadmium { cadmium sulfide } | | | 1 | <0.1 mg/kg | 1.285 | <0.129 mg/kg | <0.00001 % | | <LOD |
| | 048-010-00-4 | 215-147-8 | 1306-23-6 | | | | | | | |
| 8 | chromium in chromium(III) compounds { chromium(III) oxide } | | | | 31.5 mg/kg | 1.462 | 39.049 mg/kg | 0.0039 % | ✓ | |
| | | 215-160-9 | 1308-38-9 | | | | | | | |
| 9 | copper { dicopper oxide; copper (I) oxide } | | | | 19 mg/kg | 1.126 | 18.144 mg/kg | 0.00181 % | ✓ | |
| | 029-002-00-X | 215-270-7 | 1317-39-1 | | | | | | | |
| 10 | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } | | | 1 | 11 mg/kg | | 9.33 mg/kg | 0.000933 % | ✓ | |
| | 082-001-00-6 | | | | | | | | | |
| 11 | mercury { mercury dichloride } | | | | <0.1 mg/kg | 1.353 | <0.135 mg/kg | <0.0000135 % | | <LOD |
| | 080-010-00-X | 231-299-8 | 7487-94-7 | | | | | | | |
| 12 | nickel { nickel dihydroxide } | | | | 42.6 mg/kg | 1.579 | 57.071 mg/kg | 0.00571 % | ✓ | |
| | 028-008-00-X | 235-008-5 [1] 234-348-1 [2] | 12054-48-7 [1] 11113-74-9 [2] | | | | | | | |
| 13 | selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } | | | | 1 mg/kg | 2.554 | 2.166 mg/kg | 0.000217 % | ✓ | |
| | 034-002-00-8 | | | | | | | | | |

| # | Determinand | | | CLP Note | User entered data | | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|--------|--|--------------------------------|---|----------|-------------------|-------|--------------|----------------|-------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | | |
| 14 | vanadium { divanadium pentaoxide; vanadium pentoxide } | | | | 31 | mg/kg | 1.785 | 46.939 | mg/kg | 0.00469 % | ✓ | |
| | 023-001-00-8 | 215-239-8 | 1314-62-1 | | | | | | | | | |
| 15 | boron { boron tribromide/trichloride/trifluoride (combined) } | | | | 0.3 | mg/kg | 13.43 | 3.417 | mg/kg | 0.000342 % | ✓ | |
| | | | 10294-33-4, 10294-34-5, 7637-07-2 | | | | | | | | | |
| 16 | zinc { zinc sulphate } | | | | 104 | mg/kg | 2.469 | 217.817 | mg/kg | 0.0218 % | ✓ | |
| | 030-006-00-9 | 231-793-3 [1] 231-793-3 [2] | 7446-19-7 [1] 7733-02-0 [2] | | | | | | | | | |
| 17 | chromium in chromium(VI) compounds { chromium(VI) oxide } | | | | <0.3 | mg/kg | 1.923 | <0.577 | mg/kg | <0.0000577 % | | <LOD |
| | 024-001-00-0 | 215-607-8 | 1333-82-0 | | | | | | | | | |
| 18 | TPH (C6 to C40) petroleum group | | | | <52 | mg/kg | | <52 | mg/kg | <0.0052 % | | <LOD |
| | | | TPH | | | | | | | | | |
| 19 | naphthalene | | | | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | 601-052-00-2 | 202-049-5 | 91-20-3 | | | | | | | | | |
| 20 | acenaphthylene | | | | <0.03 | mg/kg | | <0.03 | mg/kg | <0.000003 % | | <LOD |
| | | 205-917-1 | 208-96-8 | | | | | | | | | |
| 21 | acenaphthene | | | | <0.05 | mg/kg | | <0.05 | mg/kg | <0.000005 % | | <LOD |
| | | 201-469-6 | 83-32-9 | | | | | | | | | |
| 22 | fluorene | | | | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | | 201-695-5 | 86-73-7 | | | | | | | | | |
| 23 | phenanthrene | | | | <0.03 | mg/kg | | <0.03 | mg/kg | <0.000003 % | | <LOD |
| | | 201-581-5 | 85-01-8 | | | | | | | | | |
| 24 | anthracene | | | | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | | 204-371-1 | 120-12-7 | | | | | | | | | |
| 25 | fluoranthene | | | | <0.03 | mg/kg | | <0.03 | mg/kg | <0.000003 % | | <LOD |
| | | 205-912-4 | 206-44-0 | | | | | | | | | |
| 26 | pyrene | | | | <0.03 | mg/kg | | <0.03 | mg/kg | <0.000003 % | | <LOD |
| | | 204-927-3 | 129-00-0 | | | | | | | | | |
| 27 | benzo[a]anthracene | | | | <0.06 | mg/kg | | <0.06 | mg/kg | <0.000006 % | | <LOD |
| | 601-033-00-9 | 200-280-6 | 56-55-3 | | | | | | | | | |
| 28 | chrysene | | | | <0.02 | mg/kg | | <0.02 | mg/kg | <0.000002 % | | <LOD |
| | 601-048-00-0 | 205-923-4 | 218-01-9 | | | | | | | | | |
| 29 | benzo[b]fluoranthene | | | | <0.05 | mg/kg | | <0.05 | mg/kg | <0.000005 % | | <LOD |
| | 601-034-00-4 | 205-911-9 | 205-99-2 | | | | | | | | | |
| 30 | benzo[k]fluoranthene | | | | <0.02 | mg/kg | | <0.02 | mg/kg | <0.000002 % | | <LOD |
| | 601-036-00-5 | 205-916-6 | 207-08-9 | | | | | | | | | |
| 31 | benzo[a]pyrene; benzo[def]chrysene | | | | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | 601-032-00-3 | 200-028-5 | 50-32-8 | | | | | | | | | |
| 32 | indeno[123-cd]pyrene | | | | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | | 205-893-2 | 193-39-5 | | | | | | | | | |
| 33 | dibenz[a,h]anthracene | | | | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | 601-041-00-2 | 200-181-8 | 53-70-3 | | | | | | | | | |
| 34 | benzo[ghi]perylene | | | | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | | 205-883-8 | 191-24-2 | | | | | | | | | |
| Total: | | | | | | | | | | 0.0549 % | | |

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 Determinand - 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

Classification of sample: 57629/TP#8-1

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

Sample details

| | |
|-------------------------|---|
| Sample Name: | LoW Code: |
| 57629/TP#8-1 | Chapter: |
| Moisture content: | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| 34% | Entry: |
| (dry weight correction) | 17 05 04 (Soil and stones other than those mentioned in 17 05 03) |

Hazard properties

None identified


Determinands

Moisture content: 34% Dry Weight Moisture Correction applied (MC)

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|----|--|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | |
| 1 | pH | | | | 6.48 pH | | 6.48 pH | 6.48 pH | | |
| 2 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } | | | | <0.5 mg/kg | 1.884 | <0.942 mg/kg | <0.0000942 % | | <LOD |
| | 006-007-00-5 | | | | | | | | | |
| 3 | phenol | | | | <0.01 mg/kg | | <0.01 mg/kg | <0.000001 % | | <LOD |
| | 604-001-00-2 | 203-632-7 | 108-95-2 | | | | | | | |
| 4 | antimony { antimony trioxide } | | | | 6 mg/kg | 1.197 | 5.36 mg/kg | 0.000536 % | ✓ | |
| | 051-005-00-X | 215-175-0 | 1309-64-4 | | | | | | | |
| 5 | arsenic { arsenic trioxide } | | | | 27.1 mg/kg | 1.32 | 26.702 mg/kg | 0.00267 % | ✓ | |
| | 033-003-00-0 | 215-481-4 | 1327-53-3 | | | | | | | |
| 6 | barium { barium sulfate } | | | | 246 mg/kg | 1.7 | 312.001 mg/kg | 0.0312 % | ✓ | |
| | | 231-784-4 | 7727-43-7 | | | | | | | |
| 7 | cadmium { cadmium sulfide } | | | 1 | 0.4 mg/kg | 1.285 | 0.384 mg/kg | 0.0000299 % | ✓ | |
| | 048-010-00-4 | 215-147-8 | 1306-23-6 | | | | | | | |
| 8 | chromium in chromium(III) compounds { chromium(III) oxide } | | | | 34.2 mg/kg | 1.462 | 37.302 mg/kg | 0.00373 % | ✓ | |
| | | 215-160-9 | 1308-38-9 | | | | | | | |
| 9 | copper { dicopper oxide; copper (I) oxide } | | | | 61 mg/kg | 1.126 | 51.253 mg/kg | 0.00513 % | ✓ | |
| | 029-002-00-X | 215-270-7 | 1317-39-1 | | | | | | | |
| 10 | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } | | | 1 | 109 mg/kg | | 81.343 mg/kg | 0.00813 % | ✓ | |
| | 082-001-00-6 | | | | | | | | | |
| 11 | mercury { mercury dichloride } | | | | <0.1 mg/kg | 1.353 | <0.135 mg/kg | <0.0000135 % | | <LOD |
| | 080-010-00-X | 231-299-8 | 7487-94-7 | | | | | | | |
| 12 | nickel { nickel dihydroxide } | | | | 20.4 mg/kg | 1.579 | 24.046 mg/kg | 0.0024 % | ✓ | |
| | 028-008-00-X | 235-008-5 [1] 234-348-1 [2] | 12054-48-7 [1] 11113-74-9 [2] | | | | | | | |
| 13 | selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } | | | | 2 mg/kg | 2.554 | 3.811 mg/kg | 0.000381 % | ✓ | |
| | 034-002-00-8 | | | | | | | | | |

| # | Determinand | | | CLP Note | User entered data | | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|--------|---|--------------|-----------------------------------|-----------------------------|-------------------|-------|--------------|----------------|-------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | | |
| 14 | vanadium { divanadium pentaoxide; vanadium pentoxide } | 023-001-00-8 | 215-239-8 | 1314-62-1 | 40 | mg/kg | 1.785 | 53.289 | mg/kg | 0.00533 % | ✓ | |
| 15 | boron { boron tribromide/trichloride/trifluoride (combined) } | | 10294-33-4, 10294-34-5, 7637-07-2 | | 1.4 | mg/kg | 13.43 | 14.031 | mg/kg | 0.0014 % | ✓ | |
| 16 | zinc { zinc sulphate } | 030-006-00-9 | 231-793-3 [1] 231-793-3 [2] | 7446-19-7 [1] 7733-02-0 [2] | 144 | mg/kg | 2.469 | 265.357 | mg/kg | 0.0265 % | ✓ | |
| 17 | chromium in chromium(VI) compounds { chromium(VI) oxide } | 024-001-00-0 | 215-607-8 | 1333-82-0 | <0.3 | mg/kg | 1.923 | <0.577 | mg/kg | <0.0000577 % | | <LOD |
| 18 | TPH (C6 to C40) petroleum group | | TPH | | 104 | mg/kg | | 77.612 | mg/kg | 0.00776 % | ✓ | |
| 19 | naphthalene | 601-052-00-2 | 202-049-5 | 91-20-3 | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| 20 | acenaphthylene | | 205-917-1 | 208-96-8 | 0.08 | mg/kg | | 0.0597 | mg/kg | 0.00000597 % | ✓ | |
| 21 | acenaphthene | | 201-469-6 | 83-32-9 | <0.05 | mg/kg | | <0.05 | mg/kg | <0.000005 % | | <LOD |
| 22 | fluorene | | 201-695-5 | 86-73-7 | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| 23 | phenanthrene | | 201-581-5 | 85-01-8 | 0.48 | mg/kg | | 0.358 | mg/kg | 0.0000358 % | ✓ | |
| 24 | anthracene | | 204-371-1 | 120-12-7 | 0.13 | mg/kg | | 0.097 | mg/kg | 0.0000097 % | ✓ | |
| 25 | fluoranthene | | 205-912-4 | 206-44-0 | 0.55 | mg/kg | | 0.41 | mg/kg | 0.000041 % | ✓ | |
| 26 | pyrene | | 204-927-3 | 129-00-0 | 0.44 | mg/kg | | 0.328 | mg/kg | 0.0000328 % | ✓ | |
| 27 | benzo[a]anthracene | 601-033-00-9 | 200-280-6 | 56-55-3 | 0.36 | mg/kg | | 0.269 | mg/kg | 0.0000269 % | ✓ | |
| 28 | chrysene | 601-048-00-0 | 205-923-4 | 218-01-9 | 0.28 | mg/kg | | 0.209 | mg/kg | 0.0000209 % | ✓ | |
| 29 | benzo[b]fluoranthene | 601-034-00-4 | 205-911-9 | 205-99-2 | 0.31 | mg/kg | | 0.231 | mg/kg | 0.0000231 % | ✓ | |
| 30 | benzo[k]fluoranthene | 601-036-00-5 | 205-916-6 | 207-08-9 | 0.12 | mg/kg | | 0.0896 | mg/kg | 0.00000896 % | ✓ | |
| 31 | benzo[a]pyrene; benzo[def]chrysene | 601-032-00-3 | 200-028-5 | 50-32-8 | 0.19 | mg/kg | | 0.142 | mg/kg | 0.0000142 % | ✓ | |
| 32 | indeno[123-cd]pyrene | | 205-893-2 | 193-39-5 | 0.15 | mg/kg | | 0.112 | mg/kg | 0.0000112 % | ✓ | |
| 33 | dibenz[a,h]anthracene | 601-041-00-2 | 200-181-8 | 53-70-3 | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| 34 | benzo[ghi]perylene | | 205-883-8 | 191-24-2 | 0.12 | mg/kg | | 0.0896 | mg/kg | 0.00000896 % | ✓ | |
| Total: | | | | | | | | | | 0.0957 % | | |

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 Determinand - 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 because There is no evidence of hydrocarbons being present as fuel based hydrocarbons and there is no free product, olfactory or visual evidence of hydrocarbons, the material is in a refractory matrix and the hydrocarbon level is very low with no volatile components.


Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00776%)

Classification of sample: 57629/TP#8-2

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

Sample details

| | |
|-------------------------|---|
| Sample Name: | LoW Code: |
| 57629/TP#8-2 | Chapter: |
| Moisture content: | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| 19.8% | Entry: |
| (dry weight correction) | 17 05 04 (Soil and stones other than those mentioned in 17 05 03) |

Hazard properties

None identified


Determinands

Moisture content: 19.8% Dry Weight Moisture Correction applied (MC)

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|----|--|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|-------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | |
| 1 | pH | | | | 6.57 pH | | 6.57 | pH | 6.57 pH | | |
| 2 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } | | | | <0.5 mg/kg | 1.884 | <0.942 | mg/kg | <0.0000942 % | | <LOD |
| | 006-007-00-5 | | | | | | | | | | |
| 3 | phenol | | | | <0.01 mg/kg | | <0.01 | mg/kg | <0.000001 % | | <LOD |
| | 604-001-00-2 | 203-632-7 | 108-95-2 | | | | | | | | |
| 4 | antimony { antimony trioxide } | | | | 2 mg/kg | 1.197 | 1.999 | mg/kg | 0.0002 % | ✓ | |
| | 051-005-00-X | 215-175-0 | 1309-64-4 | | | | | | | | |
| 5 | arsenic { arsenic trioxide } | | | | 3.8 mg/kg | 1.32 | 4.188 | mg/kg | 0.000419 % | ✓ | |
| | 033-003-00-0 | 215-481-4 | 1327-53-3 | | | | | | | | |
| 6 | barium { barium sulfate } | | | | 77 mg/kg | 1.7 | 109.234 | mg/kg | 0.0109 % | ✓ | |
| | | 231-784-4 | 7727-43-7 | | | | | | | | |
| 7 | cadmium { cadmium sulfide } | | | 1 | <0.1 mg/kg | 1.285 | <0.129 | mg/kg | <0.00001 % | | <LOD |
| | 048-010-00-4 | 215-147-8 | 1306-23-6 | | | | | | | | |
| 8 | chromium in chromium(III) compounds { chromium(III) oxide } | | | | 30.6 mg/kg | 1.462 | 37.332 | mg/kg | 0.00373 % | ✓ | |
| | | 215-160-9 | 1308-38-9 | | | | | | | | |
| 9 | copper { dicopper oxide; copper (I) oxide } | | | | 18 mg/kg | 1.126 | 16.917 | mg/kg | 0.00169 % | ✓ | |
| | 029-002-00-X | 215-270-7 | 1317-39-1 | | | | | | | | |
| 10 | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } | | | 1 | <5 mg/kg | | <5 | mg/kg | <0.0005 % | | <LOD |
| | 082-001-00-6 | | | | | | | | | | |
| 11 | mercury { mercury dichloride } | | | | <0.1 mg/kg | 1.353 | <0.135 | mg/kg | <0.0000135 % | | <LOD |
| | 080-010-00-X | 231-299-8 | 7487-94-7 | | | | | | | | |
| 12 | nickel { nickel dihydroxide } | | | | 11.2 mg/kg | 1.579 | 14.767 | mg/kg | 0.00148 % | ✓ | |
| | 028-008-00-X | 235-008-5 [1] 234-348-1 [2] | 12054-48-7 [1] 11113-74-9 [2] | | | | | | | | |
| 13 | selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } | | | | <1 mg/kg | 2.554 | <2.554 | mg/kg | <0.000255 % | | <LOD |
| | 034-002-00-8 | | | | | | | | | | |

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|--------|---|-----------------------------|-----------------------------------|----------|-------------------|--------------|----------------|--------------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | |
| 14 | vanadium { divanadium pentaoxide; vanadium pentoxide } | | | | 27 mg/kg | 1.785 | 40.234 mg/kg | 0.00402 % | | ✓ | |
| | 023-001-00-8 | 215-239-8 | 1314-62-1 | | | | | | | | |
| 15 | boron { boron tribromide/trichloride/trifluoride (combined) } | | | | 0.4 mg/kg | 13.43 | 4.484 mg/kg | 0.000448 % | | ✓ | |
| | | | 10294-33-4, 10294-34-5, 7637-07-2 | | | | | | | | |
| 16 | zinc { zinc sulphate } | | | | 49 mg/kg | 2.469 | 100.998 mg/kg | 0.0101 % | | ✓ | |
| | 030-006-00-9 | 231-793-3 [1] 231-793-3 [2] | 7446-19-7 [1] 7733-02-0 [2] | | | | | | | | |
| 17 | chromium in chromium(VI) compounds { chromium(VI) oxide } | | | | <0.3 mg/kg | 1.923 | <0.577 mg/kg | <0.0000577 % | | | <LOD |
| | 024-001-00-0 | 215-607-8 | 1333-82-0 | | | | | | | | |
| 18 | TPH (C6 to C40) petroleum group | | | | <52 mg/kg | | <52 mg/kg | <0.0052 % | | | <LOD |
| | | | TPH | | | | | | | | |
| 19 | naphthalene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | 601-052-00-2 | 202-049-5 | 91-20-3 | | | | | | | | |
| 20 | acenaphthylene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | | <LOD |
| | | 205-917-1 | 208-96-8 | | | | | | | | |
| 21 | acenaphthene | | | | <0.05 mg/kg | | <0.05 mg/kg | <0.000005 % | | | <LOD |
| | | 201-469-6 | 83-32-9 | | | | | | | | |
| 22 | fluorene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 201-695-5 | 86-73-7 | | | | | | | | |
| 23 | phenanthrene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | | <LOD |
| | | 201-581-5 | 85-01-8 | | | | | | | | |
| 24 | anthracene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 204-371-1 | 120-12-7 | | | | | | | | |
| 25 | fluoranthene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | | <LOD |
| | | 205-912-4 | 206-44-0 | | | | | | | | |
| 26 | pyrene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | | <LOD |
| | | 204-927-3 | 129-00-0 | | | | | | | | |
| 27 | benzo[a]anthracene | | | | <0.06 mg/kg | | <0.06 mg/kg | <0.000006 % | | | <LOD |
| | 601-033-00-9 | 200-280-6 | 56-55-3 | | | | | | | | |
| 28 | chrysene | | | | <0.02 mg/kg | | <0.02 mg/kg | <0.000002 % | | | <LOD |
| | 601-048-00-0 | 205-923-4 | 218-01-9 | | | | | | | | |
| 29 | benzo[b]fluoranthene | | | | <0.05 mg/kg | | <0.05 mg/kg | <0.000005 % | | | <LOD |
| | 601-034-00-4 | 205-911-9 | 205-99-2 | | | | | | | | |
| 30 | benzo[k]fluoranthene | | | | <0.02 mg/kg | | <0.02 mg/kg | <0.000002 % | | | <LOD |
| | 601-036-00-5 | 205-916-6 | 207-08-9 | | | | | | | | |
| 31 | benzo[a]pyrene; benzo[def]chrysene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | 601-032-00-3 | 200-028-5 | 50-32-8 | | | | | | | | |
| 32 | indeno[123-cd]pyrene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 205-893-2 | 193-39-5 | | | | | | | | |
| 33 | dibenz[a,h]anthracene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | 601-041-00-2 | 200-181-8 | 53-70-3 | | | | | | | | |
| 34 | benzo[ghi]perylene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 205-883-8 | 191-24-2 | | | | | | | | |
| Total: | | | | | | | | | 0.0392 % | | |

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 Determinand - 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

Classification of sample: 57629/TP#9-1

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

Sample details

| | |
|-------------------------|---|
| Sample Name: | LoW Code: |
| 57629/TP#9-1 | Chapter: |
| Moisture content: | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| 34.6% | Entry: |
| (dry weight correction) | 17 05 04 (Soil and stones other than those mentioned in 17 05 03) |

Hazard properties

None identified


Determinands

Moisture content: 34.6% Dry Weight Moisture Correction applied (MC)

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|----|--|---------------|----------------|----------|-------------------|--------------|----------------|-------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | |
| 1 | pH | | | | 6.71 pH | | 6.71 | pH | 6.71 pH | | |
| 2 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } | | | | <0.5 mg/kg | 1.884 | <0.942 | mg/kg | <0.0000942 % | | <LOD |
| | 006-007-00-5 | | | | | | | | | | |
| 3 | phenol | | | | <0.01 mg/kg | | <0.01 | mg/kg | <0.000001 % | | <LOD |
| | 604-001-00-2 | 203-632-7 | 108-95-2 | | | | | | | | |
| 4 | antimony { antimony trioxide } | | | | 3 mg/kg | 1.197 | 2.668 | mg/kg | 0.000267 % | ✓ | |
| | 051-005-00-X | 215-175-0 | 1309-64-4 | | | | | | | | |
| 5 | arsenic { arsenic trioxide } | | | | 15.9 mg/kg | 1.32 | 15.597 | mg/kg | 0.00156 % | ✓ | |
| | 033-003-00-0 | 215-481-4 | 1327-53-3 | | | | | | | | |
| 6 | barium { barium sulfate } | | | | 192 mg/kg | 1.7 | 242.427 | mg/kg | 0.0242 % | ✓ | |
| | | 231-784-4 | 7727-43-7 | | | | | | | | |
| 7 | cadmium { cadmium sulfide } | | | 1 | 0.6 mg/kg | 1.285 | 0.573 | mg/kg | 0.0000446 % | ✓ | |
| | 048-010-00-4 | 215-147-8 | 1306-23-6 | | | | | | | | |
| 8 | chromium in chromium(III) compounds { chromium(III) oxide } | | | | 36 mg/kg | 1.462 | 39.091 | mg/kg | 0.00391 % | ✓ | |
| | | 215-160-9 | 1308-38-9 | | | | | | | | |
| 9 | copper { dicopper oxide; copper (I) oxide } | | | | 66 mg/kg | 1.126 | 55.207 | mg/kg | 0.00552 % | ✓ | |
| | 029-002-00-X | 215-270-7 | 1317-39-1 | | | | | | | | |
| 10 | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } | | | 1 | 92 mg/kg | | 68.351 | mg/kg | 0.00684 % | ✓ | |
| | 082-001-00-6 | | | | | | | | | | |
| 11 | mercury { mercury dichloride } | | | | 0.2 mg/kg | 1.353 | 0.201 | mg/kg | 0.0000201 % | ✓ | |
| | 080-010-00-X | 231-299-8 | 7487-94-7 | | | | | | | | |
| 12 | nickel { nickel dihydroxide } | | | | 29.2 mg/kg | 1.579 | 34.266 | mg/kg | 0.00343 % | ✓ | |
| | 028-008-00-X | 235-008-5 [1] | 12054-48-7 [1] | | | | | | | | |
| | | 234-348-1 [2] | 11113-74-9 [2] | | | | | | | | |
| 13 | selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } | | | | <1 mg/kg | 2.554 | <2.554 | mg/kg | <0.000255 % | | <LOD |
| | 034-002-00-8 | | | | | | | | | | |

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|---|--------------------------------|-----------------------------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | |
| 14 | vanadium { divanadium pentaoxide; vanadium pentoxide } | | | | 41 mg/kg | 1.785 | 54.378 mg/kg | 0.00544 % | ✓ | |
| | 023-001-00-8 | 215-239-8 | 1314-62-1 | | | | | | | |
| 15 | boron { boron tribromide/trichloride/trifluoride (combined) } | | | | 1.3 mg/kg | 13.43 | 12.971 mg/kg | 0.0013 % | ✓ | |
| | | | 10294-33-4, 10294-34-5, 7637-07-2 | | | | | | | |
| 16 | zinc { zinc sulphate } | | | | 134 mg/kg | 2.469 | 245.829 mg/kg | 0.0246 % | ✓ | |
| | 030-006-00-9 | 231-793-3 [1] 231-793-3 [2] | 7446-19-7 [1] 7733-02-0 [2] | | | | | | | |
| 17 | chromium in chromium(VI) compounds { chromium(VI) oxide } | | | | <0.3 mg/kg | 1.923 | <0.577 mg/kg | <0.0000577 % | | <LOD |
| | 024-001-00-0 | 215-607-8 | 1333-82-0 | | | | | | | |
| 18 | TPH (C6 to C40) petroleum group | | | | <52 mg/kg | | <52 mg/kg | <0.0052 % | | <LOD |
| | | | TPH | | | | | | | |
| 19 | naphthalene | | | | 0.05 mg/kg | | 0.0371 mg/kg | 0.00000371 % | ✓ | |
| | 601-052-00-2 | 202-049-5 | 91-20-3 | | | | | | | |
| 20 | acenaphthylene | | | | 0.09 mg/kg | | 0.0669 mg/kg | 0.00000669 % | ✓ | |
| | | 205-917-1 | 208-96-8 | | | | | | | |
| 21 | acenaphthene | | | | <0.05 mg/kg | | <0.05 mg/kg | <0.000005 % | | <LOD |
| | | 201-469-6 | 83-32-9 | | | | | | | |
| 22 | fluorene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | <LOD |
| | | 201-695-5 | 86-73-7 | | | | | | | |
| 23 | phenanthrene | | | | 0.67 mg/kg | | 0.498 mg/kg | 0.0000498 % | ✓ | |
| | | 201-581-5 | 85-01-8 | | | | | | | |
| 24 | anthracene | | | | 0.2 mg/kg | | 0.149 mg/kg | 0.0000149 % | ✓ | |
| | | 204-371-1 | 120-12-7 | | | | | | | |
| 25 | fluoranthene | | | | 0.94 mg/kg | | 0.698 mg/kg | 0.0000698 % | ✓ | |
| | | 205-912-4 | 206-44-0 | | | | | | | |
| 26 | pyrene | | | | 0.78 mg/kg | | 0.579 mg/kg | 0.0000579 % | ✓ | |
| | | 204-927-3 | 129-00-0 | | | | | | | |
| 27 | benzo[a]anthracene | | | | 0.63 mg/kg | | 0.468 mg/kg | 0.0000468 % | ✓ | |
| | 601-033-00-9 | 200-280-6 | 56-55-3 | | | | | | | |
| 28 | chrysene | | | | 0.47 mg/kg | | 0.349 mg/kg | 0.0000349 % | ✓ | |
| | 601-048-00-0 | 205-923-4 | 218-01-9 | | | | | | | |
| 29 | benzo[b]fluoranthene | | | | 0.5 mg/kg | | 0.371 mg/kg | 0.0000371 % | ✓ | |
| | 601-034-00-4 | 205-911-9 | 205-99-2 | | | | | | | |
| 30 | benzo[k]fluoranthene | | | | 0.2 mg/kg | | 0.149 mg/kg | 0.0000149 % | ✓ | |
| | 601-036-00-5 | 205-916-6 | 207-08-9 | | | | | | | |
| 31 | benzo[a]pyrene; benzo[def]chrysene | | | | 0.26 mg/kg | | 0.193 mg/kg | 0.0000193 % | ✓ | |
| | 601-032-00-3 | 200-028-5 | 50-32-8 | | | | | | | |
| 32 | indeno[123-cd]pyrene | | | | 0.2 mg/kg | | 0.149 mg/kg | 0.0000149 % | ✓ | |
| | | 205-893-2 | 193-39-5 | | | | | | | |
| 33 | dibenz[a,h]anthracene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | <LOD |
| | 601-041-00-2 | 200-181-8 | 53-70-3 | | | | | | | |
| 34 | benzo[ghi]perylene | | | | 0.18 mg/kg | | 0.134 mg/kg | 0.0000134 % | ✓ | |
| | | 205-883-8 | 191-24-2 | | | | | | | |
| Total: | | | | | | | | 0.0831 % | | |

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 Determinand - 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

Classification of sample: 57629/TP#9-2

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

Sample details

| | |
|-------------------------|---|
| Sample Name: | LoW Code: |
| 57629/TP#9-2 | Chapter: |
| Moisture content: | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| 18.5% | Entry: |
| (dry weight correction) | 17 05 04 (Soil and stones other than those mentioned in 17 05 03) |

Hazard properties

None identified


Determinands

Moisture content: 18.5% Dry Weight Moisture Correction applied (MC)

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|----|--|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|-------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | |
| 1 | pH | | | | 7.15 pH | | 7.15 | pH | 7.15 pH | | |
| 2 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } | | | | <0.5 mg/kg | 1.884 | <0.942 | mg/kg | <0.0000942 % | | <LOD |
| | 006-007-00-5 | | | | | | | | | | |
| 3 | phenol | | | | <0.01 mg/kg | | <0.01 | mg/kg | <0.000001 % | | <LOD |
| | 604-001-00-2 | 203-632-7 | 108-95-2 | | | | | | | | |
| 4 | antimony { antimony trioxide } | | | | 2 mg/kg | 1.197 | 2.02 | mg/kg | 0.000202 % | ✓ | |
| | 051-005-00-X | 215-175-0 | 1309-64-4 | | | | | | | | |
| 5 | arsenic { arsenic trioxide } | | | | 6.2 mg/kg | 1.32 | 6.908 | mg/kg | 0.000691 % | ✓ | |
| | 033-003-00-0 | 215-481-4 | 1327-53-3 | | | | | | | | |
| 6 | barium { barium sulfate } | | | | 101 mg/kg | 1.7 | 144.853 | mg/kg | 0.0145 % | ✓ | |
| | | 231-784-4 | 7727-43-7 | | | | | | | | |
| 7 | cadmium { cadmium sulfide } | | | 1 | <0.1 mg/kg | 1.285 | <0.129 | mg/kg | <0.00001 % | | <LOD |
| | 048-010-00-4 | 215-147-8 | 1306-23-6 | | | | | | | | |
| 8 | chromium in chromium(III) compounds { chromium(III) oxide } | | | | 32 mg/kg | 1.462 | 39.468 | mg/kg | 0.00395 % | ✓ | |
| | | 215-160-9 | 1308-38-9 | | | | | | | | |
| 9 | copper { dicopper oxide; copper (I) oxide } | | | | 25 mg/kg | 1.126 | 23.753 | mg/kg | 0.00238 % | ✓ | |
| | 029-002-00-X | 215-270-7 | 1317-39-1 | | | | | | | | |
| 10 | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } | | | 1 | 11 mg/kg | | 9.283 | mg/kg | 0.000928 % | ✓ | |
| | 082-001-00-6 | | | | | | | | | | |
| 11 | mercury { mercury dichloride } | | | | <0.1 mg/kg | 1.353 | <0.135 | mg/kg | <0.0000135 % | | <LOD |
| | 080-010-00-X | 231-299-8 | 7487-94-7 | | | | | | | | |
| 12 | nickel { nickel dihydroxide } | | | | 26 mg/kg | 1.579 | 34.656 | mg/kg | 0.00347 % | ✓ | |
| | 028-008-00-X | 235-008-5 [1] 234-348-1 [2] | 12054-48-7 [1] 11113-74-9 [2] | | | | | | | | |
| 13 | selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } | | | | 1 mg/kg | 2.554 | 2.155 | mg/kg | 0.000215 % | ✓ | |
| | 034-002-00-8 | | | | | | | | | | |

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|--------|---|--------------------------------|---|----------|-------------------|--------------|----------------|--------------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | |
| 14 | vanadium { divanadium pentaoxide; vanadium pentoxide } | | | | 30 mg/kg | 1.785 | 45.195 mg/kg | 0.00452 % | | ✓ | |
| | 023-001-00-8 | 215-239-8 | 1314-62-1 | | | | | | | | |
| 15 | boron { boron tribromide/trichloride/trifluoride (combined) } | | | | 0.6 mg/kg | 13.43 | 6.8 mg/kg | 0.00068 % | | ✓ | |
| | | | 10294-33-4, 10294-34-5, 7637-07-2 | | | | | | | | |
| 16 | zinc { zinc sulphate } | | | | 60 mg/kg | 2.469 | 125.028 mg/kg | 0.0125 % | | ✓ | |
| | 030-006-00-9 | 231-793-3 [1] 231-793-3 [2] | 7446-19-7 [1] 7733-02-0 [2] | | | | | | | | |
| 17 | chromium in chromium(VI) compounds { chromium(VI) oxide } | | | | <0.3 mg/kg | 1.923 | <0.577 mg/kg | <0.0000577 % | | | <LOD |
| | 024-001-00-0 | 215-607-8 | 1333-82-0 | | | | | | | | |
| 18 | TPH (C6 to C40) petroleum group | | | | <52 mg/kg | | <52 mg/kg | <0.0052 % | | | <LOD |
| | | | TPH | | | | | | | | |
| 19 | naphthalene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | 601-052-00-2 | 202-049-5 | 91-20-3 | | | | | | | | |
| 20 | acenaphthylene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | | <LOD |
| | | 205-917-1 | 208-96-8 | | | | | | | | |
| 21 | acenaphthene | | | | <0.05 mg/kg | | <0.05 mg/kg | <0.000005 % | | | <LOD |
| | | 201-469-6 | 83-32-9 | | | | | | | | |
| 22 | fluorene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 201-695-5 | 86-73-7 | | | | | | | | |
| 23 | phenanthrene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | | <LOD |
| | | 201-581-5 | 85-01-8 | | | | | | | | |
| 24 | anthracene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 204-371-1 | 120-12-7 | | | | | | | | |
| 25 | fluoranthene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | | <LOD |
| | | 205-912-4 | 206-44-0 | | | | | | | | |
| 26 | pyrene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | | <LOD |
| | | 204-927-3 | 129-00-0 | | | | | | | | |
| 27 | benzo[a]anthracene | | | | <0.06 mg/kg | | <0.06 mg/kg | <0.000006 % | | | <LOD |
| | 601-033-00-9 | 200-280-6 | 56-55-3 | | | | | | | | |
| 28 | chrysene | | | | <0.02 mg/kg | | <0.02 mg/kg | <0.000002 % | | | <LOD |
| | 601-048-00-0 | 205-923-4 | 218-01-9 | | | | | | | | |
| 29 | benzo[b]fluoranthene | | | | <0.05 mg/kg | | <0.05 mg/kg | <0.000005 % | | | <LOD |
| | 601-034-00-4 | 205-911-9 | 205-99-2 | | | | | | | | |
| 30 | benzo[k]fluoranthene | | | | <0.02 mg/kg | | <0.02 mg/kg | <0.000002 % | | | <LOD |
| | 601-036-00-5 | 205-916-6 | 207-08-9 | | | | | | | | |
| 31 | benzo[a]pyrene; benzo[def]chrysene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | 601-032-00-3 | 200-028-5 | 50-32-8 | | | | | | | | |
| 32 | indeno[123-cd]pyrene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 205-893-2 | 193-39-5 | | | | | | | | |
| 33 | dibenz[a,h]anthracene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | 601-041-00-2 | 200-181-8 | 53-70-3 | | | | | | | | |
| 34 | benzo[ghi]perylene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 205-883-8 | 191-24-2 | | | | | | | | |
| Total: | | | | | | | | | 0.0494 % | | |

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 Determinand - 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

Classification of sample: 57629/TP#10-1

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

Sample details

| | |
|-------------------------|---|
| Sample Name: | LoW Code: |
| 57629/TP#10-1 | Chapter: |
| Moisture content: | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| 27.7% | Entry: |
| (dry weight correction) | 17 05 04 (Soil and stones other than those mentioned in 17 05 03) |

Hazard properties

None identified


Determinands

Moisture content: 27.7% Dry Weight Moisture Correction applied (MC)


| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|----|--|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|-------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | |
| 1 | pH | | | | 6.48 pH | | 6.48 | pH | 6.48 pH | | |
| 2 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } | | | | <0.5 mg/kg | 1.884 | <0.942 | mg/kg | <0.0000942 % | | <LOD |
| | 006-007-00-5 | | | | | | | | | | |
| 3 | phenol | | | | <0.01 mg/kg | | <0.01 | mg/kg | <0.000001 % | | <LOD |
| | 604-001-00-2 | 203-632-7 | 108-95-2 | | | | | | | | |
| 4 | antimony { antimony trioxide } | | | | 4 mg/kg | 1.197 | 3.75 | mg/kg | 0.000375 % | ✓ | |
| | 051-005-00-X | 215-175-0 | 1309-64-4 | | | | | | | | |
| 5 | arsenic { arsenic trioxide } | | | | 18.1 mg/kg | 1.32 | 18.714 | mg/kg | 0.00187 % | ✓ | |
| | 033-003-00-0 | 215-481-4 | 1327-53-3 | | | | | | | | |
| 6 | barium { barium sulfate } | | | | 215 mg/kg | 1.7 | 286.136 | mg/kg | 0.0286 % | ✓ | |
| | | 231-784-4 | 7727-43-7 | | | | | | | | |
| 7 | cadmium { cadmium sulfide } | | | 1 | 0.6 mg/kg | 1.285 | 0.604 | mg/kg | 0.000047 % | ✓ | |
| | 048-010-00-4 | 215-147-8 | 1306-23-6 | | | | | | | | |
| 8 | chromium in chromium(III) compounds { chromium(III) oxide } | | | | 39.5 mg/kg | 1.462 | 45.209 | mg/kg | 0.00452 % | ✓ | |
| | | 215-160-9 | 1308-38-9 | | | | | | | | |
| 9 | copper { dicopper oxide; copper (I) oxide } | | | | 52 mg/kg | 1.126 | 45.847 | mg/kg | 0.00458 % | ✓ | |
| | 029-002-00-X | 215-270-7 | 1317-39-1 | | | | | | | | |
| 10 | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } | | | 1 | 97 mg/kg | | 75.959 | mg/kg | 0.0076 % | ✓ | |
| | 082-001-00-6 | | | | | | | | | | |
| 11 | mercury { mercury dichloride } | | | | <0.1 mg/kg | 1.353 | <0.135 | mg/kg | <0.0000135 % | | <LOD |
| | 080-010-00-X | 231-299-8 | 7487-94-7 | | | | | | | | |
| 12 | nickel { nickel dihydroxide } | | | | 30 mg/kg | 1.579 | 37.106 | mg/kg | 0.00371 % | ✓ | |
| | 028-008-00-X | 235-008-5 [1] 234-348-1 [2] | 12054-48-7 [1] 11113-74-9 [2] | | | | | | | | |
| 13 | selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } | | | | 2 mg/kg | 2.554 | 3.999 | mg/kg | 0.0004 % | ✓ | |
| | 034-002-00-8 | | | | | | | | | | |

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|--------|---|-----------------------------|-----------------------------------|----------|-------------------|--------------|----------------|-------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | |
| 14 | vanadium { divanadium pentaoxide; vanadium pentoxide } | | | | 49 mg/kg | 1.785 | 68.5 | mg/kg | 0.00685 % | ✓ | |
| | 023-001-00-8 | 215-239-8 | 1314-62-1 | | | | | | | | |
| 15 | boron { boron tribromide/trichloride/trifluoride (combined) } | | | | 1.3 mg/kg | 13.43 | 13.672 | mg/kg | 0.00137 % | ✓ | |
| | | | 10294-33-4, 10294-34-5, 7637-07-2 | | | | | | | | |
| 16 | zinc { zinc sulphate } | | | | 140 mg/kg | 2.469 | 270.714 | mg/kg | 0.0271 % | ✓ | |
| | 030-006-00-9 | 231-793-3 [1] 231-793-3 [2] | 7446-19-7 [1] 7733-02-0 [2] | | | | | | | | |
| 17 | chromium in chromium(VI) compounds { chromium(VI) oxide } | | | | <0.3 mg/kg | 1.923 | <0.577 | mg/kg | <0.0000577 % | | <LOD |
| | 024-001-00-0 | 215-607-8 | 1333-82-0 | | | | | | | | |
| 18 | TPH (C6 to C40) petroleum group | | | | <52 mg/kg | | <52 | mg/kg | <0.0052 % | | <LOD |
| | | | TPH | | | | | | | | |
| 19 | naphthalene | | | | 0.1 mg/kg | | 0.0783 | mg/kg | 0.00000783 % | ✓ | |
| | 601-052-00-2 | 202-049-5 | 91-20-3 | | | | | | | | |
| 20 | acenaphthylene | | | | <0.03 mg/kg | | <0.03 | mg/kg | <0.000003 % | | <LOD |
| | | 205-917-1 | 208-96-8 | | | | | | | | |
| 21 | acenaphthene | | | | <0.05 mg/kg | | <0.05 | mg/kg | <0.000005 % | | <LOD |
| | | 201-469-6 | 83-32-9 | | | | | | | | |
| 22 | fluorene | | | | <0.04 mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | | 201-695-5 | 86-73-7 | | | | | | | | |
| 23 | phenanthrene | | | | 0.18 mg/kg | | 0.141 | mg/kg | 0.0000141 % | ✓ | |
| | | 201-581-5 | 85-01-8 | | | | | | | | |
| 24 | anthracene | | | | <0.04 mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | | 204-371-1 | 120-12-7 | | | | | | | | |
| 25 | fluoranthene | | | | 0.31 mg/kg | | 0.243 | mg/kg | 0.0000243 % | ✓ | |
| | | 205-912-4 | 206-44-0 | | | | | | | | |
| 26 | pyrene | | | | 0.26 mg/kg | | 0.204 | mg/kg | 0.0000204 % | ✓ | |
| | | 204-927-3 | 129-00-0 | | | | | | | | |
| 27 | benzo[a]anthracene | | | | 0.22 mg/kg | | 0.172 | mg/kg | 0.0000172 % | ✓ | |
| | 601-033-00-9 | 200-280-6 | 56-55-3 | | | | | | | | |
| 28 | chrysene | | | | 0.14 mg/kg | | 0.11 | mg/kg | 0.000011 % | ✓ | |
| | 601-048-00-0 | 205-923-4 | 218-01-9 | | | | | | | | |
| 29 | benzo[b]fluoranthene | | | | 0.19 mg/kg | | 0.149 | mg/kg | 0.0000149 % | ✓ | |
| | 601-034-00-4 | 205-911-9 | 205-99-2 | | | | | | | | |
| 30 | benzo[k]fluoranthene | | | | 0.08 mg/kg | | 0.0626 | mg/kg | 0.00000626 % | ✓ | |
| | 601-036-00-5 | 205-916-6 | 207-08-9 | | | | | | | | |
| 31 | benzo[a]pyrene; benzo[def]chrysene | | | | 0.12 mg/kg | | 0.094 | mg/kg | 0.0000094 % | ✓ | |
| | 601-032-00-3 | 200-028-5 | 50-32-8 | | | | | | | | |
| 32 | indeno[123-cd]pyrene | | | | 0.09 mg/kg | | 0.0705 | mg/kg | 0.00000705 % | ✓ | |
| | | 205-893-2 | 193-39-5 | | | | | | | | |
| 33 | dibenz[a,h]anthracene | | | | <0.04 mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | 601-041-00-2 | 200-181-8 | 53-70-3 | | | | | | | | |
| 34 | benzo[ghi]perylene | | | | 0.09 mg/kg | | 0.0705 | mg/kg | 0.00000705 % | ✓ | |
| | | 205-883-8 | 191-24-2 | | | | | | | | |
| Total: | | | | | | | | | 0.0925 % | | |

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 Determinand - 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

Classification of sample: 57629/TP#10-2

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

Sample details

| | |
|-------------------------|---|
| Sample Name: | LoW Code: |
| 57629/TP#10-2 | Chapter: |
| Moisture content: | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| 17.8% | Entry: |
| (dry weight correction) | 17 05 04 (Soil and stones other than those mentioned in 17 05 03) |

Hazard properties

None identified


Determinands

Moisture content: 17.8% Dry Weight Moisture Correction applied (MC)


| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|----|--|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|-------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | |
| 1 | pH | | | | 6.9 pH | | 6.9 | pH | 6.9 pH | | |
| 2 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } | | | | <0.5 mg/kg | 1.884 | <0.942 | mg/kg | <0.0000942 % | | <LOD |
| | 006-007-00-5 | | | | | | | | | | |
| 3 | phenol | | | | <0.01 mg/kg | | <0.01 | mg/kg | <0.000001 % | | <LOD |
| | 604-001-00-2 | 203-632-7 | 108-95-2 | | | | | | | | |
| 4 | antimony { antimony trioxide } | | | | 2 mg/kg | 1.197 | 2.032 | mg/kg | 0.000203 % | ✓ | |
| | 051-005-00-X | 215-175-0 | 1309-64-4 | | | | | | | | |
| 5 | arsenic { arsenic trioxide } | | | | 3.2 mg/kg | 1.32 | 3.587 | mg/kg | 0.000359 % | ✓ | |
| | 033-003-00-0 | 215-481-4 | 1327-53-3 | | | | | | | | |
| 6 | barium { barium sulfate } | | | | 145 mg/kg | 1.7 | 209.194 | mg/kg | 0.0209 % | ✓ | |
| | | 231-784-4 | 7727-43-7 | | | | | | | | |
| 7 | cadmium { cadmium sulfide } | | | 1 | 0.2 mg/kg | 1.285 | 0.218 | mg/kg | 0.000017 % | ✓ | |
| | 048-010-00-4 | 215-147-8 | 1306-23-6 | | | | | | | | |
| 8 | chromium in chromium(III) compounds { chromium(III) oxide } | | | | 34.2 mg/kg | 1.462 | 42.432 | mg/kg | 0.00424 % | ✓ | |
| | | 215-160-9 | 1308-38-9 | | | | | | | | |
| 9 | copper { dicopper oxide; copper (I) oxide } | | | | 31 mg/kg | 1.126 | 29.629 | mg/kg | 0.00296 % | ✓ | |
| | 029-002-00-X | 215-270-7 | 1317-39-1 | | | | | | | | |
| 10 | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } | | | 1 | 26 mg/kg | | 22.071 | mg/kg | 0.00221 % | ✓ | |
| | 082-001-00-6 | | | | | | | | | | |
| 11 | mercury { mercury dichloride } | | | | <0.1 mg/kg | 1.353 | <0.135 | mg/kg | <0.0000135 % | | <LOD |
| | 080-010-00-X | 231-299-8 | 7487-94-7 | | | | | | | | |
| 12 | nickel { nickel dihydroxide } | | | | 32.4 mg/kg | 1.579 | 43.443 | mg/kg | 0.00434 % | ✓ | |
| | 028-008-00-X | 235-008-5 [1] 234-348-1 [2] | 12054-48-7 [1] 11113-74-9 [2] | | | | | | | | |
| 13 | selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } | | | | 1 mg/kg | 2.554 | 2.168 | mg/kg | 0.000217 % | ✓ | |
| | 034-002-00-8 | | | | | | | | | | |

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|--------|---|--------------------------------|-----------------------------------|----------|-------------------|--------------|----------------|--------------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | |
| 14 | vanadium { divanadium pentaoxide; vanadium pentoxide } | | | | 31 mg/kg | 1.785 | 46.979 mg/kg | 0.0047 % | | ✓ | |
| | 023-001-00-8 | 215-239-8 | 1314-62-1 | | | | | | | | |
| 15 | boron { boron tribromide/trichloride/trifluoride (combined) } | | | | 0.5 mg/kg | 13.43 | 5.7 mg/kg | 0.00057 % | | ✓ | |
| | | | 10294-33-4, 10294-34-5, 7637-07-2 | | | | | | | | |
| 16 | zinc { zinc sulphate } | | | | 143 mg/kg | 2.469 | 299.753 mg/kg | 0.03 % | | ✓ | |
| | 030-006-00-9 | 231-793-3 [1] 231-793-3 [2] | 7446-19-7 [1] 7733-02-0 [2] | | | | | | | | |
| 17 | chromium in chromium(VI) compounds { chromium(VI) oxide } | | | | <0.3 mg/kg | 1.923 | <0.577 mg/kg | <0.0000577 % | | | <LOD |
| | 024-001-00-0 | 215-607-8 | 1333-82-0 | | | | | | | | |
| 18 | TPH (C6 to C40) petroleum group | | | | <52 mg/kg | | <52 mg/kg | <0.0052 % | | | <LOD |
| | | | TPH | | | | | | | | |
| 19 | naphthalene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | 601-052-00-2 | 202-049-5 | 91-20-3 | | | | | | | | |
| 20 | acenaphthylene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | | <LOD |
| | | 205-917-1 | 208-96-8 | | | | | | | | |
| 21 | acenaphthene | | | | <0.05 mg/kg | | <0.05 mg/kg | <0.000005 % | | | <LOD |
| | | 201-469-6 | 83-32-9 | | | | | | | | |
| 22 | fluorene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 201-695-5 | 86-73-7 | | | | | | | | |
| 23 | phenanthrene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | | <LOD |
| | | 201-581-5 | 85-01-8 | | | | | | | | |
| 24 | anthracene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 204-371-1 | 120-12-7 | | | | | | | | |
| 25 | fluoranthene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | | <LOD |
| | | 205-912-4 | 206-44-0 | | | | | | | | |
| 26 | pyrene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | | <LOD |
| | | 204-927-3 | 129-00-0 | | | | | | | | |
| 27 | benzo[a]anthracene | | | | <0.06 mg/kg | | <0.06 mg/kg | <0.000006 % | | | <LOD |
| | 601-033-00-9 | 200-280-6 | 56-55-3 | | | | | | | | |
| 28 | chrysene | | | | 0.06 mg/kg | | 0.0509 mg/kg | 0.00000509 % | | ✓ | |
| | 601-048-00-0 | 205-923-4 | 218-01-9 | | | | | | | | |
| 29 | benzo[b]fluoranthene | | | | <0.05 mg/kg | | <0.05 mg/kg | <0.000005 % | | | <LOD |
| | 601-034-00-4 | 205-911-9 | 205-99-2 | | | | | | | | |
| 30 | benzo[k]fluoranthene | | | | <0.02 mg/kg | | <0.02 mg/kg | <0.000002 % | | | <LOD |
| | 601-036-00-5 | 205-916-6 | 207-08-9 | | | | | | | | |
| 31 | benzo[a]pyrene; benzo[def]chrysene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | 601-032-00-3 | 200-028-5 | 50-32-8 | | | | | | | | |
| 32 | indeno[123-cd]pyrene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 205-893-2 | 193-39-5 | | | | | | | | |
| 33 | dibenz[a,h]anthracene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | 601-041-00-2 | 200-181-8 | 53-70-3 | | | | | | | | |
| 34 | benzo[ghi]perylene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 205-883-8 | 191-24-2 | | | | | | | | |
| Total: | | | | | | | | | 0.0761 % | | |

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 Determinand - 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

Classification of sample: 57629/TP#11-1

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

Sample details

| | |
|-------------------------|---|
| Sample Name: | LoW Code: |
| 57629/TP#11-1 | Chapter: |
| Moisture content: | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| 51.5% | Entry: |
| (dry weight correction) | 17 05 04 (Soil and stones other than those mentioned in 17 05 03) |

Hazard properties

None identified


Determinands

Moisture content: 51.5% Dry Weight Moisture Correction applied (MC)

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|----|--|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|-------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | |
| 1 | pH | | | | 6.29 pH | | 6.29 | pH | 6.29 pH | | |
| 2 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } | | | | 0.8 mg/kg | 1.884 | 0.995 | mg/kg | 0.0000995 % | ✓ | |
| | 006-007-00-5 | | | | | | | | | | |
| 3 | phenol | | | | <0.01 mg/kg | | <0.01 | mg/kg | <0.000001 % | | <LOD |
| | 604-001-00-2 | 203-632-7 | 108-95-2 | | | | | | | | |
| 4 | antimony { antimony trioxide } | | | | 3 mg/kg | 1.197 | 2.37 | mg/kg | 0.000237 % | ✓ | |
| | 051-005-00-X | 215-175-0 | 1309-64-4 | | | | | | | | |
| 5 | arsenic { arsenic trioxide } | | | | 12.2 mg/kg | 1.32 | 10.632 | mg/kg | 0.00106 % | ✓ | |
| | 033-003-00-0 | 215-481-4 | 1327-53-3 | | | | | | | | |
| 6 | barium { barium sulfate } | | | | 137 mg/kg | 1.7 | 153.686 | mg/kg | 0.0154 % | ✓ | |
| | | 231-784-4 | 7727-43-7 | | | | | | | | |
| 7 | cadmium { cadmium sulfide } | | | 1 | 0.4 mg/kg | 1.285 | 0.339 | mg/kg | 0.0000264 % | ✓ | |
| | 048-010-00-4 | 215-147-8 | 1306-23-6 | | | | | | | | |
| 8 | chromium in chromium(III) compounds { chromium(III) oxide } | | | | 36.6 mg/kg | 1.462 | 35.309 | mg/kg | 0.00353 % | ✓ | |
| | | 215-160-9 | 1308-38-9 | | | | | | | | |
| 9 | copper { dicopper oxide; copper (I) oxide } | | | | 28 mg/kg | 1.126 | 20.808 | mg/kg | 0.00208 % | ✓ | |
| | 029-002-00-X | 215-270-7 | 1317-39-1 | | | | | | | | |
| 10 | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } | | | 1 | 64 mg/kg | | 42.244 | mg/kg | 0.00422 % | ✓ | |
| | 082-001-00-6 | | | | | | | | | | |
| 11 | mercury { mercury dichloride } | | | | <0.1 mg/kg | 1.353 | <0.135 | mg/kg | <0.0000135 % | | <LOD |
| | 080-010-00-X | 231-299-8 | 7487-94-7 | | | | | | | | |
| 12 | nickel { nickel dihydroxide } | | | | 21 mg/kg | 1.579 | 21.894 | mg/kg | 0.00219 % | ✓ | |
| | 028-008-00-X | 235-008-5 [1] 234-348-1 [2] | 12054-48-7 [1] 11113-74-9 [2] | | | | | | | | |
| 13 | selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } | | | | 2 mg/kg | 2.554 | 3.371 | mg/kg | 0.000337 % | ✓ | |
| | 034-002-00-8 | | | | | | | | | | |

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|---|---------------|-----------------------------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | |
| 14 | vanadium { divanadium pentaoxide; vanadium pentoxide } | | | | 39 mg/kg | 1.785 | 45.955 mg/kg | 0.0046 % | ✓ | |
| | 023-001-00-8 | 215-239-8 | 1314-62-1 | | | | | | | |
| 15 | boron { boron tribromide/trichloride/trifluoride (combined) } | | | | 1.3 mg/kg | 13.43 | 11.524 mg/kg | 0.00115 % | ✓ | |
| | | | 10294-33-4, 10294-34-5, 7637-07-2 | | | | | | | |
| 16 | zinc { zinc sulphate } | | | | 122 mg/kg | 2.469 | 198.848 mg/kg | 0.0199 % | ✓ | |
| | 030-006-00-9 | 231-793-3 [1] | 7446-19-7 [1] | | | | | | | |
| | | 231-793-3 [2] | 7733-02-0 [2] | | | | | | | |
| 17 | chromium in chromium(VI) compounds { chromium(VI) oxide } | | | | <0.3 mg/kg | 1.923 | <0.577 mg/kg | <0.0000577 % | | <LOD |
| | 024-001-00-0 | 215-607-8 | 1333-82-0 | | | | | | | |
| 18 | TPH (C6 to C40) petroleum group | | | | <52 mg/kg | | <52 mg/kg | <0.0052 % | | <LOD |
| | | | TPH | | | | | | | |
| 19 | naphthalene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | <LOD |
| | 601-052-00-2 | 202-049-5 | 91-20-3 | | | | | | | |
| 20 | acenaphthylene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | <LOD |
| | | 205-917-1 | 208-96-8 | | | | | | | |
| 21 | acenaphthene | | | | <0.05 mg/kg | | <0.05 mg/kg | <0.000005 % | | <LOD |
| | | 201-469-6 | 83-32-9 | | | | | | | |
| 22 | fluorene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | <LOD |
| | | 201-695-5 | 86-73-7 | | | | | | | |
| 23 | phenanthrene | | | | 0.07 mg/kg | | 0.0462 mg/kg | 0.00000462 % | ✓ | |
| | | 201-581-5 | 85-01-8 | | | | | | | |
| 24 | anthracene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | <LOD |
| | | 204-371-1 | 120-12-7 | | | | | | | |
| 25 | fluoranthene | | | | 0.2 mg/kg | | 0.132 mg/kg | 0.0000132 % | ✓ | |
| | | 205-912-4 | 206-44-0 | | | | | | | |
| 26 | pyrene | | | | 0.17 mg/kg | | 0.112 mg/kg | 0.0000112 % | ✓ | |
| | | 204-927-3 | 129-00-0 | | | | | | | |
| 27 | benzo[a]anthracene | | | | 0.08 mg/kg | | 0.0528 mg/kg | 0.00000528 % | ✓ | |
| | 601-033-00-9 | 200-280-6 | 56-55-3 | | | | | | | |
| 28 | chrysene | | | | 0.11 mg/kg | | 0.0726 mg/kg | 0.00000726 % | ✓ | |
| | 601-048-00-0 | 205-923-4 | 218-01-9 | | | | | | | |
| 29 | benzo[b]fluoranthene | | | | 0.14 mg/kg | | 0.0924 mg/kg | 0.00000924 % | ✓ | |
| | 601-034-00-4 | 205-911-9 | 205-99-2 | | | | | | | |
| 30 | benzo[k]fluoranthene | | | | 0.06 mg/kg | | 0.0396 mg/kg | 0.00000396 % | ✓ | |
| | 601-036-00-5 | 205-916-6 | 207-08-9 | | | | | | | |
| 31 | benzo[a]pyrene; benzo[def]chrysene | | | | 0.1 mg/kg | | 0.066 mg/kg | 0.0000066 % | ✓ | |
| | 601-032-00-3 | 200-028-5 | 50-32-8 | | | | | | | |
| 32 | indeno[123-cd]pyrene | | | | 0.07 mg/kg | | 0.0462 mg/kg | 0.00000462 % | ✓ | |
| | | 205-893-2 | 193-39-5 | | | | | | | |
| 33 | dibenz[a,h]anthracene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | <LOD |
| | 601-041-00-2 | 200-181-8 | 53-70-3 | | | | | | | |
| 34 | benzo[ghi]perylene | | | | 0.07 mg/kg | | 0.0462 mg/kg | 0.00000462 % | ✓ | |
| | | 205-883-8 | 191-24-2 | | | | | | | |
| Total: | | | | | | | | 0.0602 % | | |

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 Determinand - 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

Classification of sample: 57629/TP#11-2

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

Sample details

| | |
|-------------------------|---|
| Sample Name: | LoW Code: |
| 57629/TP#11-2 | Chapter: |
| Moisture content: | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| 31.9% | Entry: |
| (dry weight correction) | 17 05 04 (Soil and stones other than those mentioned in 17 05 03) |

Hazard properties

None identified


Determinands

Moisture content: 31.9% Dry Weight Moisture Correction applied (MC)


| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|----|--|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|-------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | |
| 1 | pH | | | | 5.97 pH | | 5.97 | pH | 5.97 pH | | |
| 2 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } | | | | <0.5 mg/kg | 1.884 | <0.942 | mg/kg | <0.0000942 % | | <LOD |
| | 006-007-00-5 | | | | | | | | | | |
| 3 | phenol | | | | <0.01 mg/kg | | <0.01 | mg/kg | <0.000001 % | | <LOD |
| | 604-001-00-2 | 203-632-7 | 108-95-2 | | | | | | | | |
| 4 | antimony { antimony trioxide } | | | | 3 mg/kg | 1.197 | 2.723 | mg/kg | 0.000272 % | ✓ | |
| | 051-005-00-X | 215-175-0 | 1309-64-4 | | | | | | | | |
| 5 | arsenic { arsenic trioxide } | | | | 5.1 mg/kg | 1.32 | 5.105 | mg/kg | 0.000511 % | ✓ | |
| | 033-003-00-0 | 215-481-4 | 1327-53-3 | | | | | | | | |
| 6 | barium { barium sulfate } | | | | 90 mg/kg | 1.7 | 115.964 | mg/kg | 0.0116 % | ✓ | |
| | | 231-784-4 | 7727-43-7 | | | | | | | | |
| 7 | cadmium { cadmium sulfide } | | | 1 | 0.2 mg/kg | 1.285 | 0.195 | mg/kg | 0.0000152 % | ✓ | |
| | 048-010-00-4 | 215-147-8 | 1306-23-6 | | | | | | | | |
| 8 | chromium in chromium(III) compounds { chromium(III) oxide } | | | | 28.7 mg/kg | 1.462 | 31.802 | mg/kg | 0.00318 % | ✓ | |
| | | 215-160-9 | 1308-38-9 | | | | | | | | |
| 9 | copper { dicopper oxide; copper (I) oxide } | | | | 16 mg/kg | 1.126 | 13.657 | mg/kg | 0.00137 % | ✓ | |
| | 029-002-00-X | 215-270-7 | 1317-39-1 | | | | | | | | |
| 10 | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } | | | 1 | 39 mg/kg | | 29.568 | mg/kg | 0.00296 % | ✓ | |
| | 082-001-00-6 | | | | | | | | | | |
| 11 | mercury { mercury dichloride } | | | | <0.1 mg/kg | 1.353 | <0.135 | mg/kg | <0.0000135 % | | <LOD |
| | 080-010-00-X | 231-299-8 | 7487-94-7 | | | | | | | | |
| 12 | nickel { nickel dihydroxide } | | | | 18.5 mg/kg | 1.579 | 22.154 | mg/kg | 0.00222 % | ✓ | |
| | 028-008-00-X | 235-008-5 [1] 234-348-1 [2] | 12054-48-7 [1] 11113-74-9 [2] | | | | | | | | |
| 13 | selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } | | | | 2 mg/kg | 2.554 | 3.872 | mg/kg | 0.000387 % | ✓ | |
| | 034-002-00-8 | | | | | | | | | | |

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|--------|---|--------------------------------|-----------------------------------|----------|-------------------|--------------|----------------|--------------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | |
| 14 | vanadium { divanadium pentaoxide; vanadium pentoxide } | | | | 33 mg/kg | 1.785 | 44.663 mg/kg | 0.00447 % | | ✓ | |
| | 023-001-00-8 | 215-239-8 | 1314-62-1 | | | | | | | | |
| 15 | boron { boron tribromide/trichloride/trifluoride (combined) } | | | | 0.7 mg/kg | 13.43 | 7.127 mg/kg | 0.000713 % | | ✓ | |
| | | | 10294-33-4, 10294-34-5, 7637-07-2 | | | | | | | | |
| 16 | zinc { zinc sulphate } | | | | 95 mg/kg | 2.469 | 177.849 mg/kg | 0.0178 % | | ✓ | |
| | 030-006-00-9 | 231-793-3 [1] 231-793-3 [2] | 7446-19-7 [1] 7733-02-0 [2] | | | | | | | | |
| 17 | chromium in chromium(VI) compounds { chromium(VI) oxide } | | | | <0.3 mg/kg | 1.923 | <0.577 mg/kg | <0.0000577 % | | | <LOD |
| | 024-001-00-0 | 215-607-8 | 1333-82-0 | | | | | | | | |
| 18 | TPH (C6 to C40) petroleum group | | | | <52 mg/kg | | <52 mg/kg | <0.0052 % | | | <LOD |
| | | | TPH | | | | | | | | |
| 19 | naphthalene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | 601-052-00-2 | 202-049-5 | 91-20-3 | | | | | | | | |
| 20 | acenaphthylene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | | <LOD |
| | | 205-917-1 | 208-96-8 | | | | | | | | |
| 21 | acenaphthene | | | | <0.05 mg/kg | | <0.05 mg/kg | <0.000005 % | | | <LOD |
| | | 201-469-6 | 83-32-9 | | | | | | | | |
| 22 | fluorene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 201-695-5 | 86-73-7 | | | | | | | | |
| 23 | phenanthrene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | | <LOD |
| | | 201-581-5 | 85-01-8 | | | | | | | | |
| 24 | anthracene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 204-371-1 | 120-12-7 | | | | | | | | |
| 25 | fluoranthene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | | <LOD |
| | | 205-912-4 | 206-44-0 | | | | | | | | |
| 26 | pyrene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | | <LOD |
| | | 204-927-3 | 129-00-0 | | | | | | | | |
| 27 | benzo[a]anthracene | | | | <0.06 mg/kg | | <0.06 mg/kg | <0.000006 % | | | <LOD |
| | 601-033-00-9 | 200-280-6 | 56-55-3 | | | | | | | | |
| 28 | chrysene | | | | <0.02 mg/kg | | <0.02 mg/kg | <0.000002 % | | | <LOD |
| | 601-048-00-0 | 205-923-4 | 218-01-9 | | | | | | | | |
| 29 | benzo[b]fluoranthene | | | | <0.05 mg/kg | | <0.05 mg/kg | <0.000005 % | | | <LOD |
| | 601-034-00-4 | 205-911-9 | 205-99-2 | | | | | | | | |
| 30 | benzo[k]fluoranthene | | | | <0.02 mg/kg | | <0.02 mg/kg | <0.000002 % | | | <LOD |
| | 601-036-00-5 | 205-916-6 | 207-08-9 | | | | | | | | |
| 31 | benzo[a]pyrene; benzo[def]chrysene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | 601-032-00-3 | 200-028-5 | 50-32-8 | | | | | | | | |
| 32 | indeno[123-cd]pyrene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 205-893-2 | 193-39-5 | | | | | | | | |
| 33 | dibenz[a,h]anthracene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | 601-041-00-2 | 200-181-8 | 53-70-3 | | | | | | | | |
| 34 | benzo[ghi]perylene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 205-883-8 | 191-24-2 | | | | | | | | |
| Total: | | | | | | | | | 0.0509 % | | |

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 Determinand - 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

Classification of sample: 57629/TP#12-1

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

Sample details

| | |
|-------------------------|---|
| Sample Name: | LoW Code: |
| 57629/TP#12-1 | Chapter: |
| Moisture content: | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| 66.6% | Entry: |
| (dry weight correction) | 17 05 04 (Soil and stones other than those mentioned in 17 05 03) |

Hazard properties

None identified


Determinands

Moisture content: 66.6% Dry Weight Moisture Correction applied (MC)


| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|----|--|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|-------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | |
| 1 | pH | | | | 6.39 pH | | 6.39 | pH | 6.39 pH | | |
| 2 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } | | | | <0.5 mg/kg | 1.884 | <0.942 | mg/kg | <0.0000942 % | | <LOD |
| | 006-007-00-5 | | | | | | | | | | |
| 3 | phenol | | | | <0.01 mg/kg | | <0.01 | mg/kg | <0.000001 % | | <LOD |
| | 604-001-00-2 | 203-632-7 | 108-95-2 | | | | | | | | |
| 4 | antimony { antimony trioxide } | | | | 3 mg/kg | 1.197 | 2.156 | mg/kg | 0.000216 % | ✓ | |
| | 051-005-00-X | 215-175-0 | 1309-64-4 | | | | | | | | |
| 5 | arsenic { arsenic trioxide } | | | | 16 mg/kg | 1.32 | 12.68 | mg/kg | 0.00127 % | ✓ | |
| | 033-003-00-0 | 215-481-4 | 1327-53-3 | | | | | | | | |
| 6 | barium { barium sulfate } | | | | 136 mg/kg | 1.7 | 138.736 | mg/kg | 0.0139 % | ✓ | |
| | | 231-784-4 | 7727-43-7 | | | | | | | | |
| 7 | cadmium { cadmium sulfide } | | | 1 | 0.7 mg/kg | 1.285 | 0.54 | mg/kg | 0.000042 % | ✓ | |
| | 048-010-00-4 | 215-147-8 | 1306-23-6 | | | | | | | | |
| 8 | chromium in chromium(III) compounds { chromium(III) oxide } | | | | 35.4 mg/kg | 1.462 | 31.056 | mg/kg | 0.00311 % | ✓ | |
| | | 215-160-9 | 1308-38-9 | | | | | | | | |
| 9 | copper { dicopper oxide; copper (I) oxide } | | | | 28 mg/kg | 1.126 | 18.922 | mg/kg | 0.00189 % | ✓ | |
| | 029-002-00-X | 215-270-7 | 1317-39-1 | | | | | | | | |
| 10 | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } | | | 1 | 70 mg/kg | | 42.017 | mg/kg | 0.0042 % | ✓ | |
| | 082-001-00-6 | | | | | | | | | | |
| 11 | mercury { mercury dichloride } | | | | <0.1 mg/kg | 1.353 | <0.135 | mg/kg | <0.0000135 % | | <LOD |
| | 080-010-00-X | 231-299-8 | 7487-94-7 | | | | | | | | |
| 12 | nickel { nickel dihydroxide } | | | | 19.9 mg/kg | 1.579 | 18.867 | mg/kg | 0.00189 % | ✓ | |
| | 028-008-00-X | 235-008-5 [1] 234-348-1 [2] | 12054-48-7 [1] 11113-74-9 [2] | | | | | | | | |
| 13 | selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } | | | | 1 mg/kg | 2.554 | 1.533 | mg/kg | 0.000153 % | ✓ | |
| | 034-002-00-8 | | | | | | | | | | |

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|--------|---|--------------------------------|-----------------------------------|----------|-------------------|--------------|----------------|-------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | |
| 14 | vanadium { divanadium pentaoxide; vanadium pentoxide } | | | | 41 mg/kg | 1.785 | 43.933 | mg/kg | 0.00439 % | ✓ | |
| | 023-001-00-8 | 215-239-8 | 1314-62-1 | | | | | | | | |
| 15 | boron { boron tribromide/trichloride/trifluoride (combined) } | | | | 1.8 mg/kg | 13.43 | 14.51 | mg/kg | 0.00145 % | ✓ | |
| | | | 10294-33-4, 10294-34-5, 7637-07-2 | | | | | | | | |
| 16 | zinc { zinc sulphate } | | | | 128 mg/kg | 2.469 | 189.718 | mg/kg | 0.019 % | ✓ | |
| | 030-006-00-9 | 231-793-3 [1] 231-793-3 [2] | 7446-19-7 [1] 7733-02-0 [2] | | | | | | | | |
| 17 | chromium in chromium(VI) compounds { chromium(VI) oxide } | | | | <0.3 mg/kg | 1.923 | <0.577 | mg/kg | <0.0000577 % | | <LOD |
| | 024-001-00-0 | 215-607-8 | 1333-82-0 | | | | | | | | |
| 18 | TPH (C6 to C40) petroleum group | | | | <52 mg/kg | | <52 | mg/kg | <0.0052 % | | <LOD |
| | | | TPH | | | | | | | | |
| 19 | naphthalene | | | | <0.04 mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | 601-052-00-2 | 202-049-5 | 91-20-3 | | | | | | | | |
| 20 | acenaphthylene | | | | <0.03 mg/kg | | <0.03 | mg/kg | <0.000003 % | | <LOD |
| | | 205-917-1 | 208-96-8 | | | | | | | | |
| 21 | acenaphthene | | | | <0.05 mg/kg | | <0.05 | mg/kg | <0.000005 % | | <LOD |
| | | 201-469-6 | 83-32-9 | | | | | | | | |
| 22 | fluorene | | | | <0.04 mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | | 201-695-5 | 86-73-7 | | | | | | | | |
| 23 | phenanthrene | | | | 0.08 mg/kg | | 0.048 | mg/kg | 0.0000048 % | ✓ | |
| | | 201-581-5 | 85-01-8 | | | | | | | | |
| 24 | anthracene | | | | <0.04 mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | | 204-371-1 | 120-12-7 | | | | | | | | |
| 25 | fluoranthene | | | | 0.19 mg/kg | | 0.114 | mg/kg | 0.0000114 % | ✓ | |
| | | 205-912-4 | 206-44-0 | | | | | | | | |
| 26 | pyrene | | | | 0.17 mg/kg | | 0.102 | mg/kg | 0.0000102 % | ✓ | |
| | | 204-927-3 | 129-00-0 | | | | | | | | |
| 27 | benzo[a]anthracene | | | | <0.06 mg/kg | | <0.06 | mg/kg | <0.000006 % | | <LOD |
| | 601-033-00-9 | 200-280-6 | 56-55-3 | | | | | | | | |
| 28 | chrysene | | | | 0.1 mg/kg | | 0.06 | mg/kg | 0.000006 % | ✓ | |
| | 601-048-00-0 | 205-923-4 | 218-01-9 | | | | | | | | |
| 29 | benzo[b]fluoranthene | | | | 0.11 mg/kg | | 0.066 | mg/kg | 0.0000066 % | ✓ | |
| | 601-034-00-4 | 205-911-9 | 205-99-2 | | | | | | | | |
| 30 | benzo[k]fluoranthene | | | | 0.04 mg/kg | | 0.024 | mg/kg | 0.0000024 % | ✓ | |
| | 601-036-00-5 | 205-916-6 | 207-08-9 | | | | | | | | |
| 31 | benzo[a]pyrene; benzo[def]chrysene | | | | 0.07 mg/kg | | 0.042 | mg/kg | 0.0000042 % | ✓ | |
| | 601-032-00-3 | 200-028-5 | 50-32-8 | | | | | | | | |
| 32 | indeno[123-cd]pyrene | | | | <0.04 mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | | 205-893-2 | 193-39-5 | | | | | | | | |
| 33 | dibenz[a,h]anthracene | | | | <0.04 mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | 601-041-00-2 | 200-181-8 | 53-70-3 | | | | | | | | |
| 34 | benzo[ghi]perylene | | | | <0.04 mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | | 205-883-8 | 191-24-2 | | | | | | | | |
| Total: | | | | | | | | | 0.0569 % | | |

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 Determinand - 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

Classification of sample: 57629/TP#12-2

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

Sample details

| | |
|-------------------------|---|
| Sample Name: | LoW Code: |
| 57629/TP#12-2 | Chapter: |
| Moisture content: | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| 35.5% | Entry: |
| (dry weight correction) | 17 05 04 (Soil and stones other than those mentioned in 17 05 03) |

Hazard properties

None identified


Determinands

Moisture content: 35.5% Dry Weight Moisture Correction applied (MC)

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|----|--|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|-------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | |
| 1 | pH | | | | 6.48 pH | | 6.48 | pH | 6.48 pH | | |
| 2 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } | | | | <0.5 mg/kg | 1.884 | <0.942 | mg/kg | <0.0000942 % | | <LOD |
| | 006-007-00-5 | | | | | | | | | | |
| 3 | phenol | | | | <0.01 mg/kg | | <0.01 | mg/kg | <0.000001 % | | <LOD |
| | 604-001-00-2 | 203-632-7 | 108-95-2 | | | | | | | | |
| 4 | antimony { antimony trioxide } | | | | 4 mg/kg | 1.197 | 3.534 | mg/kg | 0.000353 % | ✓ | |
| | 051-005-00-X | 215-175-0 | 1309-64-4 | | | | | | | | |
| 5 | arsenic { arsenic trioxide } | | | | 8.2 mg/kg | 1.32 | 7.99 | mg/kg | 0.000799 % | ✓ | |
| | 033-003-00-0 | 215-481-4 | 1327-53-3 | | | | | | | | |
| 6 | barium { barium sulfate } | | | | 108 mg/kg | 1.7 | 135.46 | mg/kg | 0.0135 % | ✓ | |
| | | 231-784-4 | 7727-43-7 | | | | | | | | |
| 7 | cadmium { cadmium sulfide } | | | 1 | 0.3 mg/kg | 1.285 | 0.285 | mg/kg | 0.0000221 % | ✓ | |
| | 048-010-00-4 | 215-147-8 | 1306-23-6 | | | | | | | | |
| 8 | chromium in chromium(III) compounds { chromium(III) oxide } | | | | 32.9 mg/kg | 1.462 | 35.487 | mg/kg | 0.00355 % | ✓ | |
| | | 215-160-9 | 1308-38-9 | | | | | | | | |
| 9 | copper { dicopper oxide; copper (I) oxide } | | | | 23 mg/kg | 1.126 | 19.111 | mg/kg | 0.00191 % | ✓ | |
| | 029-002-00-X | 215-270-7 | 1317-39-1 | | | | | | | | |
| 10 | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } | | | 1 | 41 mg/kg | | 30.258 | mg/kg | 0.00303 % | ✓ | |
| | 082-001-00-6 | | | | | | | | | | |
| 11 | mercury { mercury dichloride } | | | | <0.1 mg/kg | 1.353 | <0.135 | mg/kg | <0.0000135 % | | <LOD |
| | 080-010-00-X | 231-299-8 | 7487-94-7 | | | | | | | | |
| 12 | nickel { nickel dihydroxide } | | | | 19.2 mg/kg | 1.579 | 22.381 | mg/kg | 0.00224 % | ✓ | |
| | 028-008-00-X | 235-008-5 [1] 234-348-1 [2] | 12054-48-7 [1] 11113-74-9 [2] | | | | | | | | |
| 13 | selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } | | | | 1 mg/kg | 2.554 | 1.885 | mg/kg | 0.000188 % | ✓ | |
| | 034-002-00-8 | | | | | | | | | | |

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|---|--------------------------------|---|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | |
| 14 | vanadium { divanadium pentaoxide; vanadium pentoxide } | | | | 43 mg/kg | 1.785 | 56.652 mg/kg | 0.00567 % | ✓ | |
| | 023-001-00-8 | 215-239-8 | 1314-62-1 | | | | | | | |
| 15 | boron { boron tribromide/trichloride/trifluoride (combined) } | | | | 1.4 mg/kg | 13.43 | 13.876 mg/kg | 0.00139 % | ✓ | |
| | | | 10294-33-4, 10294-34-5, 7637-07-2 | | | | | | | |
| 16 | zinc { zinc sulphate } | | | | 99 mg/kg | 2.469 | 180.414 mg/kg | 0.018 % | ✓ | |
| | 030-006-00-9 | 231-793-3 [1] 231-793-3 [2] | 7446-19-7 [1] 7733-02-0 [2] | | | | | | | |
| 17 | chromium in chromium(VI) compounds { chromium(VI) oxide } | | | | <0.3 mg/kg | 1.923 | <0.577 mg/kg | <0.0000577 % | | <LOD |
| | 024-001-00-0 | 215-607-8 | 1333-82-0 | | | | | | | |
| 18 | TPH (C6 to C40) petroleum group | | | | <52 mg/kg | | <52 mg/kg | <0.0052 % | | <LOD |
| | | | TPH | | | | | | | |
| 19 | naphthalene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | <LOD |
| | 601-052-00-2 | 202-049-5 | 91-20-3 | | | | | | | |
| 20 | acenaphthylene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | <LOD |
| | | 205-917-1 | 208-96-8 | | | | | | | |
| 21 | acenaphthene | | | | <0.05 mg/kg | | <0.05 mg/kg | <0.000005 % | | <LOD |
| | | 201-469-6 | 83-32-9 | | | | | | | |
| 22 | fluorene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | <LOD |
| | | 201-695-5 | 86-73-7 | | | | | | | |
| 23 | phenanthrene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | <LOD |
| | | 201-581-5 | 85-01-8 | | | | | | | |
| 24 | anthracene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | <LOD |
| | | 204-371-1 | 120-12-7 | | | | | | | |
| 25 | fluoranthene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | <LOD |
| | | 205-912-4 | 206-44-0 | | | | | | | |
| 26 | pyrene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | <LOD |
| | | 204-927-3 | 129-00-0 | | | | | | | |
| 27 | benzo[a]anthracene | | | | <0.06 mg/kg | | <0.06 mg/kg | <0.000006 % | | <LOD |
| | 601-033-00-9 | 200-280-6 | 56-55-3 | | | | | | | |
| 28 | chrysene | | | | <0.02 mg/kg | | <0.02 mg/kg | <0.000002 % | | <LOD |
| | 601-048-00-0 | 205-923-4 | 218-01-9 | | | | | | | |
| 29 | benzo[b]fluoranthene | | | | <0.05 mg/kg | | <0.05 mg/kg | <0.000005 % | | <LOD |
| | 601-034-00-4 | 205-911-9 | 205-99-2 | | | | | | | |
| 30 | benzo[k]fluoranthene | | | | <0.02 mg/kg | | <0.02 mg/kg | <0.000002 % | | <LOD |
| | 601-036-00-5 | 205-916-6 | 207-08-9 | | | | | | | |
| 31 | benzo[a]pyrene; benzo[def]chrysene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | <LOD |
| | 601-032-00-3 | 200-028-5 | 50-32-8 | | | | | | | |
| 32 | indeno[123-cd]pyrene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | <LOD |
| | | 205-893-2 | 193-39-5 | | | | | | | |
| 33 | dibenz[a,h]anthracene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | <LOD |
| | 601-041-00-2 | 200-181-8 | 53-70-3 | | | | | | | |
| 34 | benzo[ghi]perylene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | <LOD |
| | | 205-883-8 | 191-24-2 | | | | | | | |
| Total: | | | | | | | | 0.0562 % | | |

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 Determinand - 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

Classification of sample: 57629/TP#13-1

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

Sample details

| | |
|-------------------------|---|
| Sample Name: | LoW Code: |
| 57629/TP#13-1 | Chapter: |
| Moisture content: | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| 81.9% | Entry: |
| (dry weight correction) | 17 05 04 (Soil and stones other than those mentioned in 17 05 03) |

Hazard properties

None identified


Determinands

Moisture content: 81.9% Dry Weight Moisture Correction applied (MC)

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|----|--|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|-------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | |
| 1 | pH | | | | 6.77 pH | | 6.77 | pH | 6.77 pH | | |
| 2 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } | | | | 1 mg/kg | 1.884 | 1.036 | mg/kg | 0.000104 % | ✓ | |
| | 006-007-00-5 | | | | | | | | | | |
| 3 | phenol | | | | <0.01 mg/kg | | <0.01 | mg/kg | <0.000001 % | | <LOD |
| | 604-001-00-2 | 203-632-7 | 108-95-2 | | | | | | | | |
| 4 | antimony { antimony trioxide } | | | | 3 mg/kg | 1.197 | 1.974 | mg/kg | 0.000197 % | ✓ | |
| | 051-005-00-X | 215-175-0 | 1309-64-4 | | | | | | | | |
| 5 | arsenic { arsenic trioxide } | | | | 16.7 mg/kg | 1.32 | 12.122 | mg/kg | 0.00121 % | ✓ | |
| | 033-003-00-0 | 215-481-4 | 1327-53-3 | | | | | | | | |
| 6 | barium { barium sulfate } | | | | 142 mg/kg | 1.7 | 132.673 | mg/kg | 0.0133 % | ✓ | |
| | | 231-784-4 | 7727-43-7 | | | | | | | | |
| 7 | cadmium { cadmium sulfide } | | | 1 | 0.6 mg/kg | 1.285 | 0.424 | mg/kg | 0.000033 % | ✓ | |
| | 048-010-00-4 | 215-147-8 | 1306-23-6 | | | | | | | | |
| 8 | chromium in chromium(III) compounds { chromium(III) oxide } | | | | 41.3 mg/kg | 1.462 | 33.184 | mg/kg | 0.00332 % | ✓ | |
| | | 215-160-9 | 1308-38-9 | | | | | | | | |
| 9 | copper { dicopper oxide; copper (I) oxide } | | | | 22 mg/kg | 1.126 | 13.617 | mg/kg | 0.00136 % | ✓ | |
| | 029-002-00-X | 215-270-7 | 1317-39-1 | | | | | | | | |
| 10 | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } | | | 1 | 79 mg/kg | | 43.43 | mg/kg | 0.00434 % | ✓ | |
| | 082-001-00-6 | | | | | | | | | | |
| 11 | mercury { mercury dichloride } | | | | <0.1 mg/kg | 1.353 | <0.135 | mg/kg | <0.0000135 % | | <LOD |
| | 080-010-00-X | 231-299-8 | 7487-94-7 | | | | | | | | |
| 12 | nickel { nickel dihydroxide } | | | | 17.9 mg/kg | 1.579 | 15.543 | mg/kg | 0.00155 % | ✓ | |
| | 028-008-00-X | 235-008-5 [1] 234-348-1 [2] | 12054-48-7 [1] 11113-74-9 [2] | | | | | | | | |
| 13 | selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } | | | | 1 mg/kg | 2.554 | 1.404 | mg/kg | 0.00014 % | ✓ | |
| | 034-002-00-8 | | | | | | | | | | |

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|--------|---|--------------------------------|-----------------------------------|----------|-------------------|--------------|----------------|--------------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | |
| 14 | vanadium { divanadium pentaoxide; vanadium pentoxide } | | | | 36 mg/kg | 1.785 | 35.331 mg/kg | 0.00353 % | | ✓ | |
| | 023-001-00-8 | 215-239-8 | 1314-62-1 | | | | | | | | |
| 15 | boron { boron tribromide/trichloride/trifluoride (combined) } | | | | 2.6 mg/kg | 13.43 | 19.196 mg/kg | 0.00192 % | | ✓ | |
| | | | 10294-33-4, 10294-34-5, 7637-07-2 | | | | | | | | |
| 16 | zinc { zinc sulphate } | | | | 128 mg/kg | 2.469 | 173.76 mg/kg | 0.0174 % | | ✓ | |
| | 030-006-00-9 | 231-793-3 [1] 231-793-3 [2] | 7446-19-7 [1] 7733-02-0 [2] | | | | | | | | |
| 17 | chromium in chromium(VI) compounds { chromium(VI) oxide } | | | | <0.3 mg/kg | 1.923 | <0.577 mg/kg | <0.0000577 % | | | <LOD |
| | 024-001-00-0 | 215-607-8 | 1333-82-0 | | | | | | | | |
| 18 | TPH (C6 to C40) petroleum group | | | | 62 mg/kg | | 34.085 mg/kg | 0.00341 % | | ✓ | |
| | | | TPH | | | | | | | | |
| 19 | naphthalene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | 601-052-00-2 | 202-049-5 | 91-20-3 | | | | | | | | |
| 20 | acenaphthylene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | | <LOD |
| | | 205-917-1 | 208-96-8 | | | | | | | | |
| 21 | acenaphthene | | | | <0.05 mg/kg | | <0.05 mg/kg | <0.000005 % | | | <LOD |
| | | 201-469-6 | 83-32-9 | | | | | | | | |
| 22 | fluorene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 201-695-5 | 86-73-7 | | | | | | | | |
| 23 | phenanthrene | | | | 0.12 mg/kg | | 0.066 mg/kg | 0.0000066 % | | ✓ | |
| | | 201-581-5 | 85-01-8 | | | | | | | | |
| 24 | anthracene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 204-371-1 | 120-12-7 | | | | | | | | |
| 25 | fluoranthene | | | | 0.29 mg/kg | | 0.159 mg/kg | 0.0000159 % | | ✓ | |
| | | 205-912-4 | 206-44-0 | | | | | | | | |
| 26 | pyrene | | | | 0.25 mg/kg | | 0.137 mg/kg | 0.0000137 % | | ✓ | |
| | | 204-927-3 | 129-00-0 | | | | | | | | |
| 27 | benzo[a]anthracene | | | | 0.19 mg/kg | | 0.104 mg/kg | 0.0000104 % | | ✓ | |
| | 601-033-00-9 | 200-280-6 | 56-55-3 | | | | | | | | |
| 28 | chrysene | | | | 0.15 mg/kg | | 0.0825 mg/kg | 0.00000825 % | | ✓ | |
| | 601-048-00-0 | 205-923-4 | 218-01-9 | | | | | | | | |
| 29 | benzo[b]fluoranthene | | | | 0.18 mg/kg | | 0.099 mg/kg | 0.0000099 % | | ✓ | |
| | 601-034-00-4 | 205-911-9 | 205-99-2 | | | | | | | | |
| 30 | benzo[k]fluoranthene | | | | 0.07 mg/kg | | 0.0385 mg/kg | 0.00000385 % | | ✓ | |
| | 601-036-00-5 | 205-916-6 | 207-08-9 | | | | | | | | |
| 31 | benzo[a]pyrene; benzo[def]chrysene | | | | 0.1 mg/kg | | 0.055 mg/kg | 0.0000055 % | | ✓ | |
| | 601-032-00-3 | 200-028-5 | 50-32-8 | | | | | | | | |
| 32 | indeno[123-cd]pyrene | | | | 0.1 mg/kg | | 0.055 mg/kg | 0.0000055 % | | ✓ | |
| | | 205-893-2 | 193-39-5 | | | | | | | | |
| 33 | dibenz[a,h]anthracene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | 601-041-00-2 | 200-181-8 | 53-70-3 | | | | | | | | |
| 34 | benzo[ghi]perylene | | | | 0.08 mg/kg | | 0.044 mg/kg | 0.0000044 % | | ✓ | |
| | | 205-883-8 | 191-24-2 | | | | | | | | |
| Total: | | | | | | | | | 0.0519 % | | |

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 Determinand - 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 because There is no evidence of hydrocarbons being present as fuel based hydrocarbons and there is no free product, olfactory or visual evidence of hydrocarbons, the material is in a refractory matrix and the hydrocarbon level is very low with no volatile components.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00341%)

Classification of sample: 57629/TP#13-2

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

Sample details

| | |
|-------------------------|---|
| Sample Name: | LoW Code: |
| 57629/TP#13-2 | Chapter: |
| Moisture content: | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| 31.4% | Entry: |
| (dry weight correction) | 17 05 04 (Soil and stones other than those mentioned in 17 05 03) |

Hazard properties

None identified


Determinands

Moisture content: 31.4% Dry Weight Moisture Correction applied (MC)

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|----|--|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | |
| 1 | pH | | | | 6.94 pH | | 6.94 pH | 6.94 pH | | |
| 2 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } | | | | <0.5 mg/kg | 1.884 | <0.942 mg/kg | <0.0000942 % | | <LOD |
| | 006-007-00-5 | | | | | | | | | |
| 3 | phenol | | | | <0.01 mg/kg | | <0.01 mg/kg | <0.000001 % | | <LOD |
| | 604-001-00-2 | 203-632-7 | 108-95-2 | | | | | | | |
| 4 | antimony { antimony trioxide } | | | | 2 mg/kg | 1.197 | 1.822 mg/kg | 0.000182 % | ✓ | |
| | 051-005-00-X | 215-175-0 | 1309-64-4 | | | | | | | |
| 5 | arsenic { arsenic trioxide } | | | | 8.9 mg/kg | 1.32 | 8.943 mg/kg | 0.000894 % | ✓ | |
| | 033-003-00-0 | 215-481-4 | 1327-53-3 | | | | | | | |
| 6 | barium { barium sulfate } | | | | 69 mg/kg | 1.7 | 89.244 mg/kg | 0.00892 % | ✓ | |
| | | 231-784-4 | 7727-43-7 | | | | | | | |
| 7 | cadmium { cadmium sulfide } | | | 1 | <0.1 mg/kg | 1.285 | <0.129 mg/kg | <0.00001 % | | <LOD |
| | 048-010-00-4 | 215-147-8 | 1306-23-6 | | | | | | | |
| 8 | chromium in chromium(III) compounds { chromium(III) oxide } | | | | 31 mg/kg | 1.462 | 34.481 mg/kg | 0.00345 % | ✓ | |
| | | 215-160-9 | 1308-38-9 | | | | | | | |
| 9 | copper { dicopper oxide; copper (I) oxide } | | | | 11 mg/kg | 1.126 | 9.425 mg/kg | 0.000943 % | ✓ | |
| | 029-002-00-X | 215-270-7 | 1317-39-1 | | | | | | | |
| 10 | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } | | | 1 | 23 mg/kg | | 17.504 mg/kg | 0.00175 % | ✓ | |
| | 082-001-00-6 | | | | | | | | | |
| 11 | mercury { mercury dichloride } | | | | <0.1 mg/kg | 1.353 | <0.135 mg/kg | <0.0000135 % | | <LOD |
| | 080-010-00-X | 231-299-8 | 7487-94-7 | | | | | | | |
| 12 | nickel { nickel dihydroxide } | | | | 13.5 mg/kg | 1.579 | 16.228 mg/kg | 0.00162 % | ✓ | |
| | 028-008-00-X | 235-008-5 [1] 234-348-1 [2] | 12054-48-7 [1] 11113-74-9 [2] | | | | | | | |
| 13 | selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } | | | | 2 mg/kg | 2.554 | 3.887 mg/kg | 0.000389 % | ✓ | |
| | 034-002-00-8 | | | | | | | | | |

| # | Determinand | | | CLP Note | User entered data | | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|--------|---|--------------|-----------------------------------|-----------------------------|-------------------|-------|--------------|----------------|-------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | | |
| 14 | vanadium { divanadium pentaoxide; vanadium pentoxide } | 023-001-00-8 | 215-239-8 | 1314-62-1 | 33 | mg/kg | 1.785 | 44.833 | mg/kg | 0.00448 % | ✓ | |
| 15 | boron { boron tribromide/trichloride/trifluoride (combined) } | | 10294-33-4, 10294-34-5, 7637-07-2 | | 0.5 | mg/kg | 13.43 | 5.11 | mg/kg | 0.000511 % | ✓ | |
| 16 | zinc { zinc sulphate } | 030-006-00-9 | 231-793-3 [1] 231-793-3 [2] | 7446-19-7 [1] 7733-02-0 [2] | 85 | mg/kg | 2.469 | 159.734 | mg/kg | 0.016 % | ✓ | |
| 17 | chromium in chromium(VI) compounds { chromium(VI) oxide } | 024-001-00-0 | 215-607-8 | 1333-82-0 | <0.3 | mg/kg | 1.923 | <0.577 | mg/kg | <0.0000577 % | | <LOD |
| 18 | TPH (C6 to C40) petroleum group | | TPH | | <52 | mg/kg | | <52 | mg/kg | <0.0052 % | | <LOD |
| 19 | naphthalene | 601-052-00-2 | 202-049-5 | 91-20-3 | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| 20 | acenaphthylene | | 205-917-1 | 208-96-8 | <0.03 | mg/kg | | <0.03 | mg/kg | <0.000003 % | | <LOD |
| 21 | acenaphthene | | 201-469-6 | 83-32-9 | <0.05 | mg/kg | | <0.05 | mg/kg | <0.000005 % | | <LOD |
| 22 | fluorene | | 201-695-5 | 86-73-7 | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| 23 | phenanthrene | | 201-581-5 | 85-01-8 | <0.03 | mg/kg | | <0.03 | mg/kg | <0.000003 % | | <LOD |
| 24 | anthracene | | 204-371-1 | 120-12-7 | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| 25 | fluoranthene | | 205-912-4 | 206-44-0 | <0.03 | mg/kg | | <0.03 | mg/kg | <0.000003 % | | <LOD |
| 26 | pyrene | | 204-927-3 | 129-00-0 | <0.03 | mg/kg | | <0.03 | mg/kg | <0.000003 % | | <LOD |
| 27 | benzo[a]anthracene | 601-033-00-9 | 200-280-6 | 56-55-3 | <0.06 | mg/kg | | <0.06 | mg/kg | <0.000006 % | | <LOD |
| 28 | chrysene | 601-048-00-0 | 205-923-4 | 218-01-9 | <0.02 | mg/kg | | <0.02 | mg/kg | <0.000002 % | | <LOD |
| 29 | benzo[b]fluoranthene | 601-034-00-4 | 205-911-9 | 205-99-2 | <0.05 | mg/kg | | <0.05 | mg/kg | <0.000005 % | | <LOD |
| 30 | benzo[k]fluoranthene | 601-036-00-5 | 205-916-6 | 207-08-9 | <0.02 | mg/kg | | <0.02 | mg/kg | <0.000002 % | | <LOD |
| 31 | benzo[a]pyrene; benzo[def]chrysene | 601-032-00-3 | 200-028-5 | 50-32-8 | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| 32 | indeno[123-cd]pyrene | | 205-893-2 | 193-39-5 | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| 33 | dibenz[a,h]anthracene | 601-041-00-2 | 200-181-8 | 53-70-3 | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| 34 | benzo[ghi]perylene | | 205-883-8 | 191-24-2 | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| Total: | | | | | | | | | | 0.0446 % | | |

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 Determinand - 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

Classification of sample: 57629/TP#14-1

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

Sample details

| | |
|-------------------------|---|
| Sample Name: | LoW Code: |
| 57629/TP#14-1 | Chapter: |
| Moisture content: | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| 51.6% | Entry: |
| (dry weight correction) | 17 05 04 (Soil and stones other than those mentioned in 17 05 03) |

Hazard properties

None identified


Determinands

Moisture content: 51.6% Dry Weight Moisture Correction applied (MC)

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|----|--|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | |
| 1 | pH | | | | 6.36 pH | | 6.36 pH | 6.36 pH | | |
| 2 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } | | | | <0.5 mg/kg | 1.884 | <0.942 mg/kg | <0.0000942 % | | <LOD |
| | 006-007-00-5 | | | | | | | | | |
| 3 | phenol | | | | <0.01 mg/kg | | <0.01 mg/kg | <0.000001 % | | <LOD |
| | 604-001-00-2 | 203-632-7 | 108-95-2 | | | | | | | |
| 4 | antimony { antimony trioxide } | | | | 6 mg/kg | 1.197 | 4.738 mg/kg | 0.000474 % | ✓ | |
| | 051-005-00-X | 215-175-0 | 1309-64-4 | | | | | | | |
| 5 | arsenic { arsenic trioxide } | | | | 40.7 mg/kg | 1.32 | 35.447 mg/kg | 0.00354 % | ✓ | |
| | 033-003-00-0 | 215-481-4 | 1327-53-3 | | | | | | | |
| 6 | barium { barium sulfate } | | | | 314 mg/kg | 1.7 | 352.011 mg/kg | 0.0352 % | ✓ | |
| | | 231-784-4 | 7727-43-7 | | | | | | | |
| 7 | cadmium { cadmium sulfide } | | | 1 | 0.5 mg/kg | 1.285 | 0.424 mg/kg | 0.000033 % | ✓ | |
| | 048-010-00-4 | 215-147-8 | 1306-23-6 | | | | | | | |
| 8 | chromium in chromium(III) compounds { chromium(III) oxide } | | | | 38.6 mg/kg | 1.462 | 37.214 mg/kg | 0.00372 % | ✓ | |
| | | 215-160-9 | 1308-38-9 | | | | | | | |
| 9 | copper { dicopper oxide; copper (I) oxide } | | | | 88 mg/kg | 1.126 | 65.355 mg/kg | 0.00654 % | ✓ | |
| | 029-002-00-X | 215-270-7 | 1317-39-1 | | | | | | | |
| 10 | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } | | | 1 | 163 mg/kg | | 107.52 mg/kg | 0.0108 % | ✓ | |
| | 082-001-00-6 | | | | | | | | | |
| 11 | mercury { mercury dichloride } | | | | 0.2 mg/kg | 1.353 | 0.179 mg/kg | 0.0000179 % | ✓ | |
| | 080-010-00-X | 231-299-8 | 7487-94-7 | | | | | | | |
| 12 | nickel { nickel dihydroxide } | | | | 26.4 mg/kg | 1.579 | 27.506 mg/kg | 0.00275 % | ✓ | |
| | 028-008-00-X | 235-008-5 [1] 234-348-1 [2] | 12054-48-7 [1] 11113-74-9 [2] | | | | | | | |
| 13 | selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } | | | | 2 mg/kg | 2.554 | 3.369 mg/kg | 0.000337 % | ✓ | |
| | 034-002-00-8 | | | | | | | | | |

| # | Determinand | | | CLP Note | User entered data | | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|--------|--|-----------------------------|-----------------------------------|----------|-------------------|-------|--------------|----------------|-------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | | |
| 14 | vanadium { divanadium pentaoxide; vanadium pentoxide } | | | | 60 | mg/kg | 1.785 | 70.654 | mg/kg | 0.00707 % | ✓ | |
| | 023-001-00-8 | 215-239-8 | 1314-62-1 | | | | | | | | | |
| 15 | boron { boron tribromide/trichloride/trifluoride (combined) } | | | | 1.6 | mg/kg | 13.43 | 14.174 | mg/kg | 0.00142 % | ✓ | |
| | | | 10294-33-4, 10294-34-5, 7637-07-2 | | | | | | | | | |
| 16 | zinc { zinc sulphate } | | | | 205 | mg/kg | 2.469 | 333.909 | mg/kg | 0.0334 % | ✓ | |
| | 030-006-00-9 | 231-793-3 [1] 231-793-3 [2] | 7446-19-7 [1] 7733-02-0 [2] | | | | | | | | | |
| 17 | chromium in chromium(VI) compounds { chromium(VI) oxide } | | | | <0.3 | mg/kg | 1.923 | <0.577 | mg/kg | <0.0000577 % | | <LOD |
| | 024-001-00-0 | 215-607-8 | 1333-82-0 | | | | | | | | | |
| 18 | TPH (C6 to C40) petroleum group | | | | 53 | mg/kg | | 34.96 | mg/kg | 0.0035 % | ✓ | |
| | | | TPH | | | | | | | | | |
| 19 | naphthalene | | | | 0.15 | mg/kg | | 0.0989 | mg/kg | 0.00000989 % | ✓ | |
| | 601-052-00-2 | 202-049-5 | 91-20-3 | | | | | | | | | |
| 20 | acenaphthylene | | | | 0.21 | mg/kg | | 0.139 | mg/kg | 0.0000139 % | ✓ | |
| | | 205-917-1 | 208-96-8 | | | | | | | | | |
| 21 | acenaphthene | | | | <0.05 | mg/kg | | <0.05 | mg/kg | <0.000005 % | | <LOD |
| | | 201-469-6 | 83-32-9 | | | | | | | | | |
| 22 | fluorene | | | | 0.07 | mg/kg | | 0.0462 | mg/kg | 0.00000462 % | ✓ | |
| | | 201-695-5 | 86-73-7 | | | | | | | | | |
| 23 | phenanthrene | | | | 1.22 | mg/kg | | 0.805 | mg/kg | 0.0000805 % | ✓ | |
| | | 201-581-5 | 85-01-8 | | | | | | | | | |
| 24 | anthracene | | | | 0.28 | mg/kg | | 0.185 | mg/kg | 0.0000185 % | ✓ | |
| | | 204-371-1 | 120-12-7 | | | | | | | | | |
| 25 | fluoranthene | | | | 2.11 | mg/kg | | 1.392 | mg/kg | 0.000139 % | ✓ | |
| | | 205-912-4 | 206-44-0 | | | | | | | | | |
| 26 | pyrene | | | | 1.65 | mg/kg | | 1.088 | mg/kg | 0.000109 % | ✓ | |
| | | 204-927-3 | 129-00-0 | | | | | | | | | |
| 27 | benzo[a]anthracene | | | | 1.03 | mg/kg | | 0.679 | mg/kg | 0.0000679 % | ✓ | |
| | 601-033-00-9 | 200-280-6 | 56-55-3 | | | | | | | | | |
| 28 | chrysene | | | | 0.83 | mg/kg | | 0.547 | mg/kg | 0.0000547 % | ✓ | |
| | 601-048-00-0 | 205-923-4 | 218-01-9 | | | | | | | | | |
| 29 | benzo[b]fluoranthene | | | | 1.12 | mg/kg | | 0.739 | mg/kg | 0.0000739 % | ✓ | |
| | 601-034-00-4 | 205-911-9 | 205-99-2 | | | | | | | | | |
| 30 | benzo[k]fluoranthene | | | | 0.43 | mg/kg | | 0.284 | mg/kg | 0.0000284 % | ✓ | |
| | 601-036-00-5 | 205-916-6 | 207-08-9 | | | | | | | | | |
| 31 | benzo[a]pyrene; benzo[def]chrysene | | | | 0.84 | mg/kg | | 0.554 | mg/kg | 0.0000554 % | ✓ | |
| | 601-032-00-3 | 200-028-5 | 50-32-8 | | | | | | | | | |
| 32 | indeno[123-cd]pyrene | | | | 0.5 | mg/kg | | 0.33 | mg/kg | 0.000033 % | ✓ | |
| | | 205-893-2 | 193-39-5 | | | | | | | | | |
| 33 | dibenz[a,h]anthracene | | | | 0.12 | mg/kg | | 0.0792 | mg/kg | 0.00000792 % | ✓ | |
| | 601-041-00-2 | 200-181-8 | 53-70-3 | | | | | | | | | |
| 34 | benzo[ghi]perylene | | | | 0.47 | mg/kg | | 0.31 | mg/kg | 0.000031 % | ✓ | |
| | | 205-883-8 | 191-24-2 | | | | | | | | | |
| Total: | | | | | | | | | | 0.11 % | | |

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 Determinand - 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 because There is no evidence of hydrocarbons being present as fuel based hydrocarbons and there is no free product, olfactory or visual evidence of hydrocarbons, the material is in a refractory matrix and the hydrocarbon level is very low with no volatile components.


Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0035%)

Classification of sample: 57629/TP#14-2

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

Sample details

| | |
|-------------------------|---|
| Sample Name: | LoW Code: |
| 57629/TP#14-2 | Chapter: |
| Moisture content: | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| 18.5% | Entry: |
| (dry weight correction) | 17 05 04 (Soil and stones other than those mentioned in 17 05 03) |

Hazard properties

None identified


Determinands

Moisture content: 18.5% Dry Weight Moisture Correction applied (MC)

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|----|--|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|-------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | |
| 1 | pH | | | | 5.84 pH | | 5.84 | pH | 5.84 pH | | |
| 2 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } | | | | <0.5 mg/kg | 1.884 | <0.942 | mg/kg | <0.0000942 % | | <LOD |
| | 006-007-00-5 | | | | | | | | | | |
| 3 | phenol | | | | <0.01 mg/kg | | <0.01 | mg/kg | <0.000001 % | | <LOD |
| | 604-001-00-2 | 203-632-7 | 108-95-2 | | | | | | | | |
| 4 | antimony { antimony trioxide } | | | | 2 mg/kg | 1.197 | 2.02 | mg/kg | 0.000202 % | ✓ | |
| | 051-005-00-X | 215-175-0 | 1309-64-4 | | | | | | | | |
| 5 | arsenic { arsenic trioxide } | | | | 3.8 mg/kg | 1.32 | 4.234 | mg/kg | 0.000423 % | ✓ | |
| | 033-003-00-0 | 215-481-4 | 1327-53-3 | | | | | | | | |
| 6 | barium { barium sulfate } | | | | 109 mg/kg | 1.7 | 156.327 | mg/kg | 0.0156 % | ✓ | |
| | | 231-784-4 | 7727-43-7 | | | | | | | | |
| 7 | cadmium { cadmium sulfide } | | | 1 | 0.1 mg/kg | 1.285 | 0.108 | mg/kg | 0.00000844 % | ✓ | |
| | 048-010-00-4 | 215-147-8 | 1306-23-6 | | | | | | | | |
| 8 | chromium in chromium(III) compounds { chromium(III) oxide } | | | | 27.1 mg/kg | 1.462 | 33.425 | mg/kg | 0.00334 % | ✓ | |
| | | 215-160-9 | 1308-38-9 | | | | | | | | |
| 9 | copper { dicopper oxide; copper (I) oxide } | | | | 27 mg/kg | 1.126 | 25.653 | mg/kg | 0.00257 % | ✓ | |
| | 029-002-00-X | 215-270-7 | 1317-39-1 | | | | | | | | |
| 10 | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } | | | 1 | 32 mg/kg | | 27.004 | mg/kg | 0.0027 % | ✓ | |
| | 082-001-00-6 | | | | | | | | | | |
| 11 | mercury { mercury dichloride } | | | | <0.1 mg/kg | 1.353 | <0.135 | mg/kg | <0.0000135 % | | <LOD |
| | 080-010-00-X | 231-299-8 | 7487-94-7 | | | | | | | | |
| 12 | nickel { nickel dihydroxide } | | | | 38.1 mg/kg | 1.579 | 50.784 | mg/kg | 0.00508 % | ✓ | |
| | 028-008-00-X | 235-008-5 [1] 234-348-1 [2] | 12054-48-7 [1] 11113-74-9 [2] | | | | | | | | |
| 13 | selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } | | | | <1 mg/kg | 2.554 | <2.554 | mg/kg | <0.000255 % | | <LOD |
| | 034-002-00-8 | | | | | | | | | | |

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|--------|---|--------------------------------|-----------------------------------|----------|-------------------|--------------|----------------|--------------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | |
| 14 | vanadium { divanadium pentaoxide; vanadium pentoxide } | | | | 23 mg/kg | 1.785 | 34.649 mg/kg | 0.00346 % | | ✓ | |
| | 023-001-00-8 | 215-239-8 | 1314-62-1 | | | | | | | | |
| 15 | boron { boron tribromide/trichloride/trifluoride (combined) } | | | | 0.3 mg/kg | 13.43 | 3.4 mg/kg | 0.00034 % | | ✓ | |
| | | | 10294-33-4, 10294-34-5, 7637-07-2 | | | | | | | | |
| 16 | zinc { zinc sulphate } | | | | 136 mg/kg | 2.469 | 283.396 mg/kg | 0.0283 % | | ✓ | |
| | 030-006-00-9 | 231-793-3 [1] 231-793-3 [2] | 7446-19-7 [1] 7733-02-0 [2] | | | | | | | | |
| 17 | chromium in chromium(VI) compounds { chromium(VI) oxide } | | | | <0.3 mg/kg | 1.923 | <0.577 mg/kg | <0.0000577 % | | | <LOD |
| | 024-001-00-0 | 215-607-8 | 1333-82-0 | | | | | | | | |
| 18 | TPH (C6 to C40) petroleum group | | | | <52 mg/kg | | <52 mg/kg | <0.0052 % | | | <LOD |
| | | | TPH | | | | | | | | |
| 19 | naphthalene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | 601-052-00-2 | 202-049-5 | 91-20-3 | | | | | | | | |
| 20 | acenaphthylene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | | <LOD |
| | | 205-917-1 | 208-96-8 | | | | | | | | |
| 21 | acenaphthene | | | | <0.05 mg/kg | | <0.05 mg/kg | <0.000005 % | | | <LOD |
| | | 201-469-6 | 83-32-9 | | | | | | | | |
| 22 | fluorene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 201-695-5 | 86-73-7 | | | | | | | | |
| 23 | phenanthrene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | | <LOD |
| | | 201-581-5 | 85-01-8 | | | | | | | | |
| 24 | anthracene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 204-371-1 | 120-12-7 | | | | | | | | |
| 25 | fluoranthene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | | <LOD |
| | | 205-912-4 | 206-44-0 | | | | | | | | |
| 26 | pyrene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | | <LOD |
| | | 204-927-3 | 129-00-0 | | | | | | | | |
| 27 | benzo[a]anthracene | | | | <0.06 mg/kg | | <0.06 mg/kg | <0.000006 % | | | <LOD |
| | 601-033-00-9 | 200-280-6 | 56-55-3 | | | | | | | | |
| 28 | chrysene | | | | <0.02 mg/kg | | <0.02 mg/kg | <0.000002 % | | | <LOD |
| | 601-048-00-0 | 205-923-4 | 218-01-9 | | | | | | | | |
| 29 | benzo[b]fluoranthene | | | | <0.05 mg/kg | | <0.05 mg/kg | <0.000005 % | | | <LOD |
| | 601-034-00-4 | 205-911-9 | 205-99-2 | | | | | | | | |
| 30 | benzo[k]fluoranthene | | | | <0.02 mg/kg | | <0.02 mg/kg | <0.000002 % | | | <LOD |
| | 601-036-00-5 | 205-916-6 | 207-08-9 | | | | | | | | |
| 31 | benzo[a]pyrene; benzo[def]chrysene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | 601-032-00-3 | 200-028-5 | 50-32-8 | | | | | | | | |
| 32 | indeno[123-cd]pyrene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 205-893-2 | 193-39-5 | | | | | | | | |
| 33 | dibenz[a,h]anthracene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | 601-041-00-2 | 200-181-8 | 53-70-3 | | | | | | | | |
| 34 | benzo[ghi]perylene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 205-883-8 | 191-24-2 | | | | | | | | |
| Total: | | | | | | | | | 0.0678 % | | |

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 Determinand - 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

Classification of sample: 57629/TP#15-1

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

Sample details

| | |
|-------------------------|---|
| Sample Name: | LoW Code: |
| 57629/TP#15-1 | Chapter: |
| Moisture content: | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| 62.7% | Entry: |
| (dry weight correction) | 17 05 04 (Soil and stones other than those mentioned in 17 05 03) |

Hazard properties

None identified


Determinands

Moisture content: 62.7% Dry Weight Moisture Correction applied (MC)


| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|----|--|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|-------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | |
| 1 | pH | | | | 6.18 pH | | 6.18 | pH | 6.18 pH | | |
| 2 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } | | | | 0.8 mg/kg | 1.884 | 0.926 | mg/kg | 0.0000926 % | ✓ | |
| | 006-007-00-5 | | | | | | | | | | |
| 3 | phenol | | | | <0.01 mg/kg | | <0.01 | mg/kg | <0.000001 % | | <LOD |
| | 604-001-00-2 | 203-632-7 | 108-95-2 | | | | | | | | |
| 4 | antimony { antimony trioxide } | | | | 3 mg/kg | 1.197 | 2.207 | mg/kg | 0.000221 % | ✓ | |
| | 051-005-00-X | 215-175-0 | 1309-64-4 | | | | | | | | |
| 5 | arsenic { arsenic trioxide } | | | | 16.8 mg/kg | 1.32 | 13.633 | mg/kg | 0.00136 % | ✓ | |
| | 033-003-00-0 | 215-481-4 | 1327-53-3 | | | | | | | | |
| 6 | barium { barium sulfate } | | | | 246 mg/kg | 1.7 | 256.964 | mg/kg | 0.0257 % | ✓ | |
| | | 231-784-4 | 7727-43-7 | | | | | | | | |
| 7 | cadmium { cadmium sulfide } | | | 1 | 0.7 mg/kg | 1.285 | 0.553 | mg/kg | 0.000043 % | ✓ | |
| | 048-010-00-4 | 215-147-8 | 1306-23-6 | | | | | | | | |
| 8 | chromium in chromium(III) compounds { chromium(III) oxide } | | | | 39.6 mg/kg | 1.462 | 35.573 | mg/kg | 0.00356 % | ✓ | |
| | | 215-160-9 | 1308-38-9 | | | | | | | | |
| 9 | copper { dicopper oxide; copper (I) oxide } | | | | 27 mg/kg | 1.126 | 18.684 | mg/kg | 0.00187 % | ✓ | |
| | 029-002-00-X | 215-270-7 | 1317-39-1 | | | | | | | | |
| 10 | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } | | | 1 | 90 mg/kg | | 55.317 | mg/kg | 0.00553 % | ✓ | |
| | 082-001-00-6 | | | | | | | | | | |
| 11 | mercury { mercury dichloride } | | | | <0.1 mg/kg | 1.353 | <0.135 | mg/kg | <0.0000135 % | | <LOD |
| | 080-010-00-X | 231-299-8 | 7487-94-7 | | | | | | | | |
| 12 | nickel { nickel dihydroxide } | | | | 4.6 mg/kg | 1.579 | 4.466 | mg/kg | 0.000447 % | ✓ | |
| | 028-008-00-X | 235-008-5 [1] 234-348-1 [2] | 12054-48-7 [1] 11113-74-9 [2] | | | | | | | | |
| 13 | selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } | | | | 1 mg/kg | 2.554 | 1.57 | mg/kg | 0.000157 % | ✓ | |
| | 034-002-00-8 | | | | | | | | | | |

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|---|--------------------------------|---|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | |
| 14 | vanadium { divanadium pentaoxide; vanadium pentoxide } | | | | 41 mg/kg | 1.785 | 44.986 mg/kg | 0.0045 % | ✓ | |
| | 023-001-00-8 | 215-239-8 | 1314-62-1 | | | | | | | |
| 15 | boron { boron tribromide/trichloride/trifluoride (combined) } | | | | 2.6 mg/kg | 13.43 | 21.462 mg/kg | 0.00215 % | ✓ | |
| | | | 10294-33-4, 10294-34-5, 7637-07-2 | | | | | | | |
| 16 | zinc { zinc sulphate } | | | | 157 mg/kg | 2.469 | 238.279 mg/kg | 0.0238 % | ✓ | |
| | 030-006-00-9 | 231-793-3 [1] 231-793-3 [2] | 7446-19-7 [1] 7733-02-0 [2] | | | | | | | |
| 17 | chromium in chromium(VI) compounds { chromium(VI) oxide } | | | | <0.3 mg/kg | 1.923 | <0.577 mg/kg | <0.0000577 % | | <LOD |
| | 024-001-00-0 | 215-607-8 | 1333-82-0 | | | | | | | |
| 18 | TPH (C6 to C40) petroleum group | | | | <52 mg/kg | | <52 mg/kg | <0.0052 % | | <LOD |
| | | | TPH | | | | | | | |
| 19 | naphthalene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | <LOD |
| | 601-052-00-2 | 202-049-5 | 91-20-3 | | | | | | | |
| 20 | acenaphthylene | | | | 0.15 mg/kg | | 0.0922 mg/kg | 0.00000922 % | ✓ | |
| | | 205-917-1 | 208-96-8 | | | | | | | |
| 21 | acenaphthene | | | | 0.18 mg/kg | | 0.111 mg/kg | 0.0000111 % | ✓ | |
| | | 201-469-6 | 83-32-9 | | | | | | | |
| 22 | fluorene | | | | 0.16 mg/kg | | 0.0983 mg/kg | 0.00000983 % | ✓ | |
| | | 201-695-5 | 86-73-7 | | | | | | | |
| 23 | phenanthrene | | | | 2.28 mg/kg | | 1.401 mg/kg | 0.00014 % | ✓ | |
| | | 201-581-5 | 85-01-8 | | | | | | | |
| 24 | anthracene | | | | 0.57 mg/kg | | 0.35 mg/kg | 0.000035 % | ✓ | |
| | | 204-371-1 | 120-12-7 | | | | | | | |
| 25 | fluoranthene | | | | 2.86 mg/kg | | 1.758 mg/kg | 0.000176 % | ✓ | |
| | | 205-912-4 | 206-44-0 | | | | | | | |
| 26 | pyrene | | | | 2.28 mg/kg | | 1.401 mg/kg | 0.00014 % | ✓ | |
| | | 204-927-3 | 129-00-0 | | | | | | | |
| 27 | benzo[a]anthracene | | | | 1.18 mg/kg | | 0.725 mg/kg | 0.0000725 % | ✓ | |
| | 601-033-00-9 | 200-280-6 | 56-55-3 | | | | | | | |
| 28 | chrysene | | | | 1 mg/kg | | 0.615 mg/kg | 0.0000615 % | ✓ | |
| | 601-048-00-0 | 205-923-4 | 218-01-9 | | | | | | | |
| 29 | benzo[b]fluoranthene | | | | 1.13 mg/kg | | 0.695 mg/kg | 0.0000695 % | ✓ | |
| | 601-034-00-4 | 205-911-9 | 205-99-2 | | | | | | | |
| 30 | benzo[k]fluoranthene | | | | 0.44 mg/kg | | 0.27 mg/kg | 0.000027 % | ✓ | |
| | 601-036-00-5 | 205-916-6 | 207-08-9 | | | | | | | |
| 31 | benzo[a]pyrene; benzo[def]chrysene | | | | 0.66 mg/kg | | 0.406 mg/kg | 0.0000406 % | ✓ | |
| | 601-032-00-3 | 200-028-5 | 50-32-8 | | | | | | | |
| 32 | indeno[123-cd]pyrene | | | | 0.55 mg/kg | | 0.338 mg/kg | 0.0000338 % | ✓ | |
| | | 205-893-2 | 193-39-5 | | | | | | | |
| 33 | dibenz[a,h]anthracene | | | | 0.1 mg/kg | | 0.0615 mg/kg | 0.00000615 % | ✓ | |
| | 601-041-00-2 | 200-181-8 | 53-70-3 | | | | | | | |
| 34 | benzo[ghi]perylene | | | | 0.47 mg/kg | | 0.289 mg/kg | 0.0000289 % | ✓ | |
| | | 205-883-8 | 191-24-2 | | | | | | | |
| Total: | | | | | | | | 0.0756 % | | |

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 Determinand - 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

Classification of sample: 57629/TP#15-2

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

Sample details

| | |
|-------------------------|---|
| Sample Name: | LoW Code: |
| 57629/TP#15-2 | Chapter: |
| Moisture content: | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| 25% | Entry: |
| (dry weight correction) | 17 05 04 (Soil and stones other than those mentioned in 17 05 03) |

Hazard properties

None identified


Determinands

Moisture content: 25% Dry Weight Moisture Correction applied (MC)

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|----|--|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|-------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | |
| 1 | pH | | | | 7.43 pH | | 7.43 | pH | 7.43 pH | | |
| 2 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } | | | | <0.5 mg/kg | 1.884 | <0.942 | mg/kg | <0.0000942 % | | <LOD |
| | 006-007-00-5 | | | | | | | | | | |
| 3 | phenol | | | | <0.01 mg/kg | | <0.01 | mg/kg | <0.000001 % | | <LOD |
| | 604-001-00-2 | 203-632-7 | 108-95-2 | | | | | | | | |
| 4 | antimony { antimony trioxide } | | | | 2 mg/kg | 1.197 | 1.915 | mg/kg | 0.000192 % | ✓ | |
| | 051-005-00-X | 215-175-0 | 1309-64-4 | | | | | | | | |
| 5 | arsenic { arsenic trioxide } | | | | 8.2 mg/kg | 1.32 | 8.661 | mg/kg | 0.000866 % | ✓ | |
| | 033-003-00-0 | 215-481-4 | 1327-53-3 | | | | | | | | |
| 6 | barium { barium sulfate } | | | | 113 mg/kg | 1.7 | 153.636 | mg/kg | 0.0154 % | ✓ | |
| | | 231-784-4 | 7727-43-7 | | | | | | | | |
| 7 | cadmium { cadmium sulfide } | | | 1 | 0.1 mg/kg | 1.285 | 0.103 | mg/kg | 0.000008 % | ✓ | |
| | 048-010-00-4 | 215-147-8 | 1306-23-6 | | | | | | | | |
| 8 | chromium in chromium(III) compounds { chromium(III) oxide } | | | | 34.6 mg/kg | 1.462 | 40.456 | mg/kg | 0.00405 % | ✓ | |
| | | 215-160-9 | 1308-38-9 | | | | | | | | |
| 9 | copper { dicopper oxide; copper (I) oxide } | | | | 23 mg/kg | 1.126 | 20.716 | mg/kg | 0.00207 % | ✓ | |
| | 029-002-00-X | 215-270-7 | 1317-39-1 | | | | | | | | |
| 10 | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } | | | 1 | 17 mg/kg | | 13.6 | mg/kg | 0.00136 % | ✓ | |
| | 082-001-00-6 | | | | | | | | | | |
| 11 | mercury { mercury dichloride } | | | | <0.1 mg/kg | 1.353 | <0.135 | mg/kg | <0.0000135 % | | <LOD |
| | 080-010-00-X | 231-299-8 | 7487-94-7 | | | | | | | | |
| 12 | nickel { nickel dihydroxide } | | | | 24.9 mg/kg | 1.579 | 31.464 | mg/kg | 0.00315 % | ✓ | |
| | 028-008-00-X | 235-008-5 [1] 234-348-1 [2] | 12054-48-7 [1] 11113-74-9 [2] | | | | | | | | |
| 13 | selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } | | | | <1 mg/kg | 2.554 | <2.554 | mg/kg | <0.000255 % | | <LOD |
| | 034-002-00-8 | | | | | | | | | | |

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|--------|---|-----------------------------|-----------------------------------|----------|-------------------|--------------|----------------|--------------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | |
| 14 | vanadium { divanadium pentaoxide; vanadium pentoxide } | | | | 31 mg/kg | 1.785 | 44.273 mg/kg | 0.00443 % | | ✓ | |
| | 023-001-00-8 | 215-239-8 | 1314-62-1 | | | | | | | | |
| 15 | boron { boron tribromide/trichloride/trifluoride (combined) } | | | | 1.2 mg/kg | 13.43 | 12.893 mg/kg | 0.00129 % | | ✓ | |
| | | | 10294-33-4, 10294-34-5, 7637-07-2 | | | | | | | | |
| 16 | zinc { zinc sulphate } | | | | 78 mg/kg | 2.469 | 154.084 mg/kg | 0.0154 % | | ✓ | |
| | 030-006-00-9 | 231-793-3 [1] 231-793-3 [2] | 7446-19-7 [1] 7733-02-0 [2] | | | | | | | | |
| 17 | chromium in chromium(VI) compounds { chromium(VI) oxide } | | | | <0.3 mg/kg | 1.923 | <0.577 mg/kg | <0.0000577 % | | | <LOD |
| | 024-001-00-0 | 215-607-8 | 1333-82-0 | | | | | | | | |
| 18 | TPH (C6 to C40) petroleum group | | | | <52 mg/kg | | <52 mg/kg | <0.0052 % | | | <LOD |
| | | | TPH | | | | | | | | |
| 19 | naphthalene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | 601-052-00-2 | 202-049-5 | 91-20-3 | | | | | | | | |
| 20 | acenaphthylene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | | <LOD |
| | | 205-917-1 | 208-96-8 | | | | | | | | |
| 21 | acenaphthene | | | | <0.05 mg/kg | | <0.05 mg/kg | <0.000005 % | | | <LOD |
| | | 201-469-6 | 83-32-9 | | | | | | | | |
| 22 | fluorene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 201-695-5 | 86-73-7 | | | | | | | | |
| 23 | phenanthrene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | | <LOD |
| | | 201-581-5 | 85-01-8 | | | | | | | | |
| 24 | anthracene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 204-371-1 | 120-12-7 | | | | | | | | |
| 25 | fluoranthene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | | <LOD |
| | | 205-912-4 | 206-44-0 | | | | | | | | |
| 26 | pyrene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | | <LOD |
| | | 204-927-3 | 129-00-0 | | | | | | | | |
| 27 | benzo[a]anthracene | | | | <0.06 mg/kg | | <0.06 mg/kg | <0.000006 % | | | <LOD |
| | 601-033-00-9 | 200-280-6 | 56-55-3 | | | | | | | | |
| 28 | chrysene | | | | <0.02 mg/kg | | <0.02 mg/kg | <0.000002 % | | | <LOD |
| | 601-048-00-0 | 205-923-4 | 218-01-9 | | | | | | | | |
| 29 | benzo[b]fluoranthene | | | | <0.05 mg/kg | | <0.05 mg/kg | <0.000005 % | | | <LOD |
| | 601-034-00-4 | 205-911-9 | 205-99-2 | | | | | | | | |
| 30 | benzo[k]fluoranthene | | | | <0.02 mg/kg | | <0.02 mg/kg | <0.000002 % | | | <LOD |
| | 601-036-00-5 | 205-916-6 | 207-08-9 | | | | | | | | |
| 31 | benzo[a]pyrene; benzo[def]chrysene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | 601-032-00-3 | 200-028-5 | 50-32-8 | | | | | | | | |
| 32 | indeno[123-cd]pyrene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 205-893-2 | 193-39-5 | | | | | | | | |
| 33 | dibenz[a,h]anthracene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | 601-041-00-2 | 200-181-8 | 53-70-3 | | | | | | | | |
| 34 | benzo[ghi]perylene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 205-883-8 | 191-24-2 | | | | | | | | |
| Total: | | | | | | | | | 0.0539 % | | |

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 Determinand - 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

Classification of sample: 57629/TP#16-1

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

Sample details

| | |
|-------------------------|---|
| Sample Name: | LoW Code: |
| 57629/TP#16-1 | Chapter: |
| Moisture content: | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| 41.8% | Entry: |
| (dry weight correction) | 17 05 04 (Soil and stones other than those mentioned in 17 05 03) |

Hazard properties

None identified


Determinands

Moisture content: 41.8% Dry Weight Moisture Correction applied (MC)

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|----|--|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|-------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | |
| 1 | pH | | | | 6.75 pH | | 6.75 | pH | 6.75 pH | | |
| 2 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } | | | | <0.5 mg/kg | 1.884 | <0.942 | mg/kg | <0.0000942 % | | <LOD |
| | 006-007-00-5 | | | | | | | | | | |
| 3 | phenol | | | | <0.01 mg/kg | | <0.01 | mg/kg | <0.000001 % | | <LOD |
| | 604-001-00-2 | 203-632-7 | 108-95-2 | | | | | | | | |
| 4 | antimony { antimony trioxide } | | | | 5 mg/kg | 1.197 | 4.221 | mg/kg | 0.000422 % | ✓ | |
| | 051-005-00-X | 215-175-0 | 1309-64-4 | | | | | | | | |
| 5 | arsenic { arsenic trioxide } | | | | 35.2 mg/kg | 1.32 | 32.775 | mg/kg | 0.00328 % | ✓ | |
| | 033-003-00-0 | 215-481-4 | 1327-53-3 | | | | | | | | |
| 6 | barium { barium sulfate } | | | | 286 mg/kg | 1.7 | 342.78 | mg/kg | 0.0343 % | ✓ | |
| | | 231-784-4 | 7727-43-7 | | | | | | | | |
| 7 | cadmium { cadmium sulfide } | | | 1 | 1 mg/kg | 1.285 | 0.906 | mg/kg | 0.0000705 % | ✓ | |
| | 048-010-00-4 | 215-147-8 | 1306-23-6 | | | | | | | | |
| 8 | chromium in chromium(III) compounds { chromium(III) oxide } | | | | 39.1 mg/kg | 1.462 | 40.301 | mg/kg | 0.00403 % | ✓ | |
| | | 215-160-9 | 1308-38-9 | | | | | | | | |
| 9 | copper { dicopper oxide; copper (I) oxide } | | | | 78 mg/kg | 1.126 | 61.932 | mg/kg | 0.00619 % | ✓ | |
| | 029-002-00-X | 215-270-7 | 1317-39-1 | | | | | | | | |
| 10 | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } | | | 1 | 142 mg/kg | | 100.141 | mg/kg | 0.01 % | ✓ | |
| | 082-001-00-6 | | | | | | | | | | |
| 11 | mercury { mercury dichloride } | | | | 0.3 mg/kg | 1.353 | 0.286 | mg/kg | 0.0000286 % | ✓ | |
| | 080-010-00-X | 231-299-8 | 7487-94-7 | | | | | | | | |
| 12 | nickel { nickel dihydroxide } | | | | 34.9 mg/kg | 1.579 | 38.875 | mg/kg | 0.00389 % | ✓ | |
| | 028-008-00-X | 235-008-5 [1] 234-348-1 [2] | 12054-48-7 [1] 11113-74-9 [2] | | | | | | | | |
| 13 | selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } | | | | 3 mg/kg | 2.554 | 5.403 | mg/kg | 0.00054 % | ✓ | |
| | 034-002-00-8 | | | | | | | | | | |

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|---|--------------------------------|-----------------------------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | |
| 14 | vanadium { divanadium pentaoxide; vanadium pentoxide } | | | | 53 mg/kg | 1.785 | 66.724 mg/kg | 0.00667 % | ✓ | |
| | 023-001-00-8 | 215-239-8 | 1314-62-1 | | | | | | | |
| 15 | boron { boron tribromide/trichloride/trifluoride (combined) } | | | | 2.5 mg/kg | 13.43 | 23.678 mg/kg | 0.00237 % | ✓ | |
| | | | 10294-33-4, 10294-34-5, 7637-07-2 | | | | | | | |
| 16 | zinc { zinc sulphate } | | | | 184 mg/kg | 2.469 | 320.416 mg/kg | 0.032 % | ✓ | |
| | 030-006-00-9 | 231-793-3 [1] 231-793-3 [2] | 7446-19-7 [1] 7733-02-0 [2] | | | | | | | |
| 17 | chromium in chromium(VI) compounds { chromium(VI) oxide } | | | | <0.3 mg/kg | 1.923 | <0.577 mg/kg | <0.0000577 % | | <LOD |
| | 024-001-00-0 | 215-607-8 | 1333-82-0 | | | | | | | |
| 18 | TPH (C6 to C40) petroleum group | | | | <52 mg/kg | | <52 mg/kg | <0.0052 % | | <LOD |
| | | | TPH | | | | | | | |
| 19 | naphthalene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | <LOD |
| | 601-052-00-2 | 202-049-5 | 91-20-3 | | | | | | | |
| 20 | acenaphthylene | | | | 0.08 mg/kg | | 0.0564 mg/kg | 0.00000564 % | ✓ | |
| | | 205-917-1 | 208-96-8 | | | | | | | |
| 21 | acenaphthene | | | | <0.05 mg/kg | | <0.05 mg/kg | <0.000005 % | | <LOD |
| | | 201-469-6 | 83-32-9 | | | | | | | |
| 22 | fluorene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | <LOD |
| | | 201-695-5 | 86-73-7 | | | | | | | |
| 23 | phenanthrene | | | | 0.37 mg/kg | | 0.261 mg/kg | 0.0000261 % | ✓ | |
| | | 201-581-5 | 85-01-8 | | | | | | | |
| 24 | anthracene | | | | 0.09 mg/kg | | 0.0635 mg/kg | 0.00000635 % | ✓ | |
| | | 204-371-1 | 120-12-7 | | | | | | | |
| 25 | fluoranthene | | | | 0.87 mg/kg | | 0.614 mg/kg | 0.0000614 % | ✓ | |
| | | 205-912-4 | 206-44-0 | | | | | | | |
| 26 | pyrene | | | | 0.71 mg/kg | | 0.501 mg/kg | 0.0000501 % | ✓ | |
| | | 204-927-3 | 129-00-0 | | | | | | | |
| 27 | benzo[a]anthracene | | | | 0.32 mg/kg | | 0.226 mg/kg | 0.0000226 % | ✓ | |
| | 601-033-00-9 | 200-280-6 | 56-55-3 | | | | | | | |
| 28 | chrysene | | | | 0.4 mg/kg | | 0.282 mg/kg | 0.0000282 % | ✓ | |
| | 601-048-00-0 | 205-923-4 | 218-01-9 | | | | | | | |
| 29 | benzo[b]fluoranthene | | | | 0.5 mg/kg | | 0.353 mg/kg | 0.0000353 % | ✓ | |
| | 601-034-00-4 | 205-911-9 | 205-99-2 | | | | | | | |
| 30 | benzo[k]fluoranthene | | | | 0.19 mg/kg | | 0.134 mg/kg | 0.0000134 % | ✓ | |
| | 601-036-00-5 | 205-916-6 | 207-08-9 | | | | | | | |
| 31 | benzo[a]pyrene; benzo[def]chrysene | | | | 0.38 mg/kg | | 0.268 mg/kg | 0.0000268 % | ✓ | |
| | 601-032-00-3 | 200-028-5 | 50-32-8 | | | | | | | |
| 32 | indeno[123-cd]pyrene | | | | 0.21 mg/kg | | 0.148 mg/kg | 0.0000148 % | ✓ | |
| | | 205-893-2 | 193-39-5 | | | | | | | |
| 33 | dibenz[a,h]anthracene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | <LOD |
| | 601-041-00-2 | 200-181-8 | 53-70-3 | | | | | | | |
| 34 | benzo[ghi]perylene | | | | 0.21 mg/kg | | 0.148 mg/kg | 0.0000148 % | ✓ | |
| | | 205-883-8 | 191-24-2 | | | | | | | |
| Total: | | | | | | | | 0.109 % | | |

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 Determinand - 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

Classification of sample: 57629/TP#16-2

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

Sample details

| | |
|-------------------------|---|
| Sample Name: | LoW Code: |
| 57629/TP#16-2 | Chapter: |
| Moisture content: | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| 30% | Entry: |
| (dry weight correction) | 17 05 04 (Soil and stones other than those mentioned in 17 05 03) |

Hazard properties

None identified


Determinands

Moisture content: 30% Dry Weight Moisture Correction applied (MC)


| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|----|--|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|-------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | |
| 1 | pH | | | | 7.19 pH | | 7.19 | pH | 7.19 pH | | |
| 2 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } | | | | <0.5 mg/kg | 1.884 | <0.942 | mg/kg | <0.0000942 % | | <LOD |
| | 006-007-00-5 | | | | | | | | | | |
| 3 | phenol | | | | <0.01 mg/kg | | <0.01 | mg/kg | <0.000001 % | | <LOD |
| | 604-001-00-2 | 203-632-7 | 108-95-2 | | | | | | | | |
| 4 | antimony { antimony trioxide } | | | | 3 mg/kg | 1.197 | 2.763 | mg/kg | 0.000276 % | ✓ | |
| | 051-005-00-X | 215-175-0 | 1309-64-4 | | | | | | | | |
| 5 | arsenic { arsenic trioxide } | | | | 8.9 mg/kg | 1.32 | 9.039 | mg/kg | 0.000904 % | ✓ | |
| | 033-003-00-0 | 215-481-4 | 1327-53-3 | | | | | | | | |
| 6 | barium { barium sulfate } | | | | 152 mg/kg | 1.7 | 198.713 | mg/kg | 0.0199 % | ✓ | |
| | | 231-784-4 | 7727-43-7 | | | | | | | | |
| 7 | cadmium { cadmium sulfide } | | | 1 | 0.2 mg/kg | 1.285 | 0.198 | mg/kg | 0.0000154 % | ✓ | |
| | 048-010-00-4 | 215-147-8 | 1306-23-6 | | | | | | | | |
| 8 | chromium in chromium(III) compounds { chromium(III) oxide } | | | | 32.5 mg/kg | 1.462 | 36.539 | mg/kg | 0.00365 % | ✓ | |
| | | 215-160-9 | 1308-38-9 | | | | | | | | |
| 9 | copper { dicopper oxide; copper (I) oxide } | | | | 15 mg/kg | 1.126 | 12.991 | mg/kg | 0.0013 % | ✓ | |
| | 029-002-00-X | 215-270-7 | 1317-39-1 | | | | | | | | |
| 10 | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } | | | 1 | 33 mg/kg | | 25.385 | mg/kg | 0.00254 % | ✓ | |
| | 082-001-00-6 | | | | | | | | | | |
| 11 | mercury { mercury dichloride } | | | | <0.1 mg/kg | 1.353 | <0.135 | mg/kg | <0.0000135 % | | <LOD |
| | 080-010-00-X | 231-299-8 | 7487-94-7 | | | | | | | | |
| 12 | nickel { nickel dihydroxide } | | | | 20.7 mg/kg | 1.579 | 25.15 | mg/kg | 0.00252 % | ✓ | |
| | 028-008-00-X | 235-008-5 [1] 234-348-1 [2] | 12054-48-7 [1] 11113-74-9 [2] | | | | | | | | |
| 13 | selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } | | | | 2 mg/kg | 2.554 | 3.929 | mg/kg | 0.000393 % | ✓ | |
| | 034-002-00-8 | | | | | | | | | | |

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|--------|---|--------------------------------|-----------------------------------|----------|-------------------|--------------|----------------|--------------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | |
| 14 | vanadium { divanadium pentaoxide; vanadium pentoxide } | | | | 35 mg/kg | 1.785 | 48.063 mg/kg | 0.00481 % | | ✓ | |
| | 023-001-00-8 | 215-239-8 | 1314-62-1 | | | | | | | | |
| 15 | boron { boron tribromide/trichloride/trifluoride (combined) } | | | | 1.2 mg/kg | 13.43 | 12.397 mg/kg | 0.00124 % | | ✓ | |
| | | | 10294-33-4, 10294-34-5, 7637-07-2 | | | | | | | | |
| 16 | zinc { zinc sulphate } | | | | 90 mg/kg | 2.469 | 170.951 mg/kg | 0.0171 % | | ✓ | |
| | 030-006-00-9 | 231-793-3 [1] 231-793-3 [2] | 7446-19-7 [1] 7733-02-0 [2] | | | | | | | | |
| 17 | chromium in chromium(VI) compounds { chromium(VI) oxide } | | | | <0.3 mg/kg | 1.923 | <0.577 mg/kg | <0.0000577 % | | | <LOD |
| | 024-001-00-0 | 215-607-8 | 1333-82-0 | | | | | | | | |
| 18 | TPH (C6 to C40) petroleum group | | | | <52 mg/kg | | <52 mg/kg | <0.0052 % | | | <LOD |
| | | | TPH | | | | | | | | |
| 19 | naphthalene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | 601-052-00-2 | 202-049-5 | 91-20-3 | | | | | | | | |
| 20 | acenaphthylene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | | <LOD |
| | | 205-917-1 | 208-96-8 | | | | | | | | |
| 21 | acenaphthene | | | | <0.05 mg/kg | | <0.05 mg/kg | <0.000005 % | | | <LOD |
| | | 201-469-6 | 83-32-9 | | | | | | | | |
| 22 | fluorene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 201-695-5 | 86-73-7 | | | | | | | | |
| 23 | phenanthrene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | | <LOD |
| | | 201-581-5 | 85-01-8 | | | | | | | | |
| 24 | anthracene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 204-371-1 | 120-12-7 | | | | | | | | |
| 25 | fluoranthene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | | <LOD |
| | | 205-912-4 | 206-44-0 | | | | | | | | |
| 26 | pyrene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | | <LOD |
| | | 204-927-3 | 129-00-0 | | | | | | | | |
| 27 | benzo[a]anthracene | | | | <0.06 mg/kg | | <0.06 mg/kg | <0.000006 % | | | <LOD |
| | 601-033-00-9 | 200-280-6 | 56-55-3 | | | | | | | | |
| 28 | chrysene | | | | <0.02 mg/kg | | <0.02 mg/kg | <0.000002 % | | | <LOD |
| | 601-048-00-0 | 205-923-4 | 218-01-9 | | | | | | | | |
| 29 | benzo[b]fluoranthene | | | | <0.05 mg/kg | | <0.05 mg/kg | <0.000005 % | | | <LOD |
| | 601-034-00-4 | 205-911-9 | 205-99-2 | | | | | | | | |
| 30 | benzo[k]fluoranthene | | | | <0.02 mg/kg | | <0.02 mg/kg | <0.000002 % | | | <LOD |
| | 601-036-00-5 | 205-916-6 | 207-08-9 | | | | | | | | |
| 31 | benzo[a]pyrene; benzo[def]chrysene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | 601-032-00-3 | 200-028-5 | 50-32-8 | | | | | | | | |
| 32 | indeno[123-cd]pyrene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 205-893-2 | 193-39-5 | | | | | | | | |
| 33 | dibenz[a,h]anthracene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | 601-041-00-2 | 200-181-8 | 53-70-3 | | | | | | | | |
| 34 | benzo[ghi]perylene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 205-883-8 | 191-24-2 | | | | | | | | |
| Total: | | | | | | | | | 0.06 % | | |

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 Determinand - 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

Classification of sample: 57629/TP#17-1

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

Sample details

| | |
|-------------------------|---|
| Sample Name: | LoW Code: |
| 57629/TP#17-1 | Chapter: |
| Moisture content: | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| 33.2% | Entry: |
| (dry weight correction) | 17 05 04 (Soil and stones other than those mentioned in 17 05 03) |

Hazard properties

None identified


Determinands

Moisture content: 33.2% Dry Weight Moisture Correction applied (MC)


| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|----|--|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|-------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | |
| 1 | pH | | | | 5.93 pH | | 5.93 | pH | 5.93 pH | | |
| 2 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } | | | | <0.5 mg/kg | 1.884 | <0.942 | mg/kg | <0.0000942 % | | <LOD |
| | 006-007-00-5 | | | | | | | | | | |
| 3 | phenol | | | | <0.01 mg/kg | | <0.01 | mg/kg | <0.000001 % | | <LOD |
| | 604-001-00-2 | 203-632-7 | 108-95-2 | | | | | | | | |
| 4 | antimony { antimony trioxide } | | | | 3 mg/kg | 1.197 | 2.696 | mg/kg | 0.00027 % | ✓ | |
| | 051-005-00-X | 215-175-0 | 1309-64-4 | | | | | | | | |
| 5 | arsenic { arsenic trioxide } | | | | 7.5 mg/kg | 1.32 | 7.434 | mg/kg | 0.000743 % | ✓ | |
| | 033-003-00-0 | 215-481-4 | 1327-53-3 | | | | | | | | |
| 6 | barium { barium sulfate } | | | | 129 mg/kg | 1.7 | 164.593 | mg/kg | 0.0165 % | ✓ | |
| | | 231-784-4 | 7727-43-7 | | | | | | | | |
| 7 | cadmium { cadmium sulfide } | | | 1 | 0.4 mg/kg | 1.285 | 0.386 | mg/kg | 0.00003 % | ✓ | |
| | 048-010-00-4 | 215-147-8 | 1306-23-6 | | | | | | | | |
| 8 | chromium in chromium(III) compounds { chromium(III) oxide } | | | | 39.9 mg/kg | 1.462 | 43.781 | mg/kg | 0.00438 % | ✓ | |
| | | 215-160-9 | 1308-38-9 | | | | | | | | |
| 9 | copper { dicopper oxide; copper (I) oxide } | | | | 20 mg/kg | 1.126 | 16.905 | mg/kg | 0.00169 % | ✓ | |
| | 029-002-00-X | 215-270-7 | 1317-39-1 | | | | | | | | |
| 10 | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } | | | 1 | 38 mg/kg | | 28.529 | mg/kg | 0.00285 % | ✓ | |
| | 082-001-00-6 | | | | | | | | | | |
| 11 | mercury { mercury dichloride } | | | | <0.1 mg/kg | 1.353 | <0.135 | mg/kg | <0.0000135 % | | <LOD |
| | 080-010-00-X | 231-299-8 | 7487-94-7 | | | | | | | | |
| 12 | nickel { nickel dihydroxide } | | | | 23.1 mg/kg | 1.579 | 27.392 | mg/kg | 0.00274 % | ✓ | |
| | 028-008-00-X | 235-008-5 [1] 234-348-1 [2] | 12054-48-7 [1] 11113-74-9 [2] | | | | | | | | |
| 13 | selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } | | | | 3 mg/kg | 2.554 | 5.751 | mg/kg | 0.000575 % | ✓ | |
| | 034-002-00-8 | | | | | | | | | | |

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|--------|---|--------------------------------|-----------------------------------|----------|-------------------|--------------|----------------|--------------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | |
| 14 | vanadium { divanadium pentaoxide; vanadium pentoxide } | | | | 38 mg/kg | 1.785 | 50.929 mg/kg | 0.00509 % | | ✓ | |
| | 023-001-00-8 | 215-239-8 | 1314-62-1 | | | | | | | | |
| 15 | boron { boron tribromide/trichloride/trifluoride (combined) } | | | | 0.8 mg/kg | 13.43 | 8.066 mg/kg | 0.000807 % | | ✓ | |
| | | | 10294-33-4, 10294-34-5, 7637-07-2 | | | | | | | | |
| 16 | zinc { zinc sulphate } | | | | 76 mg/kg | 2.469 | 140.891 mg/kg | 0.0141 % | | ✓ | |
| | 030-006-00-9 | 231-793-3 [1] 231-793-3 [2] | 7446-19-7 [1] 7733-02-0 [2] | | | | | | | | |
| 17 | chromium in chromium(VI) compounds { chromium(VI) oxide } | | | | <0.3 mg/kg | 1.923 | <0.577 mg/kg | <0.0000577 % | | | <LOD |
| | 024-001-00-0 | 215-607-8 | 1333-82-0 | | | | | | | | |
| 18 | TPH (C6 to C40) petroleum group | | | | <52 mg/kg | | <52 mg/kg | <0.0052 % | | | <LOD |
| | | | TPH | | | | | | | | |
| 19 | naphthalene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | 601-052-00-2 | 202-049-5 | 91-20-3 | | | | | | | | |
| 20 | acenaphthylene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | | <LOD |
| | | 205-917-1 | 208-96-8 | | | | | | | | |
| 21 | acenaphthene | | | | <0.05 mg/kg | | <0.05 mg/kg | <0.000005 % | | | <LOD |
| | | 201-469-6 | 83-32-9 | | | | | | | | |
| 22 | fluorene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 201-695-5 | 86-73-7 | | | | | | | | |
| 23 | phenanthrene | | | | 0.08 mg/kg | | 0.0601 mg/kg | 0.00000601 % | | ✓ | |
| | | 201-581-5 | 85-01-8 | | | | | | | | |
| 24 | anthracene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 204-371-1 | 120-12-7 | | | | | | | | |
| 25 | fluoranthene | | | | 0.16 mg/kg | | 0.12 mg/kg | 0.000012 % | | ✓ | |
| | | 205-912-4 | 206-44-0 | | | | | | | | |
| 26 | pyrene | | | | 0.13 mg/kg | | 0.0976 mg/kg | 0.00000976 % | | ✓ | |
| | | 204-927-3 | 129-00-0 | | | | | | | | |
| 27 | benzo[a]anthracene | | | | <0.06 mg/kg | | <0.06 mg/kg | <0.000006 % | | | <LOD |
| | 601-033-00-9 | 200-280-6 | 56-55-3 | | | | | | | | |
| 28 | chrysene | | | | 0.1 mg/kg | | 0.0751 mg/kg | 0.00000751 % | | ✓ | |
| | 601-048-00-0 | 205-923-4 | 218-01-9 | | | | | | | | |
| 29 | benzo[b]fluoranthene | | | | 0.1 mg/kg | | 0.0751 mg/kg | 0.00000751 % | | ✓ | |
| | 601-034-00-4 | 205-911-9 | 205-99-2 | | | | | | | | |
| 30 | benzo[k]fluoranthene | | | | 0.04 mg/kg | | 0.03 mg/kg | 0.000003 % | | ✓ | |
| | 601-036-00-5 | 205-916-6 | 207-08-9 | | | | | | | | |
| 31 | benzo[a]pyrene; benzo[def]chrysene | | | | 0.05 mg/kg | | 0.0375 mg/kg | 0.00000375 % | | ✓ | |
| | 601-032-00-3 | 200-028-5 | 50-32-8 | | | | | | | | |
| 32 | indeno[123-cd]pyrene | | | | 0.05 mg/kg | | 0.0375 mg/kg | 0.00000375 % | | ✓ | |
| | | 205-893-2 | 193-39-5 | | | | | | | | |
| 33 | dibenz[a,h]anthracene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | 601-041-00-2 | 200-181-8 | 53-70-3 | | | | | | | | |
| 34 | benzo[ghi]perylene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 205-883-8 | 191-24-2 | | | | | | | | |
| Total: | | | | | | | | | 0.0552 % | | |

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 Determinand - 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

Classification of sample: 57629/TP#17-2

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

Sample details

| | |
|-------------------------|---|
| Sample Name: | LoW Code: |
| 57629/TP#17-2 | Chapter: |
| Moisture content: | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| 22.8% | Entry: |
| (dry weight correction) | 17 05 04 (Soil and stones other than those mentioned in 17 05 03) |

Hazard properties

None identified


Determinands

Moisture content: 22.8% Dry Weight Moisture Correction applied (MC)

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|----|--|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|-------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | |
| 1 | pH | | | | 6.29 pH | | 6.29 | pH | 6.29 pH | | |
| 2 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } | | | | <0.5 mg/kg | 1.884 | <0.942 | mg/kg | <0.0000942 % | | <LOD |
| | 006-007-00-5 | | | | | | | | | | |
| 3 | phenol | | | | <0.01 mg/kg | | <0.01 | mg/kg | <0.000001 % | | <LOD |
| | 604-001-00-2 | 203-632-7 | 108-95-2 | | | | | | | | |
| 4 | antimony { antimony trioxide } | | | | 3 mg/kg | 1.197 | 2.925 | mg/kg | 0.000292 % | ✓ | |
| | 051-005-00-X | 215-175-0 | 1309-64-4 | | | | | | | | |
| 5 | arsenic { arsenic trioxide } | | | | 5.1 mg/kg | 1.32 | 5.483 | mg/kg | 0.000548 % | ✓ | |
| | 033-003-00-0 | 215-481-4 | 1327-53-3 | | | | | | | | |
| 6 | barium { barium sulfate } | | | | 79 mg/kg | 1.7 | 109.334 | mg/kg | 0.0109 % | ✓ | |
| | | 231-784-4 | 7727-43-7 | | | | | | | | |
| 7 | cadmium { cadmium sulfide } | | | 1 | 0.1 mg/kg | 1.285 | 0.105 | mg/kg | 0.00000814 % | ✓ | |
| | 048-010-00-4 | 215-147-8 | 1306-23-6 | | | | | | | | |
| 8 | chromium in chromium(III) compounds { chromium(III) oxide } | | | | 36 mg/kg | 1.462 | 42.847 | mg/kg | 0.00428 % | ✓ | |
| | | 215-160-9 | 1308-38-9 | | | | | | | | |
| 9 | copper { dicopper oxide; copper (I) oxide } | | | | 14 mg/kg | 1.126 | 12.836 | mg/kg | 0.00128 % | ✓ | |
| | 029-002-00-X | 215-270-7 | 1317-39-1 | | | | | | | | |
| 10 | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } | | | 1 | 14 mg/kg | | 11.401 | mg/kg | 0.00114 % | ✓ | |
| | 082-001-00-6 | | | | | | | | | | |
| 11 | mercury { mercury dichloride } | | | | <0.1 mg/kg | 1.353 | <0.135 | mg/kg | <0.0000135 % | | <LOD |
| | 080-010-00-X | 231-299-8 | 7487-94-7 | | | | | | | | |
| 12 | nickel { nickel dihydroxide } | | | | 21.4 mg/kg | 1.579 | 27.525 | mg/kg | 0.00275 % | ✓ | |
| | 028-008-00-X | 235-008-5 [1] 234-348-1 [2] | 12054-48-7 [1] 11113-74-9 [2] | | | | | | | | |
| 13 | selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } | | | | 2 mg/kg | 2.554 | 4.159 | mg/kg | 0.000416 % | ✓ | |
| | 034-002-00-8 | | | | | | | | | | |

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|---|--------------------------------|-----------------------------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | |
| 14 | vanadium { divanadium pentaoxide; vanadium pentoxide } | | | | 39 mg/kg | 1.785 | 56.696 mg/kg | 0.00567 % | ✓ | |
| | 023-001-00-8 | 215-239-8 | 1314-62-1 | | | | | | | |
| 15 | boron { boron tribromide/trichloride/trifluoride (combined) } | | | | 0.4 mg/kg | 13.43 | 4.375 mg/kg | 0.000437 % | ✓ | |
| | | | 10294-33-4, 10294-34-5, 7637-07-2 | | | | | | | |
| 16 | zinc { zinc sulphate } | | | | 44 mg/kg | 2.469 | 88.476 mg/kg | 0.00885 % | ✓ | |
| | 030-006-00-9 | 231-793-3 [1] 231-793-3 [2] | 7446-19-7 [1] 7733-02-0 [2] | | | | | | | |
| 17 | chromium in chromium(VI) compounds { chromium(VI) oxide } | | | | <0.3 mg/kg | 1.923 | <0.577 mg/kg | <0.0000577 % | | <LOD |
| | 024-001-00-0 | 215-607-8 | 1333-82-0 | | | | | | | |
| 18 | TPH (C6 to C40) petroleum group | | | | <52 mg/kg | | <52 mg/kg | <0.0052 % | | <LOD |
| | | | TPH | | | | | | | |
| 19 | naphthalene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | <LOD |
| | 601-052-00-2 | 202-049-5 | 91-20-3 | | | | | | | |
| 20 | acenaphthylene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | <LOD |
| | | 205-917-1 | 208-96-8 | | | | | | | |
| 21 | acenaphthene | | | | <0.05 mg/kg | | <0.05 mg/kg | <0.000005 % | | <LOD |
| | | 201-469-6 | 83-32-9 | | | | | | | |
| 22 | fluorene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | <LOD |
| | | 201-695-5 | 86-73-7 | | | | | | | |
| 23 | phenanthrene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | <LOD |
| | | 201-581-5 | 85-01-8 | | | | | | | |
| 24 | anthracene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | <LOD |
| | | 204-371-1 | 120-12-7 | | | | | | | |
| 25 | fluoranthene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | <LOD |
| | | 205-912-4 | 206-44-0 | | | | | | | |
| 26 | pyrene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | <LOD |
| | | 204-927-3 | 129-00-0 | | | | | | | |
| 27 | benzo[a]anthracene | | | | <0.06 mg/kg | | <0.06 mg/kg | <0.000006 % | | <LOD |
| | 601-033-00-9 | 200-280-6 | 56-55-3 | | | | | | | |
| 28 | chrysene | | | | <0.02 mg/kg | | <0.02 mg/kg | <0.000002 % | | <LOD |
| | 601-048-00-0 | 205-923-4 | 218-01-9 | | | | | | | |
| 29 | benzo[b]fluoranthene | | | | <0.05 mg/kg | | <0.05 mg/kg | <0.000005 % | | <LOD |
| | 601-034-00-4 | 205-911-9 | 205-99-2 | | | | | | | |
| 30 | benzo[k]fluoranthene | | | | <0.02 mg/kg | | <0.02 mg/kg | <0.000002 % | | <LOD |
| | 601-036-00-5 | 205-916-6 | 207-08-9 | | | | | | | |
| 31 | benzo[a]pyrene; benzo[def]chrysene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | <LOD |
| | 601-032-00-3 | 200-028-5 | 50-32-8 | | | | | | | |
| 32 | indeno[123-cd]pyrene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | <LOD |
| | | 205-893-2 | 193-39-5 | | | | | | | |
| 33 | dibenz[a,h]anthracene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | <LOD |
| | 601-041-00-2 | 200-181-8 | 53-70-3 | | | | | | | |
| 34 | benzo[ghi]perylene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | <LOD |
| | | 205-883-8 | 191-24-2 | | | | | | | |
| Total: | | | | | | | | 0.042 % | | |

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 Determinand - 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

Classification of sample: 57629/TP#18-1

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

Sample details

| | |
|-------------------------|---|
| Sample Name: | LoW Code: |
| 57629/TP#18-1 | Chapter: |
| Moisture content: | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| 25.9% | Entry: |
| (dry weight correction) | 17 05 04 (Soil and stones other than those mentioned in 17 05 03) |

Hazard properties

None identified


Determinands

Moisture content: 25.9% Dry Weight Moisture Correction applied (MC)

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|----|--|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|-------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | |
| 1 | pH | | | | 6.42 pH | | 6.42 | pH | 6.42 pH | | |
| 2 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } | | | | <0.5 mg/kg | 1.884 | <0.942 | mg/kg | <0.0000942 % | | <LOD |
| | 006-007-00-5 | | | | | | | | | | |
| 3 | phenol | | | | <0.01 mg/kg | | <0.01 | mg/kg | <0.000001 % | | <LOD |
| | 604-001-00-2 | 203-632-7 | 108-95-2 | | | | | | | | |
| 4 | antimony { antimony trioxide } | | | | 6 mg/kg | 1.197 | 5.705 | mg/kg | 0.000571 % | ✓ | |
| | 051-005-00-X | 215-175-0 | 1309-64-4 | | | | | | | | |
| 5 | arsenic { arsenic trioxide } | | | | 29.7 mg/kg | 1.32 | 31.147 | mg/kg | 0.00311 % | ✓ | |
| | 033-003-00-0 | 215-481-4 | 1327-53-3 | | | | | | | | |
| 6 | barium { barium sulfate } | | | | 247 mg/kg | 1.7 | 333.424 | mg/kg | 0.0333 % | ✓ | |
| | | 231-784-4 | 7727-43-7 | | | | | | | | |
| 7 | cadmium { cadmium sulfide } | | | 1 | 0.5 mg/kg | 1.285 | 0.51 | mg/kg | 0.0000397 % | ✓ | |
| | 048-010-00-4 | 215-147-8 | 1306-23-6 | | | | | | | | |
| 8 | chromium in chromium(III) compounds { chromium(III) oxide } | | | | 34.7 mg/kg | 1.462 | 40.283 | mg/kg | 0.00403 % | ✓ | |
| | | 215-160-9 | 1308-38-9 | | | | | | | | |
| 9 | copper { dicopper oxide; copper (I) oxide } | | | | 70 mg/kg | 1.126 | 62.599 | mg/kg | 0.00626 % | ✓ | |
| | 029-002-00-X | 215-270-7 | 1317-39-1 | | | | | | | | |
| 10 | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } | | | 1 | 167 mg/kg | | 132.645 | mg/kg | 0.0133 % | ✓ | |
| | 082-001-00-6 | | | | | | | | | | |
| 11 | mercury { mercury dichloride } | | | | 0.2 mg/kg | 1.353 | 0.215 | mg/kg | 0.0000215 % | ✓ | |
| | 080-010-00-X | 231-299-8 | 7487-94-7 | | | | | | | | |
| 12 | nickel { nickel dihydroxide } | | | | 23.6 mg/kg | 1.579 | 29.608 | mg/kg | 0.00296 % | ✓ | |
| | 028-008-00-X | 235-008-5 [1] 234-348-1 [2] | 12054-48-7 [1] 11113-74-9 [2] | | | | | | | | |
| 13 | selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } | | | | 2 mg/kg | 2.554 | 4.057 | mg/kg | 0.000406 % | ✓ | |
| | 034-002-00-8 | | | | | | | | | | |

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|---|--------------------------------|-----------------------------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | |
| 14 | vanadium { divanadium pentaoxide; vanadium pentoxide } | | | | 44 mg/kg | 1.785 | 62.389 mg/kg | 0.00624 % | ✓ | |
| | 023-001-00-8 | 215-239-8 | 1314-62-1 | | | | | | | |
| 15 | boron { boron tribromide/trichloride/trifluoride (combined) } | | | | 1.4 mg/kg | 13.43 | 14.934 mg/kg | 0.00149 % | ✓ | |
| | | | 10294-33-4, 10294-34-5, 7637-07-2 | | | | | | | |
| 16 | zinc { zinc sulphate } | | | | 183 mg/kg | 2.469 | 358.921 mg/kg | 0.0359 % | ✓ | |
| | 030-006-00-9 | 231-793-3 [1] 231-793-3 [2] | 7446-19-7 [1] 7733-02-0 [2] | | | | | | | |
| 17 | chromium in chromium(VI) compounds { chromium(VI) oxide } | | | | <0.3 mg/kg | 1.923 | <0.577 mg/kg | <0.0000577 % | | <LOD |
| | 024-001-00-0 | 215-607-8 | 1333-82-0 | | | | | | | |
| 18 | TPH (C6 to C40) petroleum group | | | | 135 mg/kg | | 107.228 mg/kg | 0.0107 % | ✓ | |
| | | | TPH | | | | | | | |
| 19 | naphthalene | | | | 0.06 mg/kg | | 0.0477 mg/kg | 0.00000477 % | ✓ | |
| | 601-052-00-2 | 202-049-5 | 91-20-3 | | | | | | | |
| 20 | acenaphthylene | | | | 0.06 mg/kg | | 0.0477 mg/kg | 0.00000477 % | ✓ | |
| | | 205-917-1 | 208-96-8 | | | | | | | |
| 21 | acenaphthene | | | | <0.05 mg/kg | | <0.05 mg/kg | <0.000005 % | | <LOD |
| | | 201-469-6 | 83-32-9 | | | | | | | |
| 22 | fluorene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | <LOD |
| | | 201-695-5 | 86-73-7 | | | | | | | |
| 23 | phenanthrene | | | | 0.32 mg/kg | | 0.254 mg/kg | 0.0000254 % | ✓ | |
| | | 201-581-5 | 85-01-8 | | | | | | | |
| 24 | anthracene | | | | 0.06 mg/kg | | 0.0477 mg/kg | 0.00000477 % | ✓ | |
| | | 204-371-1 | 120-12-7 | | | | | | | |
| 25 | fluoranthene | | | | 0.56 mg/kg | | 0.445 mg/kg | 0.0000445 % | ✓ | |
| | | 205-912-4 | 206-44-0 | | | | | | | |
| 26 | pyrene | | | | 0.48 mg/kg | | 0.381 mg/kg | 0.0000381 % | ✓ | |
| | | 204-927-3 | 129-00-0 | | | | | | | |
| 27 | benzo[a]anthracene | | | | 0.24 mg/kg | | 0.191 mg/kg | 0.0000191 % | ✓ | |
| | 601-033-00-9 | 200-280-6 | 56-55-3 | | | | | | | |
| 28 | chrysene | | | | 0.29 mg/kg | | 0.23 mg/kg | 0.000023 % | ✓ | |
| | 601-048-00-0 | 205-923-4 | 218-01-9 | | | | | | | |
| 29 | benzo[b]fluoranthene | | | | 0.4 mg/kg | | 0.318 mg/kg | 0.0000318 % | ✓ | |
| | 601-034-00-4 | 205-911-9 | 205-99-2 | | | | | | | |
| 30 | benzo[k]fluoranthene | | | | 0.15 mg/kg | | 0.119 mg/kg | 0.0000119 % | ✓ | |
| | 601-036-00-5 | 205-916-6 | 207-08-9 | | | | | | | |
| 31 | benzo[a]pyrene; benzo[def]chrysene | | | | 0.28 mg/kg | | 0.222 mg/kg | 0.0000222 % | ✓ | |
| | 601-032-00-3 | 200-028-5 | 50-32-8 | | | | | | | |
| 32 | indeno[123-cd]pyrene | | | | 0.18 mg/kg | | 0.143 mg/kg | 0.0000143 % | ✓ | |
| | | 205-893-2 | 193-39-5 | | | | | | | |
| 33 | dibenz[a,h]anthracene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | <LOD |
| | 601-041-00-2 | 200-181-8 | 53-70-3 | | | | | | | |
| 34 | benzo[ghi]perylene | | | | 0.2 mg/kg | | 0.159 mg/kg | 0.0000159 % | ✓ | |
| | | 205-883-8 | 191-24-2 | | | | | | | |
| Total: | | | | | | | | 0.119 % | | |

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 Determinand - 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 because There is no evidence of hydrocarbons being present as fuel based hydrocarbons and there is no free product, olfactory or visual evidence of hydrocarbons, the material is in a refractory matrix and the hydrocarbon level is very low with no volatile components.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0107%)

Classification of sample: 57629/TP#18-2

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

Sample details

| | |
|-------------------------|---|
| Sample Name: | LoW Code: |
| 57629/TP#18-2 | Chapter: |
| Moisture content: | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| 19.6% | Entry: |
| (dry weight correction) | 17 05 04 (Soil and stones other than those mentioned in 17 05 03) |

Hazard properties

None identified


Determinands

Moisture content: 19.6% Dry Weight Moisture Correction applied (MC)

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|----|--|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | |
| 1 | pH | | | | 7.04 pH | | 7.04 pH | 7.04 pH | | |
| 2 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } | | | | <0.5 mg/kg | 1.884 | <0.942 mg/kg | <0.0000942 % | | <LOD |
| | 006-007-00-5 | | | | | | | | | |
| 3 | phenol | | | | <0.01 mg/kg | | <0.01 mg/kg | <0.000001 % | | <LOD |
| | 604-001-00-2 | 203-632-7 | 108-95-2 | | | | | | | |
| 4 | antimony { antimony trioxide } | | | | 2 mg/kg | 1.197 | 2.002 mg/kg | 0.0002 % | ✓ | |
| | 051-005-00-X | 215-175-0 | 1309-64-4 | | | | | | | |
| 5 | arsenic { arsenic trioxide } | | | | 10.1 mg/kg | 1.32 | 11.15 mg/kg | 0.00111 % | ✓ | |
| | 033-003-00-0 | 215-481-4 | 1327-53-3 | | | | | | | |
| 6 | barium { barium sulfate } | | | | 49 mg/kg | 1.7 | 69.629 mg/kg | 0.00696 % | ✓ | |
| | | 231-784-4 | 7727-43-7 | | | | | | | |
| 7 | cadmium { cadmium sulfide } | | | 1 | 0.1 mg/kg | 1.285 | 0.107 mg/kg | 0.00000836 % | ✓ | |
| | 048-010-00-4 | 215-147-8 | 1306-23-6 | | | | | | | |
| 8 | chromium in chromium(III) compounds { chromium(III) oxide } | | | | 32.4 mg/kg | 1.462 | 39.594 mg/kg | 0.00396 % | ✓ | |
| | | 215-160-9 | 1308-38-9 | | | | | | | |
| 9 | copper { dicopper oxide; copper (I) oxide } | | | | 22 mg/kg | 1.126 | 20.71 mg/kg | 0.00207 % | ✓ | |
| | 029-002-00-X | 215-270-7 | 1317-39-1 | | | | | | | |
| 10 | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } | | | 1 | 10 mg/kg | | 8.361 mg/kg | 0.000836 % | ✓ | |
| | 082-001-00-6 | | | | | | | | | |
| 11 | mercury { mercury dichloride } | | | | <0.1 mg/kg | 1.353 | <0.135 mg/kg | <0.0000135 % | | <LOD |
| | 080-010-00-X | 231-299-8 | 7487-94-7 | | | | | | | |
| 12 | nickel { nickel dihydroxide } | | | | 20 mg/kg | 1.579 | 26.413 mg/kg | 0.00264 % | ✓ | |
| | 028-008-00-X | 235-008-5 [1] 234-348-1 [2] | 12054-48-7 [1] 11113-74-9 [2] | | | | | | | |
| 13 | selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } | | | | <1 mg/kg | 2.554 | <2.554 mg/kg | <0.000255 % | | <LOD |
| | 034-002-00-8 | | | | | | | | | |

| # | Determinand | | | CLP Note | User entered data | | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|--------|---|--------------------------------|---|----------|-------------------|-------|--------------|----------------|-------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | | |
| 14 | vanadium { divanadium pentaoxide; vanadium pentoxide } | | | | 29 | mg/kg | 1.785 | 43.286 | mg/kg | 0.00433 % | ✓ | |
| | 023-001-00-8 | 215-239-8 | 1314-62-1 | | | | | | | | | |
| 15 | boron { boron tribromide/trichloride/trifluoride (combined) } | | | | 0.6 | mg/kg | 13.43 | 6.737 | mg/kg | 0.000674 % | ✓ | |
| | | | 10294-33-4, 10294-34-5, 7637-07-2 | | | | | | | | | |
| 16 | zinc { zinc sulphate } | | | | 79 | mg/kg | 2.469 | 163.106 | mg/kg | 0.0163 % | ✓ | |
| | 030-006-00-9 | 231-793-3 [1] 231-793-3 [2] | 7446-19-7 [1] 7733-02-0 [2] | | | | | | | | | |
| 17 | chromium in chromium(VI) compounds { chromium(VI) oxide } | | | | <0.3 | mg/kg | 1.923 | <0.577 | mg/kg | <0.0000577 % | | <LOD |
| | 024-001-00-0 | 215-607-8 | 1333-82-0 | | | | | | | | | |
| 18 | TPH (C6 to C40) petroleum group | | | | <52 | mg/kg | | <52 | mg/kg | <0.0052 % | | <LOD |
| | | | TPH | | | | | | | | | |
| 19 | naphthalene | | | | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | 601-052-00-2 | 202-049-5 | 91-20-3 | | | | | | | | | |
| 20 | acenaphthylene | | | | <0.03 | mg/kg | | <0.03 | mg/kg | <0.000003 % | | <LOD |
| | | 205-917-1 | 208-96-8 | | | | | | | | | |
| 21 | acenaphthene | | | | <0.05 | mg/kg | | <0.05 | mg/kg | <0.000005 % | | <LOD |
| | | 201-469-6 | 83-32-9 | | | | | | | | | |
| 22 | fluorene | | | | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | | 201-695-5 | 86-73-7 | | | | | | | | | |
| 23 | phenanthrene | | | | <0.03 | mg/kg | | <0.03 | mg/kg | <0.000003 % | | <LOD |
| | | 201-581-5 | 85-01-8 | | | | | | | | | |
| 24 | anthracene | | | | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | | 204-371-1 | 120-12-7 | | | | | | | | | |
| 25 | fluoranthene | | | | <0.03 | mg/kg | | <0.03 | mg/kg | <0.000003 % | | <LOD |
| | | 205-912-4 | 206-44-0 | | | | | | | | | |
| 26 | pyrene | | | | <0.03 | mg/kg | | <0.03 | mg/kg | <0.000003 % | | <LOD |
| | | 204-927-3 | 129-00-0 | | | | | | | | | |
| 27 | benzo[a]anthracene | | | | <0.06 | mg/kg | | <0.06 | mg/kg | <0.000006 % | | <LOD |
| | 601-033-00-9 | 200-280-6 | 56-55-3 | | | | | | | | | |
| 28 | chrysene | | | | <0.02 | mg/kg | | <0.02 | mg/kg | <0.000002 % | | <LOD |
| | 601-048-00-0 | 205-923-4 | 218-01-9 | | | | | | | | | |
| 29 | benzo[b]fluoranthene | | | | <0.05 | mg/kg | | <0.05 | mg/kg | <0.000005 % | | <LOD |
| | 601-034-00-4 | 205-911-9 | 205-99-2 | | | | | | | | | |
| 30 | benzo[k]fluoranthene | | | | <0.02 | mg/kg | | <0.02 | mg/kg | <0.000002 % | | <LOD |
| | 601-036-00-5 | 205-916-6 | 207-08-9 | | | | | | | | | |
| 31 | benzo[a]pyrene; benzo[def]chrysene | | | | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | 601-032-00-3 | 200-028-5 | 50-32-8 | | | | | | | | | |
| 32 | indeno[123-cd]pyrene | | | | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | | 205-893-2 | 193-39-5 | | | | | | | | | |
| 33 | dibenz[a,h]anthracene | | | | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | 601-041-00-2 | 200-181-8 | 53-70-3 | | | | | | | | | |
| 34 | benzo[ghi]perylene | | | | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| | | 205-883-8 | 191-24-2 | | | | | | | | | |
| Total: | | | | | | | | | | 0.0448 % | | |

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 Determinand - 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

Classification of sample: 57629/TP#19-1

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

Sample details

| | | |
|--|-----------------------|---|
| Sample Name: 57629/TP#19-1 | LoW Code: Chapter: | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| Moisture content: 35.4% (dry weight correction) | Entry: | 17 05 04 (Soil and stones other than those mentioned in 17 05 03) |

Hazard properties

None identified


Determinands

Moisture content: 35.4% Dry Weight Moisture Correction applied (MC)

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|----|--|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | |
| 1 | pH | | | | 6.09 pH | | 6.09 pH | 6.09 pH | | |
| 2 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } | | | | <0.5 mg/kg | 1.884 | <0.942 mg/kg | <0.0000942 % | | <LOD |
| | 006-007-00-5 | | | | | | | | | |
| 3 | phenol | | | | <0.01 mg/kg | | <0.01 mg/kg | <0.000001 % | | <LOD |
| | 604-001-00-2 | 203-632-7 | 108-95-2 | | | | | | | |
| 4 | antimony { antimony trioxide } | | | | 4 mg/kg | 1.197 | 3.536 mg/kg | 0.000354 % | ✓ | |
| | 051-005-00-X | 215-175-0 | 1309-64-4 | | | | | | | |
| 5 | arsenic { arsenic trioxide } | | | | 16.9 mg/kg | 1.32 | 16.48 mg/kg | 0.00165 % | ✓ | |
| | 033-003-00-0 | 215-481-4 | 1327-53-3 | | | | | | | |
| 6 | barium { barium sulfate } | | | | 222 mg/kg | 1.7 | 278.651 mg/kg | 0.0279 % | ✓ | |
| | | 231-784-4 | 7727-43-7 | | | | | | | |
| 7 | cadmium { cadmium sulfide } | | | 1 | 0.7 mg/kg | 1.285 | 0.664 mg/kg | 0.0000517 % | ✓ | |
| | 048-010-00-4 | 215-147-8 | 1306-23-6 | | | | | | | |
| 8 | chromium in chromium(III) compounds { chromium(III) oxide } | | | | 41 mg/kg | 1.462 | 44.257 mg/kg | 0.00443 % | ✓ | |
| | | 215-160-9 | 1308-38-9 | | | | | | | |
| 9 | copper { dicopper oxide; copper (I) oxide } | | | | 62 mg/kg | 1.126 | 51.555 mg/kg | 0.00516 % | ✓ | |
| | 029-002-00-X | 215-270-7 | 1317-39-1 | | | | | | | |
| 10 | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } | | | 1 | 100 mg/kg | | 73.855 mg/kg | 0.00739 % | ✓ | |
| | 082-001-00-6 | | | | | | | | | |
| 11 | mercury { mercury dichloride } | | | | 0.1 mg/kg | 1.353 | 0.1 mg/kg | 0.00001 % | ✓ | |
| | 080-010-00-X | 231-299-8 | 7487-94-7 | | | | | | | |
| 12 | nickel { nickel dihydroxide } | | | | 28.2 mg/kg | 1.579 | 32.897 mg/kg | 0.00329 % | ✓ | |
| | 028-008-00-X | 235-008-5 [1] 234-348-1 [2] | 12054-48-7 [1] 11113-74-9 [2] | | | | | | | |
| 13 | selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } | | | | 2 mg/kg | 2.554 | 3.772 mg/kg | 0.000377 % | ✓ | |
| | 034-002-00-8 | | | | | | | | | |

| # | Determinand | | | CLP Note | User entered data | | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|--------|---|--------------|-----------------------------------|-----------------------------|-------------------|-------|--------------|----------------|-------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | | |
| 14 | vanadium { divanadium pentaoxide; vanadium pentoxide } | 023-001-00-8 | 215-239-8 | 1314-62-1 | 45 | mg/kg | 1.785 | 59.33 | mg/kg | 0.00593 % | ✓ | |
| 15 | boron { boron tribromide/trichloride/trifluoride (combined) } | | 10294-33-4, 10294-34-5, 7637-07-2 | | 0.9 | mg/kg | 13.43 | 8.927 | mg/kg | 0.000893 % | ✓ | |
| 16 | zinc { zinc sulphate } | 030-006-00-9 | 231-793-3 [1] 231-793-3 [2] | 7446-19-7 [1] 7733-02-0 [2] | 153 | mg/kg | 2.469 | 279.027 | mg/kg | 0.0279 % | ✓ | |
| 17 | chromium in chromium(VI) compounds { chromium(VI) oxide } | 024-001-00-0 | 215-607-8 | 1333-82-0 | <0.3 | mg/kg | 1.923 | <0.577 | mg/kg | <0.0000577 % | | <LOD |
| 18 | TPH (C6 to C40) petroleum group | | TPH | | 143 | mg/kg | | 105.613 | mg/kg | 0.0106 % | ✓ | |
| 19 | naphthalene | 601-052-00-2 | 202-049-5 | 91-20-3 | 0.1 | mg/kg | | 0.0739 | mg/kg | 0.00000739 % | ✓ | |
| 20 | acenaphthylene | | 205-917-1 | 208-96-8 | <0.03 | mg/kg | | <0.03 | mg/kg | <0.000003 % | | <LOD |
| 21 | acenaphthene | | 201-469-6 | 83-32-9 | <0.05 | mg/kg | | <0.05 | mg/kg | <0.000005 % | | <LOD |
| 22 | fluorene | | 201-695-5 | 86-73-7 | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| 23 | phenanthrene | | 201-581-5 | 85-01-8 | 0.44 | mg/kg | | 0.325 | mg/kg | 0.0000325 % | ✓ | |
| 24 | anthracene | | 204-371-1 | 120-12-7 | 0.12 | mg/kg | | 0.0886 | mg/kg | 0.00000886 % | ✓ | |
| 25 | fluoranthene | | 205-912-4 | 206-44-0 | 0.66 | mg/kg | | 0.487 | mg/kg | 0.0000487 % | ✓ | |
| 26 | pyrene | | 204-927-3 | 129-00-0 | 0.54 | mg/kg | | 0.399 | mg/kg | 0.0000399 % | ✓ | |
| 27 | benzo[a]anthracene | 601-033-00-9 | 200-280-6 | 56-55-3 | 0.28 | mg/kg | | 0.207 | mg/kg | 0.0000207 % | ✓ | |
| 28 | chrysene | 601-048-00-0 | 205-923-4 | 218-01-9 | 0.28 | mg/kg | | 0.207 | mg/kg | 0.0000207 % | ✓ | |
| 29 | benzo[b]fluoranthene | 601-034-00-4 | 205-911-9 | 205-99-2 | 0.38 | mg/kg | | 0.281 | mg/kg | 0.0000281 % | ✓ | |
| 30 | benzo[k]fluoranthene | 601-036-00-5 | 205-916-6 | 207-08-9 | 0.15 | mg/kg | | 0.111 | mg/kg | 0.0000111 % | ✓ | |
| 31 | benzo[a]pyrene; benzo[def]chrysene | 601-032-00-3 | 200-028-5 | 50-32-8 | 0.24 | mg/kg | | 0.177 | mg/kg | 0.0000177 % | ✓ | |
| 32 | indeno[123-cd]pyrene | | 205-893-2 | 193-39-5 | 0.18 | mg/kg | | 0.133 | mg/kg | 0.0000133 % | ✓ | |
| 33 | dibenz[a,h]anthracene | 601-041-00-2 | 200-181-8 | 53-70-3 | <0.04 | mg/kg | | <0.04 | mg/kg | <0.000004 % | | <LOD |
| 34 | benzo[ghi]perylene | | 205-883-8 | 191-24-2 | 0.17 | mg/kg | | 0.126 | mg/kg | 0.0000126 % | ✓ | |
| Total: | | | | | | | | | | 0.0963 % | | |

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 Determinand - 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 because There is no evidence of hydrocarbons being present as fuel based hydrocarbons and there is no free product, olfactory or visual evidence of hydrocarbons, the material is in a refractory matrix and the hydrocarbon level is very low with no volatile components.


Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0106%)

Classification of sample: 57629/TP#19-2

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

Sample details

| | |
|-------------------------|---|
| Sample Name: | LoW Code: |
| 57629/TP#19-2 | Chapter: |
| Moisture content: | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| 27.1% | Entry: |
| (dry weight correction) | 17 05 04 (Soil and stones other than those mentioned in 17 05 03) |

Hazard properties

None identified


Determinands

Moisture content: 27.1% Dry Weight Moisture Correction applied (MC)

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|----|--|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|-------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | |
| 1 | pH | | | | 6.8 pH | | 6.8 | pH | 6.8 pH | | |
| 2 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } | | | | 0.7 mg/kg | 1.884 | 1.038 | mg/kg | 0.000104 % | ✓ | |
| | 006-007-00-5 | | | | | | | | | | |
| 3 | phenol | | | | <0.01 mg/kg | | <0.01 | mg/kg | <0.000001 % | | <LOD |
| | 604-001-00-2 | 203-632-7 | 108-95-2 | | | | | | | | |
| 4 | antimony { antimony trioxide } | | | | 2 mg/kg | 1.197 | 1.884 | mg/kg | 0.000188 % | ✓ | |
| | 051-005-00-X | 215-175-0 | 1309-64-4 | | | | | | | | |
| 5 | arsenic { arsenic trioxide } | | | | 7.2 mg/kg | 1.32 | 7.479 | mg/kg | 0.000748 % | ✓ | |
| | 033-003-00-0 | 215-481-4 | 1327-53-3 | | | | | | | | |
| 6 | barium { barium sulfate } | | | | 102 mg/kg | 1.7 | 136.389 | mg/kg | 0.0136 % | ✓ | |
| | | 231-784-4 | 7727-43-7 | | | | | | | | |
| 7 | cadmium { cadmium sulfide } | | | 1 | 0.1 mg/kg | 1.285 | 0.101 | mg/kg | 0.00000787 % | ✓ | |
| | 048-010-00-4 | 215-147-8 | 1306-23-6 | | | | | | | | |
| 8 | chromium in chromium(III) compounds { chromium(III) oxide } | | | | 37.7 mg/kg | 1.462 | 43.352 | mg/kg | 0.00434 % | ✓ | |
| | | 215-160-9 | 1308-38-9 | | | | | | | | |
| 9 | copper { dicopper oxide; copper (I) oxide } | | | | 18 mg/kg | 1.126 | 15.945 | mg/kg | 0.00159 % | ✓ | |
| | 029-002-00-X | 215-270-7 | 1317-39-1 | | | | | | | | |
| 10 | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } | | | 1 | 25 mg/kg | | 19.67 | mg/kg | 0.00197 % | ✓ | |
| | 082-001-00-6 | | | | | | | | | | |
| 11 | mercury { mercury dichloride } | | | | <0.1 mg/kg | 1.353 | <0.135 | mg/kg | <0.0000135 % | | <LOD |
| | 080-010-00-X | 231-299-8 | 7487-94-7 | | | | | | | | |
| 12 | nickel { nickel dihydroxide } | | | | 18.5 mg/kg | 1.579 | 22.99 | mg/kg | 0.0023 % | ✓ | |
| | 028-008-00-X | 235-008-5 [1] 234-348-1 [2] | 12054-48-7 [1] 11113-74-9 [2] | | | | | | | | |
| 13 | selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } | | | | 2 mg/kg | 2.554 | 4.018 | mg/kg | 0.000402 % | ✓ | |
| | 034-002-00-8 | | | | | | | | | | |

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|--------|---|--------------------------------|-----------------------------------|----------|-------------------|--------------|----------------|--------------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | |
| 14 | vanadium { divanadium pentaoxide; vanadium pentoxide } | | | | 31 mg/kg | 1.785 | 43.541 mg/kg | 0.00435 % | | ✓ | |
| | 023-001-00-8 | 215-239-8 | 1314-62-1 | | | | | | | | |
| 15 | boron { boron tribromide/trichloride/trifluoride (combined) } | | | | 0.7 mg/kg | 13.43 | 7.397 mg/kg | 0.00074 % | | ✓ | |
| | | | 10294-33-4, 10294-34-5, 7637-07-2 | | | | | | | | |
| 16 | zinc { zinc sulphate } | | | | 95 mg/kg | 2.469 | 184.566 mg/kg | 0.0185 % | | ✓ | |
| | 030-006-00-9 | 231-793-3 [1] 231-793-3 [2] | 7446-19-7 [1] 7733-02-0 [2] | | | | | | | | |
| 17 | chromium in chromium(VI) compounds { chromium(VI) oxide } | | | | <0.3 mg/kg | 1.923 | <0.577 mg/kg | <0.0000577 % | | | <LOD |
| | 024-001-00-0 | 215-607-8 | 1333-82-0 | | | | | | | | |
| 18 | TPH (C6 to C40) petroleum group | | | | <52 mg/kg | | <52 mg/kg | <0.0052 % | | | <LOD |
| | | | TPH | | | | | | | | |
| 19 | naphthalene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | 601-052-00-2 | 202-049-5 | 91-20-3 | | | | | | | | |
| 20 | acenaphthylene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | | <LOD |
| | | 205-917-1 | 208-96-8 | | | | | | | | |
| 21 | acenaphthene | | | | <0.05 mg/kg | | <0.05 mg/kg | <0.000005 % | | | <LOD |
| | | 201-469-6 | 83-32-9 | | | | | | | | |
| 22 | fluorene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 201-695-5 | 86-73-7 | | | | | | | | |
| 23 | phenanthrene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | | <LOD |
| | | 201-581-5 | 85-01-8 | | | | | | | | |
| 24 | anthracene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 204-371-1 | 120-12-7 | | | | | | | | |
| 25 | fluoranthene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | | <LOD |
| | | 205-912-4 | 206-44-0 | | | | | | | | |
| 26 | pyrene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | | <LOD |
| | | 204-927-3 | 129-00-0 | | | | | | | | |
| 27 | benzo[a]anthracene | | | | <0.06 mg/kg | | <0.06 mg/kg | <0.000006 % | | | <LOD |
| | 601-033-00-9 | 200-280-6 | 56-55-3 | | | | | | | | |
| 28 | chrysene | | | | <0.02 mg/kg | | <0.02 mg/kg | <0.000002 % | | | <LOD |
| | 601-048-00-0 | 205-923-4 | 218-01-9 | | | | | | | | |
| 29 | benzo[b]fluoranthene | | | | <0.05 mg/kg | | <0.05 mg/kg | <0.000005 % | | | <LOD |
| | 601-034-00-4 | 205-911-9 | 205-99-2 | | | | | | | | |
| 30 | benzo[k]fluoranthene | | | | <0.02 mg/kg | | <0.02 mg/kg | <0.000002 % | | | <LOD |
| | 601-036-00-5 | 205-916-6 | 207-08-9 | | | | | | | | |
| 31 | benzo[a]pyrene; benzo[def]chrysene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | 601-032-00-3 | 200-028-5 | 50-32-8 | | | | | | | | |
| 32 | indeno[123-cd]pyrene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 205-893-2 | 193-39-5 | | | | | | | | |
| 33 | dibenz[a,h]anthracene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | 601-041-00-2 | 200-181-8 | 53-70-3 | | | | | | | | |
| 34 | benzo[ghi]perylene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 205-883-8 | 191-24-2 | | | | | | | | |
| Total: | | | | | | | | | 0.0542 % | | |

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 Determinand - 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

Classification of sample: 57629/TP#20-1

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

Sample details

| | |
|-------------------------|---|
| Sample Name: | LoW Code: |
| 57629/TP#20-1 | Chapter: |
| Moisture content: | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| 36.5% | Entry: |
| (dry weight correction) | 17 05 04 (Soil and stones other than those mentioned in 17 05 03) |

Hazard properties

None identified


Determinands

Moisture content: 36.5% Dry Weight Moisture Correction applied (MC)

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|----|--|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|-------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | |
| 1 | pH | | | | 6.33 pH | | 6.33 | pH | 6.33 pH | | |
| 2 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } | | | | <0.5 mg/kg | 1.884 | <0.942 | mg/kg | <0.0000942 % | | <LOD |
| | 006-007-00-5 | | | | | | | | | | |
| 3 | phenol | | | | <0.01 mg/kg | | <0.01 | mg/kg | <0.000001 % | | <LOD |
| | 604-001-00-2 | 203-632-7 | 108-95-2 | | | | | | | | |
| 4 | antimony { antimony trioxide } | | | | 6 mg/kg | 1.197 | 5.262 | mg/kg | 0.000526 % | ✓ | |
| | 051-005-00-X | 215-175-0 | 1309-64-4 | | | | | | | | |
| 5 | arsenic { arsenic trioxide } | | | | 25.1 mg/kg | 1.32 | 24.279 | mg/kg | 0.00243 % | ✓ | |
| | 033-003-00-0 | 215-481-4 | 1327-53-3 | | | | | | | | |
| 6 | barium { barium sulfate } | | | | 268 mg/kg | 1.7 | 333.678 | mg/kg | 0.0334 % | ✓ | |
| | | 231-784-4 | 7727-43-7 | | | | | | | | |
| 7 | cadmium { cadmium sulfide } | | | 1 | 1 mg/kg | 1.285 | 0.942 | mg/kg | 0.0000733 % | ✓ | |
| | 048-010-00-4 | 215-147-8 | 1306-23-6 | | | | | | | | |
| 8 | chromium in chromium(III) compounds { chromium(III) oxide } | | | | 40.7 mg/kg | 1.462 | 43.579 | mg/kg | 0.00436 % | ✓ | |
| | | 215-160-9 | 1308-38-9 | | | | | | | | |
| 9 | copper { dicopper oxide; copper (I) oxide } | | | | 73 mg/kg | 1.126 | 60.212 | mg/kg | 0.00602 % | ✓ | |
| | 029-002-00-X | 215-270-7 | 1317-39-1 | | | | | | | | |
| 10 | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } | | | 1 | 117 mg/kg | | 85.714 | mg/kg | 0.00857 % | ✓ | |
| | 082-001-00-6 | | | | | | | | | | |
| 11 | mercury { mercury dichloride } | | | | <0.1 mg/kg | 1.353 | <0.135 | mg/kg | <0.0000135 % | | <LOD |
| | 080-010-00-X | 231-299-8 | 7487-94-7 | | | | | | | | |
| 12 | nickel { nickel dihydroxide } | | | | 35.6 mg/kg | 1.579 | 41.194 | mg/kg | 0.00412 % | ✓ | |
| | 028-008-00-X | 235-008-5 [1] 234-348-1 [2] | 12054-48-7 [1] 11113-74-9 [2] | | | | | | | | |
| 13 | selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } | | | | 2 mg/kg | 2.554 | 3.742 | mg/kg | 0.000374 % | ✓ | |
| | 034-002-00-8 | | | | | | | | | | |

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|--------|---|--------------------------------|-----------------------------------|----------|-------------------|--------------|----------------|--------------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | |
| 14 | vanadium { divanadium pentaoxide; vanadium pentoxide } | | | | 54 mg/kg | 1.785 | 70.623 mg/kg | 0.00706 % | | ✓ | |
| | 023-001-00-8 | 215-239-8 | 1314-62-1 | | | | | | | | |
| 15 | boron { boron tribromide/trichloride/trifluoride (combined) } | | | | 1.4 mg/kg | 13.43 | 13.774 mg/kg | 0.00138 % | | ✓ | |
| | | | 10294-33-4, 10294-34-5, 7637-07-2 | | | | | | | | |
| 16 | zinc { zinc sulphate } | | | | 158 mg/kg | 2.469 | 285.823 mg/kg | 0.0286 % | | ✓ | |
| | 030-006-00-9 | 231-793-3 [1] 231-793-3 [2] | 7446-19-7 [1] 7733-02-0 [2] | | | | | | | | |
| 17 | chromium in chromium(VI) compounds { chromium(VI) oxide } | | | | <0.3 mg/kg | 1.923 | <0.577 mg/kg | <0.0000577 % | | | <LOD |
| | 024-001-00-0 | 215-607-8 | 1333-82-0 | | | | | | | | |
| 18 | TPH (C6 to C40) petroleum group | | | | <52 mg/kg | | <52 mg/kg | <0.0052 % | | | <LOD |
| | | | TPH | | | | | | | | |
| 19 | naphthalene | | | | 0.07 mg/kg | | 0.0513 mg/kg | 0.00000513 % | | ✓ | |
| | 601-052-00-2 | 202-049-5 | 91-20-3 | | | | | | | | |
| 20 | acenaphthylene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | | <LOD |
| | | 205-917-1 | 208-96-8 | | | | | | | | |
| 21 | acenaphthene | | | | <0.05 mg/kg | | <0.05 mg/kg | <0.000005 % | | | <LOD |
| | | 201-469-6 | 83-32-9 | | | | | | | | |
| 22 | fluorene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 201-695-5 | 86-73-7 | | | | | | | | |
| 23 | phenanthrene | | | | 0.24 mg/kg | | 0.176 mg/kg | 0.0000176 % | | ✓ | |
| | | 201-581-5 | 85-01-8 | | | | | | | | |
| 24 | anthracene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 204-371-1 | 120-12-7 | | | | | | | | |
| 25 | fluoranthene | | | | 0.34 mg/kg | | 0.249 mg/kg | 0.0000249 % | | ✓ | |
| | | 205-912-4 | 206-44-0 | | | | | | | | |
| 26 | pyrene | | | | 0.28 mg/kg | | 0.205 mg/kg | 0.0000205 % | | ✓ | |
| | | 204-927-3 | 129-00-0 | | | | | | | | |
| 27 | benzo[a]anthracene | | | | 0.14 mg/kg | | 0.103 mg/kg | 0.0000103 % | | ✓ | |
| | 601-033-00-9 | 200-280-6 | 56-55-3 | | | | | | | | |
| 28 | chrysene | | | | 0.19 mg/kg | | 0.139 mg/kg | 0.0000139 % | | ✓ | |
| | 601-048-00-0 | 205-923-4 | 218-01-9 | | | | | | | | |
| 29 | benzo[b]fluoranthene | | | | 0.22 mg/kg | | 0.161 mg/kg | 0.0000161 % | | ✓ | |
| | 601-034-00-4 | 205-911-9 | 205-99-2 | | | | | | | | |
| 30 | benzo[k]fluoranthene | | | | 0.09 mg/kg | | 0.0659 mg/kg | 0.00000659 % | | ✓ | |
| | 601-036-00-5 | 205-916-6 | 207-08-9 | | | | | | | | |
| 31 | benzo[a]pyrene; benzo[def]chrysene | | | | 0.11 mg/kg | | 0.0806 mg/kg | 0.00000806 % | | ✓ | |
| | 601-032-00-3 | 200-028-5 | 50-32-8 | | | | | | | | |
| 32 | indeno[123-cd]pyrene | | | | 0.12 mg/kg | | 0.0879 mg/kg | 0.00000879 % | | ✓ | |
| | | 205-893-2 | 193-39-5 | | | | | | | | |
| 33 | dibenz[a,h]anthracene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | 601-041-00-2 | 200-181-8 | 53-70-3 | | | | | | | | |
| 34 | benzo[ghi]perylene | | | | 0.12 mg/kg | | 0.0879 mg/kg | 0.00000879 % | | ✓ | |
| | | 205-883-8 | 191-24-2 | | | | | | | | |
| Total: | | | | | | | | | 0.102 % | | |

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 Determinand - 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

Classification of sample: 57629/TP#20-2

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

Sample details

| | |
|-------------------------|---|
| Sample Name: | LoW Code: |
| 57629/TP#20-2 | Chapter: |
| Moisture content: | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| 22.7% | Entry: |
| (dry weight correction) | 17 05 04 (Soil and stones other than those mentioned in 17 05 03) |

Hazard properties

None identified


Determinands

Moisture content: 22.7% Dry Weight Moisture Correction applied (MC)


| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|----|--|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|-------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | |
| 1 | pH | | | | 7.3 pH | | 7.3 | pH | 7.3 pH | | |
| 2 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } | | | | <0.5 mg/kg | 1.884 | <0.942 | mg/kg | <0.0000942 % | | <LOD |
| | 006-007-00-5 | | | | | | | | | | |
| 3 | phenol | | | | <0.01 mg/kg | | <0.01 | mg/kg | <0.000001 % | | <LOD |
| | 604-001-00-2 | 203-632-7 | 108-95-2 | | | | | | | | |
| 4 | antimony { antimony trioxide } | | | | 3 mg/kg | 1.197 | 2.927 | mg/kg | 0.000293 % | ✓ | |
| | 051-005-00-X | 215-175-0 | 1309-64-4 | | | | | | | | |
| 5 | arsenic { arsenic trioxide } | | | | 10 mg/kg | 1.32 | 10.761 | mg/kg | 0.00108 % | ✓ | |
| | 033-003-00-0 | 215-481-4 | 1327-53-3 | | | | | | | | |
| 6 | barium { barium sulfate } | | | | 163 mg/kg | 1.7 | 225.771 | mg/kg | 0.0226 % | ✓ | |
| | | 231-784-4 | 7727-43-7 | | | | | | | | |
| 7 | cadmium { cadmium sulfide } | | | 1 | 0.1 mg/kg | 1.285 | 0.105 | mg/kg | 0.00000815 % | ✓ | |
| | 048-010-00-4 | 215-147-8 | 1306-23-6 | | | | | | | | |
| 8 | chromium in chromium(III) compounds { chromium(III) oxide } | | | | 37.2 mg/kg | 1.462 | 44.311 | mg/kg | 0.00443 % | ✓ | |
| | | 215-160-9 | 1308-38-9 | | | | | | | | |
| 9 | copper { dicopper oxide; copper (I) oxide } | | | | 20 mg/kg | 1.126 | 18.352 | mg/kg | 0.00184 % | ✓ | |
| | 029-002-00-X | 215-270-7 | 1317-39-1 | | | | | | | | |
| 10 | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } | | | 1 | 30 mg/kg | | 24.45 | mg/kg | 0.00244 % | ✓ | |
| | 082-001-00-6 | | | | | | | | | | |
| 11 | mercury { mercury dichloride } | | | | <0.1 mg/kg | 1.353 | <0.135 | mg/kg | <0.0000135 % | | <LOD |
| | 080-010-00-X | 231-299-8 | 7487-94-7 | | | | | | | | |
| 12 | nickel { nickel dihydroxide } | | | | 22 mg/kg | 1.579 | 28.32 | mg/kg | 0.00283 % | ✓ | |
| | 028-008-00-X | 235-008-5 [1] 234-348-1 [2] | 12054-48-7 [1] 11113-74-9 [2] | | | | | | | | |
| 13 | selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } | | | | 3 mg/kg | 2.554 | 6.244 | mg/kg | 0.000624 % | ✓ | |
| | 034-002-00-8 | | | | | | | | | | |

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|---|--------------------------------|-----------------------------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | |
| 14 | vanadium { divanadium pentaoxide; vanadium pentoxide } | | | | 39 mg/kg | 1.785 | 56.742 mg/kg | 0.00567 % | ✓ | |
| | 023-001-00-8 | 215-239-8 | 1314-62-1 | | | | | | | |
| 15 | boron { boron tribromide/trichloride/trifluoride (combined) } | | | | 0.9 mg/kg | 13.43 | 9.851 mg/kg | 0.000985 % | ✓ | |
| | | | 10294-33-4, 10294-34-5, 7637-07-2 | | | | | | | |
| 16 | zinc { zinc sulphate } | | | | 108 mg/kg | 2.469 | 217.346 mg/kg | 0.0217 % | ✓ | |
| | 030-006-00-9 | 231-793-3 [1] 231-793-3 [2] | 7446-19-7 [1] 7733-02-0 [2] | | | | | | | |
| 17 | chromium in chromium(VI) compounds { chromium(VI) oxide } | | | | <0.3 mg/kg | 1.923 | <0.577 mg/kg | <0.0000577 % | | <LOD |
| | 024-001-00-0 | 215-607-8 | 1333-82-0 | | | | | | | |
| 18 | TPH (C6 to C40) petroleum group | | | | <52 mg/kg | | <52 mg/kg | <0.0052 % | | <LOD |
| | | | TPH | | | | | | | |
| 19 | naphthalene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | <LOD |
| | 601-052-00-2 | 202-049-5 | 91-20-3 | | | | | | | |
| 20 | acenaphthylene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | <LOD |
| | | 205-917-1 | 208-96-8 | | | | | | | |
| 21 | acenaphthene | | | | <0.05 mg/kg | | <0.05 mg/kg | <0.000005 % | | <LOD |
| | | 201-469-6 | 83-32-9 | | | | | | | |
| 22 | fluorene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | <LOD |
| | | 201-695-5 | 86-73-7 | | | | | | | |
| 23 | phenanthrene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | <LOD |
| | | 201-581-5 | 85-01-8 | | | | | | | |
| 24 | anthracene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | <LOD |
| | | 204-371-1 | 120-12-7 | | | | | | | |
| 25 | fluoranthene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | <LOD |
| | | 205-912-4 | 206-44-0 | | | | | | | |
| 26 | pyrene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | <LOD |
| | | 204-927-3 | 129-00-0 | | | | | | | |
| 27 | benzo[a]anthracene | | | | <0.06 mg/kg | | <0.06 mg/kg | <0.000006 % | | <LOD |
| | 601-033-00-9 | 200-280-6 | 56-55-3 | | | | | | | |
| 28 | chrysene | | | | <0.02 mg/kg | | <0.02 mg/kg | <0.000002 % | | <LOD |
| | 601-048-00-0 | 205-923-4 | 218-01-9 | | | | | | | |
| 29 | benzo[b]fluoranthene | | | | <0.05 mg/kg | | <0.05 mg/kg | <0.000005 % | | <LOD |
| | 601-034-00-4 | 205-911-9 | 205-99-2 | | | | | | | |
| 30 | benzo[k]fluoranthene | | | | <0.02 mg/kg | | <0.02 mg/kg | <0.000002 % | | <LOD |
| | 601-036-00-5 | 205-916-6 | 207-08-9 | | | | | | | |
| 31 | benzo[a]pyrene; benzo[def]chrysene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | <LOD |
| | 601-032-00-3 | 200-028-5 | 50-32-8 | | | | | | | |
| 32 | indeno[123-cd]pyrene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | <LOD |
| | | 205-893-2 | 193-39-5 | | | | | | | |
| 33 | dibenz[a,h]anthracene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | <LOD |
| | 601-041-00-2 | 200-181-8 | 53-70-3 | | | | | | | |
| 34 | benzo[ghi]perylene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | <LOD |
| | | 205-883-8 | 191-24-2 | | | | | | | |
| Total: | | | | | | | | 0.0699 % | | |

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 Determinand - 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

Classification of sample: 57629/TP#21-1

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

Sample details

| | |
|-------------------------|---|
| Sample Name: | LoW Code: |
| 57629/TP#21-1 | Chapter: |
| Moisture content: | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| 35.9% | Entry: |
| (dry weight correction) | 17 05 04 (Soil and stones other than those mentioned in 17 05 03) |

Hazard properties

None identified


Determinands

Moisture content: 35.9% Dry Weight Moisture Correction applied (MC)

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|----|--|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|-------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | |
| 1 | pH | | | | 6.19 pH | | 6.19 | pH | 6.19 pH | | |
| 2 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } | | | | <0.5 mg/kg | 1.884 | <0.942 | mg/kg | <0.0000942 % | | <LOD |
| | 006-007-00-5 | | | | | | | | | | |
| 3 | phenol | | | | <0.01 mg/kg | | <0.01 | mg/kg | <0.000001 % | | <LOD |
| | 604-001-00-2 | 203-632-7 | 108-95-2 | | | | | | | | |
| 4 | antimony { antimony trioxide } | | | | 4 mg/kg | 1.197 | 3.523 | mg/kg | 0.000352 % | ✓ | |
| | 051-005-00-X | 215-175-0 | 1309-64-4 | | | | | | | | |
| 5 | arsenic { arsenic trioxide } | | | | 23.8 mg/kg | 1.32 | 23.123 | mg/kg | 0.00231 % | ✓ | |
| | 033-003-00-0 | 215-481-4 | 1327-53-3 | | | | | | | | |
| 6 | barium { barium sulfate } | | | | 243 mg/kg | 1.7 | 303.887 | mg/kg | 0.0304 % | ✓ | |
| | | 231-784-4 | 7727-43-7 | | | | | | | | |
| 7 | cadmium { cadmium sulfide } | | | 1 | 0.7 mg/kg | 1.285 | 0.662 | mg/kg | 0.0000515 % | ✓ | |
| | 048-010-00-4 | 215-147-8 | 1306-23-6 | | | | | | | | |
| 8 | chromium in chromium(III) compounds { chromium(III) oxide } | | | | 47.7 mg/kg | 1.462 | 51.3 | mg/kg | 0.00513 % | ✓ | |
| | | 215-160-9 | 1308-38-9 | | | | | | | | |
| 9 | copper { dicopper oxide; copper (I) oxide } | | | | 86 mg/kg | 1.126 | 71.248 | mg/kg | 0.00712 % | ✓ | |
| | 029-002-00-X | 215-270-7 | 1317-39-1 | | | | | | | | |
| 10 | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } | | | 1 | 100 mg/kg | | 73.584 | mg/kg | 0.00736 % | ✓ | |
| | 082-001-00-6 | | | | | | | | | | |
| 11 | mercury { mercury dichloride } | | | | <0.1 mg/kg | 1.353 | <0.135 | mg/kg | <0.0000135 % | | <LOD |
| | 080-010-00-X | 231-299-8 | 7487-94-7 | | | | | | | | |
| 12 | nickel { nickel dihydroxide } | | | | 31.5 mg/kg | 1.579 | 36.611 | mg/kg | 0.00366 % | ✓ | |
| | 028-008-00-X | 235-008-5 [1] 234-348-1 [2] | 12054-48-7 [1] 11113-74-9 [2] | | | | | | | | |
| 13 | selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } | | | | 2 mg/kg | 2.554 | 3.758 | mg/kg | 0.000376 % | ✓ | |
| | 034-002-00-8 | | | | | | | | | | |

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|--------|---|-----------------------------|-----------------------------------|----------|-------------------|--------------|----------------|--------------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | |
| 14 | vanadium { divanadium pentaoxide; vanadium pentoxide } | | | | 56 mg/kg | 1.785 | 73.562 mg/kg | 0.00736 % | | ✓ | |
| | 023-001-00-8 | 215-239-8 | 1314-62-1 | | | | | | | | |
| 15 | boron { boron tribromide/trichloride/trifluoride (combined) } | | | | 1.5 mg/kg | 13.43 | 14.823 mg/kg | 0.00148 % | | ✓ | |
| | | | 10294-33-4, 10294-34-5, 7637-07-2 | | | | | | | | |
| 16 | zinc { zinc sulphate } | | | | 134 mg/kg | 2.469 | 243.477 mg/kg | 0.0243 % | | ✓ | |
| | 030-006-00-9 | 231-793-3 [1] 231-793-3 [2] | 7446-19-7 [1] 7733-02-0 [2] | | | | | | | | |
| 17 | chromium in chromium(VI) compounds { chromium(VI) oxide } | | | | <0.3 mg/kg | 1.923 | <0.577 mg/kg | <0.0000577 % | | | <LOD |
| | 024-001-00-0 | 215-607-8 | 1333-82-0 | | | | | | | | |
| 18 | TPH (C6 to C40) petroleum group | | | | <52 mg/kg | | <52 mg/kg | <0.0052 % | | | <LOD |
| | | | TPH | | | | | | | | |
| 19 | naphthalene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | 601-052-00-2 | 202-049-5 | 91-20-3 | | | | | | | | |
| 20 | acenaphthylene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | | <LOD |
| | | 205-917-1 | 208-96-8 | | | | | | | | |
| 21 | acenaphthene | | | | <0.05 mg/kg | | <0.05 mg/kg | <0.000005 % | | | <LOD |
| | | 201-469-6 | 83-32-9 | | | | | | | | |
| 22 | fluorene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 201-695-5 | 86-73-7 | | | | | | | | |
| 23 | phenanthrene | | | | 0.23 mg/kg | | 0.169 mg/kg | 0.0000169 % | | ✓ | |
| | | 201-581-5 | 85-01-8 | | | | | | | | |
| 24 | anthracene | | | | 0.05 mg/kg | | 0.0368 mg/kg | 0.00000368 % | | ✓ | |
| | | 204-371-1 | 120-12-7 | | | | | | | | |
| 25 | fluoranthene | | | | 0.38 mg/kg | | 0.28 mg/kg | 0.000028 % | | ✓ | |
| | | 205-912-4 | 206-44-0 | | | | | | | | |
| 26 | pyrene | | | | 0.33 mg/kg | | 0.243 mg/kg | 0.0000243 % | | ✓ | |
| | | 204-927-3 | 129-00-0 | | | | | | | | |
| 27 | benzo[a]anthracene | | | | 0.29 mg/kg | | 0.213 mg/kg | 0.0000213 % | | ✓ | |
| | 601-033-00-9 | 200-280-6 | 56-55-3 | | | | | | | | |
| 28 | chrysene | | | | 0.17 mg/kg | | 0.125 mg/kg | 0.0000125 % | | ✓ | |
| | 601-048-00-0 | 205-923-4 | 218-01-9 | | | | | | | | |
| 29 | benzo[b]fluoranthene | | | | 0.3 mg/kg | | 0.221 mg/kg | 0.0000221 % | | ✓ | |
| | 601-034-00-4 | 205-911-9 | 205-99-2 | | | | | | | | |
| 30 | benzo[k]fluoranthene | | | | 0.11 mg/kg | | 0.0809 mg/kg | 0.00000809 % | | ✓ | |
| | 601-036-00-5 | 205-916-6 | 207-08-9 | | | | | | | | |
| 31 | benzo[a]pyrene; benzo[def]chrysene | | | | 0.19 mg/kg | | 0.14 mg/kg | 0.000014 % | | ✓ | |
| | 601-032-00-3 | 200-028-5 | 50-32-8 | | | | | | | | |
| 32 | indeno[123-cd]pyrene | | | | 0.17 mg/kg | | 0.125 mg/kg | 0.0000125 % | | ✓ | |
| | | 205-893-2 | 193-39-5 | | | | | | | | |
| 33 | dibenz[a,h]anthracene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | 601-041-00-2 | 200-181-8 | 53-70-3 | | | | | | | | |
| 34 | benzo[ghi]perylene | | | | 0.17 mg/kg | | 0.125 mg/kg | 0.0000125 % | | ✓ | |
| | | 205-883-8 | 191-24-2 | | | | | | | | |
| Total: | | | | | | | | | 0.0955 % | | |

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 Determinand - 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

Classification of sample: 57629/TP#21-2

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

Sample details

| | |
|-------------------------|---|
| Sample Name: | LoW Code: |
| 57629/TP#21-2 | Chapter: |
| Moisture content: | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| 23.1% | Entry: |
| (dry weight correction) | 17 05 04 (Soil and stones other than those mentioned in 17 05 03) |

Hazard properties

None identified


Determinands

Moisture content: 23.1% Dry Weight Moisture Correction applied (MC)


| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|----|--|---------------|----------------|----------|-------------------|--------------|----------------|-------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | |
| 1 | pH | | | | 7.2 pH | | 7.2 | pH | 7.2 pH | | |
| 2 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } | | | | <0.5 mg/kg | 1.884 | <0.942 | mg/kg | <0.0000942 % | | <LOD |
| | 006-007-00-5 | | | | | | | | | | |
| 3 | phenol | | | | <0.01 mg/kg | | <0.01 | mg/kg | <0.000001 % | | <LOD |
| | 604-001-00-2 | 203-632-7 | 108-95-2 | | | | | | | | |
| 4 | antimony { antimony trioxide } | | | | 3 mg/kg | 1.197 | 2.917 | mg/kg | 0.000292 % | ✓ | |
| | 051-005-00-X | 215-175-0 | 1309-64-4 | | | | | | | | |
| 5 | arsenic { arsenic trioxide } | | | | 8.7 mg/kg | 1.32 | 9.331 | mg/kg | 0.000933 % | ✓ | |
| | 033-003-00-0 | 215-481-4 | 1327-53-3 | | | | | | | | |
| 6 | barium { barium sulfate } | | | | 98 mg/kg | 1.7 | 135.299 | mg/kg | 0.0135 % | ✓ | |
| | | 231-784-4 | 7727-43-7 | | | | | | | | |
| 7 | cadmium { cadmium sulfide } | | | 1 | 0.2 mg/kg | 1.285 | 0.209 | mg/kg | 0.0000162 % | ✓ | |
| | 048-010-00-4 | 215-147-8 | 1306-23-6 | | | | | | | | |
| 8 | chromium in chromium(III) compounds { chromium(III) oxide } | | | | 32.7 mg/kg | 1.462 | 38.824 | mg/kg | 0.00388 % | ✓ | |
| | | 215-160-9 | 1308-38-9 | | | | | | | | |
| 9 | copper { dicopper oxide; copper (I) oxide } | | | | 26 mg/kg | 1.126 | 23.78 | mg/kg | 0.00238 % | ✓ | |
| | 029-002-00-X | 215-270-7 | 1317-39-1 | | | | | | | | |
| 10 | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } | | | 1 | 32 mg/kg | | 25.995 | mg/kg | 0.0026 % | ✓ | |
| | 082-001-00-6 | | | | | | | | | | |
| 11 | mercury { mercury dichloride } | | | | <0.1 mg/kg | 1.353 | <0.135 | mg/kg | <0.0000135 % | | <LOD |
| | 080-010-00-X | 231-299-8 | 7487-94-7 | | | | | | | | |
| 12 | nickel { nickel dihydroxide } | | | | 21.1 mg/kg | 1.579 | 27.073 | mg/kg | 0.00271 % | ✓ | |
| | 028-008-00-X | 235-008-5 [1] | 12054-48-7 [1] | | | | | | | | |
| | | 234-348-1 [2] | 11113-74-9 [2] | | | | | | | | |
| 13 | selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } | | | | 2 mg/kg | 2.554 | 4.149 | mg/kg | 0.000415 % | ✓ | |
| | 034-002-00-8 | | | | | | | | | | |

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|--------|---|-----------------------------|-----------------------------------|----------|-------------------|--------------|----------------|--------------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | |
| 14 | vanadium { divanadium pentaoxide; vanadium pentoxide } | | | | 32 mg/kg | 1.785 | 46.406 mg/kg | 0.00464 % | | ✓ | |
| | 023-001-00-8 | 215-239-8 | 1314-62-1 | | | | | | | | |
| 15 | boron { boron tribromide/trichloride/trifluoride (combined) } | | | | 0.8 mg/kg | 13.43 | 8.728 mg/kg | 0.000873 % | | ✓ | |
| | | | 10294-33-4, 10294-34-5, 7637-07-2 | | | | | | | | |
| 16 | zinc { zinc sulphate } | | | | 101 mg/kg | 2.469 | 202.599 mg/kg | 0.0203 % | | ✓ | |
| | 030-006-00-9 | 231-793-3 [1] 231-793-3 [2] | 7446-19-7 [1] 7733-02-0 [2] | | | | | | | | |
| 17 | chromium in chromium(VI) compounds { chromium(VI) oxide } | | | | <0.3 mg/kg | 1.923 | <0.577 mg/kg | <0.0000577 % | | | <LOD |
| | 024-001-00-0 | 215-607-8 | 1333-82-0 | | | | | | | | |
| 18 | TPH (C6 to C40) petroleum group | | | | <52 mg/kg | | <52 mg/kg | <0.0052 % | | | <LOD |
| | | | TPH | | | | | | | | |
| 19 | naphthalene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | 601-052-00-2 | 202-049-5 | 91-20-3 | | | | | | | | |
| 20 | acenaphthylene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | | <LOD |
| | | 205-917-1 | 208-96-8 | | | | | | | | |
| 21 | acenaphthene | | | | <0.05 mg/kg | | <0.05 mg/kg | <0.000005 % | | | <LOD |
| | | 201-469-6 | 83-32-9 | | | | | | | | |
| 22 | fluorene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 201-695-5 | 86-73-7 | | | | | | | | |
| 23 | phenanthrene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | | <LOD |
| | | 201-581-5 | 85-01-8 | | | | | | | | |
| 24 | anthracene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 204-371-1 | 120-12-7 | | | | | | | | |
| 25 | fluoranthene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | | <LOD |
| | | 205-912-4 | 206-44-0 | | | | | | | | |
| 26 | pyrene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | | <LOD |
| | | 204-927-3 | 129-00-0 | | | | | | | | |
| 27 | benzo[a]anthracene | | | | <0.06 mg/kg | | <0.06 mg/kg | <0.000006 % | | | <LOD |
| | 601-033-00-9 | 200-280-6 | 56-55-3 | | | | | | | | |
| 28 | chrysene | | | | <0.02 mg/kg | | <0.02 mg/kg | <0.000002 % | | | <LOD |
| | 601-048-00-0 | 205-923-4 | 218-01-9 | | | | | | | | |
| 29 | benzo[b]fluoranthene | | | | <0.05 mg/kg | | <0.05 mg/kg | <0.000005 % | | | <LOD |
| | 601-034-00-4 | 205-911-9 | 205-99-2 | | | | | | | | |
| 30 | benzo[k]fluoranthene | | | | <0.02 mg/kg | | <0.02 mg/kg | <0.000002 % | | | <LOD |
| | 601-036-00-5 | 205-916-6 | 207-08-9 | | | | | | | | |
| 31 | benzo[a]pyrene; benzo[def]chrysene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | 601-032-00-3 | 200-028-5 | 50-32-8 | | | | | | | | |
| 32 | indeno[123-cd]pyrene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 205-893-2 | 193-39-5 | | | | | | | | |
| 33 | dibenz[a,h]anthracene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | 601-041-00-2 | 200-181-8 | 53-70-3 | | | | | | | | |
| 34 | benzo[ghi]perylene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 205-883-8 | 191-24-2 | | | | | | | | |
| Total: | | | | | | | | | 0.058 % | | |

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 Determinand - 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

Classification of sample: 57629/TP#22-1

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

Sample details

| | |
|-------------------------|---|
| Sample Name: | LoW Code: |
| 57629/TP#22-1 | Chapter: |
| Moisture content: | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| 36.7% | Entry: |
| (dry weight correction) | 17 05 04 (Soil and stones other than those mentioned in 17 05 03) |

Hazard properties

None identified


Determinands

Moisture content: 36.7% Dry Weight Moisture Correction applied (MC)

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|----|--|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|-------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | |
| 1 | pH | | | | 7.39 pH | | 7.39 | pH | 7.39 pH | | |
| 2 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } | | | | <0.5 mg/kg | 1.884 | <0.942 | mg/kg | <0.0000942 % | | <LOD |
| | 006-007-00-5 | | | | | | | | | | |
| 3 | phenol | | | | <0.01 mg/kg | | <0.01 | mg/kg | <0.000001 % | | <LOD |
| | 604-001-00-2 | 203-632-7 | 108-95-2 | | | | | | | | |
| 4 | antimony { antimony trioxide } | | | | 9 mg/kg | 1.197 | 7.881 | mg/kg | 0.000788 % | ✓ | |
| | 051-005-00-X | 215-175-0 | 1309-64-4 | | | | | | | | |
| 5 | arsenic { arsenic trioxide } | | | | 10.2 mg/kg | 1.32 | 9.852 | mg/kg | 0.000985 % | ✓ | |
| | 033-003-00-0 | 215-481-4 | 1327-53-3 | | | | | | | | |
| 6 | barium { barium sulfate } | | | | 220 mg/kg | 1.7 | 273.514 | mg/kg | 0.0274 % | ✓ | |
| | | 231-784-4 | 7727-43-7 | | | | | | | | |
| 7 | cadmium { cadmium sulfide } | | | 1 | 1 mg/kg | 1.285 | 0.94 | mg/kg | 0.0000732 % | ✓ | |
| | 048-010-00-4 | 215-147-8 | 1306-23-6 | | | | | | | | |
| 8 | chromium in chromium(III) compounds { chromium(III) oxide } | | | | 44 mg/kg | 1.462 | 47.043 | mg/kg | 0.0047 % | ✓ | |
| | | 215-160-9 | 1308-38-9 | | | | | | | | |
| 9 | copper { dicopper oxide; copper (I) oxide } | | | | 45 mg/kg | 1.126 | 37.063 | mg/kg | 0.00371 % | ✓ | |
| | 029-002-00-X | 215-270-7 | 1317-39-1 | | | | | | | | |
| 10 | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } | | | 1 | 127 mg/kg | | 92.904 | mg/kg | 0.00929 % | ✓ | |
| | 082-001-00-6 | | | | | | | | | | |
| 11 | mercury { mercury dichloride } | | | | <0.1 mg/kg | 1.353 | <0.135 | mg/kg | <0.0000135 % | | <LOD |
| | 080-010-00-X | 231-299-8 | 7487-94-7 | | | | | | | | |
| 12 | nickel { nickel dihydroxide } | | | | 28.7 mg/kg | 1.579 | 33.161 | mg/kg | 0.00332 % | ✓ | |
| | 028-008-00-X | 235-008-5 [1] 234-348-1 [2] | 12054-48-7 [1] 11113-74-9 [2] | | | | | | | | |
| 13 | selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } | | | | 3 mg/kg | 2.554 | 5.604 | mg/kg | 0.00056 % | ✓ | |
| | 034-002-00-8 | | | | | | | | | | |

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|--------|---|---------------|-----------------------------------|----------|-------------------|--------------|----------------|--------------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | |
| 14 | vanadium { divanadium pentaoxide; vanadium pentoxide } | | | | 49 mg/kg | 1.785 | 63.99 mg/kg | 0.0064 % | | ✓ | |
| | 023-001-00-8 | 215-239-8 | 1314-62-1 | | | | | | | | |
| 15 | boron { boron tribromide/trichloride/trifluoride (combined) } | | | | 2.6 mg/kg | 13.43 | 25.544 mg/kg | 0.00255 % | | ✓ | |
| | | | 10294-33-4, 10294-34-5, 7637-07-2 | | | | | | | | |
| 16 | zinc { zinc sulphate } | | | | 170 mg/kg | 2.469 | 307.081 mg/kg | 0.0307 % | | ✓ | |
| | 030-006-00-9 | 231-793-3 [1] | 7446-19-7 [1] | | | | | | | | |
| | | 231-793-3 [2] | 7733-02-0 [2] | | | | | | | | |
| 17 | chromium in chromium(VI) compounds { chromium(VI) oxide } | | | | <0.3 mg/kg | 1.923 | <0.577 mg/kg | <0.0000577 % | | | <LOD |
| | 024-001-00-0 | 215-607-8 | 1333-82-0 | | | | | | | | |
| 18 | TPH (C6 to C40) petroleum group | | | | <52 mg/kg | | <52 mg/kg | <0.0052 % | | | <LOD |
| | | | TPH | | | | | | | | |
| 19 | naphthalene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | 601-052-00-2 | 202-049-5 | 91-20-3 | | | | | | | | |
| 20 | acenaphthylene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | | <LOD |
| | | 205-917-1 | 208-96-8 | | | | | | | | |
| 21 | acenaphthene | | | | <0.05 mg/kg | | <0.05 mg/kg | <0.000005 % | | | <LOD |
| | | 201-469-6 | 83-32-9 | | | | | | | | |
| 22 | fluorene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 201-695-5 | 86-73-7 | | | | | | | | |
| 23 | phenanthrene | | | | 0.08 mg/kg | | 0.0585 mg/kg | 0.00000585 % | | ✓ | |
| | | 201-581-5 | 85-01-8 | | | | | | | | |
| 24 | anthracene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 204-371-1 | 120-12-7 | | | | | | | | |
| 25 | fluoranthene | | | | 0.18 mg/kg | | 0.132 mg/kg | 0.0000132 % | | ✓ | |
| | | 205-912-4 | 206-44-0 | | | | | | | | |
| 26 | pyrene | | | | 0.15 mg/kg | | 0.11 mg/kg | 0.000011 % | | ✓ | |
| | | 204-927-3 | 129-00-0 | | | | | | | | |
| 27 | benzo[a]anthracene | | | | 0.08 mg/kg | | 0.0585 mg/kg | 0.00000585 % | | ✓ | |
| | 601-033-00-9 | 200-280-6 | 56-55-3 | | | | | | | | |
| 28 | chrysene | | | | 0.12 mg/kg | | 0.0878 mg/kg | 0.00000878 % | | ✓ | |
| | 601-048-00-0 | 205-923-4 | 218-01-9 | | | | | | | | |
| 29 | benzo[b]fluoranthene | | | | 0.14 mg/kg | | 0.102 mg/kg | 0.0000102 % | | ✓ | |
| | 601-034-00-4 | 205-911-9 | 205-99-2 | | | | | | | | |
| 30 | benzo[k]fluoranthene | | | | 0.05 mg/kg | | 0.0366 mg/kg | 0.00000366 % | | ✓ | |
| | 601-036-00-5 | 205-916-6 | 207-08-9 | | | | | | | | |
| 31 | benzo[a]pyrene; benzo[def]chrysene | | | | 0.08 mg/kg | | 0.0585 mg/kg | 0.00000585 % | | ✓ | |
| | 601-032-00-3 | 200-028-5 | 50-32-8 | | | | | | | | |
| 32 | indeno[123-cd]pyrene | | | | 0.08 mg/kg | | 0.0585 mg/kg | 0.00000585 % | | ✓ | |
| | | 205-893-2 | 193-39-5 | | | | | | | | |
| 33 | dibenz[a,h]anthracene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | 601-041-00-2 | 200-181-8 | 53-70-3 | | | | | | | | |
| 34 | benzo[ghi]perylene | | | | 0.08 mg/kg | | 0.0585 mg/kg | 0.00000585 % | | ✓ | |
| | | 205-883-8 | 191-24-2 | | | | | | | | |
| Total: | | | | | | | | | 0.0959 % | | |

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 Determinand - 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

Classification of sample: 57629/TP#22-2

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

Sample details

| | |
|-------------------------|---|
| Sample Name: | LoW Code: |
| 57629/TP#22-2 | Chapter: |
| Moisture content: | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| 30.9% | Entry: |
| (dry weight correction) | 17 05 04 (Soil and stones other than those mentioned in 17 05 03) |

Hazard properties

None identified


Determinands

Moisture content: 30.9% Dry Weight Moisture Correction applied (MC)

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|----|--|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|-------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | |
| 1 | pH | | | | 7.33 pH | | 7.33 | pH | 7.33 pH | | |
| 2 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } | | | | <0.5 mg/kg | 1.884 | <0.942 | mg/kg | <0.0000942 % | | <LOD |
| | 006-007-00-5 | | | | | | | | | | |
| 3 | phenol | | | | <0.01 mg/kg | | <0.01 | mg/kg | <0.000001 % | | <LOD |
| | 604-001-00-2 | 203-632-7 | 108-95-2 | | | | | | | | |
| 4 | antimony { antimony trioxide } | | | | 3 mg/kg | 1.197 | 2.744 | mg/kg | 0.000274 % | ✓ | |
| | 051-005-00-X | 215-175-0 | 1309-64-4 | | | | | | | | |
| 5 | arsenic { arsenic trioxide } | | | | 2 mg/kg | 1.32 | 2.017 | mg/kg | 0.000202 % | ✓ | |
| | 033-003-00-0 | 215-481-4 | 1327-53-3 | | | | | | | | |
| 6 | barium { barium sulfate } | | | | 161 mg/kg | 1.7 | 209.032 | mg/kg | 0.0209 % | ✓ | |
| | | 231-784-4 | 7727-43-7 | | | | | | | | |
| 7 | cadmium { cadmium sulfide } | | | 1 | <0.1 mg/kg | 1.285 | <0.129 | mg/kg | <0.00001 % | | <LOD |
| | 048-010-00-4 | 215-147-8 | 1306-23-6 | | | | | | | | |
| 8 | chromium in chromium(III) compounds { chromium(III) oxide } | | | | 37.2 mg/kg | 1.462 | 41.535 | mg/kg | 0.00415 % | ✓ | |
| | | 215-160-9 | 1308-38-9 | | | | | | | | |
| 9 | copper { dicopper oxide; copper (I) oxide } | | | | 25 mg/kg | 1.126 | 21.503 | mg/kg | 0.00215 % | ✓ | |
| | 029-002-00-X | 215-270-7 | 1317-39-1 | | | | | | | | |
| 10 | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } | | | 1 | 30 mg/kg | | 22.918 | mg/kg | 0.00229 % | ✓ | |
| | 082-001-00-6 | | | | | | | | | | |
| 11 | mercury { mercury dichloride } | | | | <0.1 mg/kg | 1.353 | <0.135 | mg/kg | <0.0000135 % | | <LOD |
| | 080-010-00-X | 231-299-8 | 7487-94-7 | | | | | | | | |
| 12 | nickel { nickel dihydroxide } | | | | 27.5 mg/kg | 1.579 | 33.183 | mg/kg | 0.00332 % | ✓ | |
| | 028-008-00-X | 235-008-5 [1] 234-348-1 [2] | 12054-48-7 [1] 11113-74-9 [2] | | | | | | | | |
| 13 | selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } | | | | 2 mg/kg | 2.554 | 3.902 | mg/kg | 0.00039 % | ✓ | |
| | 034-002-00-8 | | | | | | | | | | |

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|--------|---|--------------------------------|-----------------------------------|----------|-------------------|--------------|----------------|--------------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | |
| 14 | vanadium { divanadium pentaoxide; vanadium pentoxide } | | | | 38 mg/kg | 1.785 | 51.824 mg/kg | 0.00518 % | | ✓ | |
| | 023-001-00-8 | 215-239-8 | 1314-62-1 | | | | | | | | |
| 15 | boron { boron tribromide/trichloride/trifluoride (combined) } | | | | 1.4 mg/kg | 13.43 | 14.364 mg/kg | 0.00144 % | | ✓ | |
| | | | 10294-33-4, 10294-34-5, 7637-07-2 | | | | | | | | |
| 16 | zinc { zinc sulphate } | | | | 92 mg/kg | 2.469 | 173.549 mg/kg | 0.0174 % | | ✓ | |
| | 030-006-00-9 | 231-793-3 [1] 231-793-3 [2] | 7446-19-7 [1] 7733-02-0 [2] | | | | | | | | |
| 17 | chromium in chromium(VI) compounds { chromium(VI) oxide } | | | | <0.3 mg/kg | 1.923 | <0.577 mg/kg | <0.0000577 % | | | <LOD |
| | 024-001-00-0 | 215-607-8 | 1333-82-0 | | | | | | | | |
| 18 | TPH (C6 to C40) petroleum group | | | | <52 mg/kg | | <52 mg/kg | <0.0052 % | | | <LOD |
| | | | TPH | | | | | | | | |
| 19 | naphthalene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | 601-052-00-2 | 202-049-5 | 91-20-3 | | | | | | | | |
| 20 | acenaphthylene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | | <LOD |
| | | 205-917-1 | 208-96-8 | | | | | | | | |
| 21 | acenaphthene | | | | <0.05 mg/kg | | <0.05 mg/kg | <0.000005 % | | | <LOD |
| | | 201-469-6 | 83-32-9 | | | | | | | | |
| 22 | fluorene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 201-695-5 | 86-73-7 | | | | | | | | |
| 23 | phenanthrene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | | <LOD |
| | | 201-581-5 | 85-01-8 | | | | | | | | |
| 24 | anthracene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 204-371-1 | 120-12-7 | | | | | | | | |
| 25 | fluoranthene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | | <LOD |
| | | 205-912-4 | 206-44-0 | | | | | | | | |
| 26 | pyrene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | | <LOD |
| | | 204-927-3 | 129-00-0 | | | | | | | | |
| 27 | benzo[a]anthracene | | | | <0.06 mg/kg | | <0.06 mg/kg | <0.000006 % | | | <LOD |
| | 601-033-00-9 | 200-280-6 | 56-55-3 | | | | | | | | |
| 28 | chrysene | | | | <0.02 mg/kg | | <0.02 mg/kg | <0.000002 % | | | <LOD |
| | 601-048-00-0 | 205-923-4 | 218-01-9 | | | | | | | | |
| 29 | benzo[b]fluoranthene | | | | <0.05 mg/kg | | <0.05 mg/kg | <0.000005 % | | | <LOD |
| | 601-034-00-4 | 205-911-9 | 205-99-2 | | | | | | | | |
| 30 | benzo[k]fluoranthene | | | | <0.02 mg/kg | | <0.02 mg/kg | <0.000002 % | | | <LOD |
| | 601-036-00-5 | 205-916-6 | 207-08-9 | | | | | | | | |
| 31 | benzo[a]pyrene; benzo[def]chrysene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | 601-032-00-3 | 200-028-5 | 50-32-8 | | | | | | | | |
| 32 | indeno[123-cd]pyrene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 205-893-2 | 193-39-5 | | | | | | | | |
| 33 | dibenz[a,h]anthracene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | 601-041-00-2 | 200-181-8 | 53-70-3 | | | | | | | | |
| 34 | benzo[ghi]perylene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 205-883-8 | 191-24-2 | | | | | | | | |
| Total: | | | | | | | | | 0.0631 % | | |

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 Determinand - 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

Classification of sample: 57629/TP#23-1

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

Sample details

| | |
|-------------------------|---|
| Sample Name: | LoW Code: |
| 57629/TP#23-1 | Chapter: |
| Moisture content: | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| 33.1% | Entry: |
| (dry weight correction) | 17 05 04 (Soil and stones other than those mentioned in 17 05 03) |

Hazard properties

None identified


Determinands

Moisture content: 33.1% Dry Weight Moisture Correction applied (MC)


| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|----|--|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|-------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | |
| 1 | pH | | | | 6.46 pH | | 6.46 | pH | 6.46 pH | | |
| 2 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } | | | | <0.5 mg/kg | 1.884 | <0.942 | mg/kg | <0.0000942 % | | <LOD |
| | 006-007-00-5 | | | | | | | | | | |
| 3 | phenol | | | | <0.01 mg/kg | | <0.01 | mg/kg | <0.000001 % | | <LOD |
| | 604-001-00-2 | 203-632-7 | 108-95-2 | | | | | | | | |
| 4 | antimony { antimony trioxide } | | | | 4 mg/kg | 1.197 | 3.598 | mg/kg | 0.00036 % | ✓ | |
| | 051-005-00-X | 215-175-0 | 1309-64-4 | | | | | | | | |
| 5 | arsenic { arsenic trioxide } | | | | 11.2 mg/kg | 1.32 | 11.11 | mg/kg | 0.00111 % | ✓ | |
| | 033-003-00-0 | 215-481-4 | 1327-53-3 | | | | | | | | |
| 6 | barium { barium sulfate } | | | | 227 mg/kg | 1.7 | 289.85 | mg/kg | 0.029 % | ✓ | |
| | | 231-784-4 | 7727-43-7 | | | | | | | | |
| 7 | cadmium { cadmium sulfide } | | | 1 | 0.5 mg/kg | 1.285 | 0.483 | mg/kg | 0.0000376 % | ✓ | |
| | 048-010-00-4 | 215-147-8 | 1306-23-6 | | | | | | | | |
| 8 | chromium in chromium(III) compounds { chromium(III) oxide } | | | | 40.6 mg/kg | 1.462 | 44.582 | mg/kg | 0.00446 % | ✓ | |
| | | 215-160-9 | 1308-38-9 | | | | | | | | |
| 9 | copper { dicopper oxide; copper (I) oxide } | | | | 36 mg/kg | 1.126 | 30.452 | mg/kg | 0.00305 % | ✓ | |
| | 029-002-00-X | 215-270-7 | 1317-39-1 | | | | | | | | |
| 10 | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } | | | 1 | 92 mg/kg | | 69.121 | mg/kg | 0.00691 % | ✓ | |
| | 082-001-00-6 | | | | | | | | | | |
| 11 | mercury { mercury dichloride } | | | | <0.1 mg/kg | 1.353 | <0.135 | mg/kg | <0.0000135 % | | <LOD |
| | 080-010-00-X | 231-299-8 | 7487-94-7 | | | | | | | | |
| 12 | nickel { nickel dihydroxide } | | | | 27.1 mg/kg | 1.579 | 32.16 | mg/kg | 0.00322 % | ✓ | |
| | 028-008-00-X | 235-008-5 [1] 234-348-1 [2] | 12054-48-7 [1] 11113-74-9 [2] | | | | | | | | |
| 13 | selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } | | | | 1 mg/kg | 2.554 | 1.919 | mg/kg | 0.000192 % | ✓ | |
| | 034-002-00-8 | | | | | | | | | | |

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|--------|---|--------------------------------|-----------------------------------|----------|-------------------|--------------|----------------|--------------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | |
| 14 | vanadium { divanadium pentaoxide; vanadium pentoxide } | | | | 46 mg/kg | 1.785 | 61.697 mg/kg | 0.00617 % | | ✓ | |
| | 023-001-00-8 | 215-239-8 | 1314-62-1 | | | | | | | | |
| 15 | boron { boron tribromide/trichloride/trifluoride (combined) } | | | | 2.3 mg/kg | 13.43 | 23.207 mg/kg | 0.00232 % | | ✓ | |
| | | | 10294-33-4, 10294-34-5, 7637-07-2 | | | | | | | | |
| 16 | zinc { zinc sulphate } | | | | 141 mg/kg | 2.469 | 261.586 mg/kg | 0.0262 % | | ✓ | |
| | 030-006-00-9 | 231-793-3 [1] 231-793-3 [2] | 7446-19-7 [1] 7733-02-0 [2] | | | | | | | | |
| 17 | chromium in chromium(VI) compounds { chromium(VI) oxide } | | | | <0.3 mg/kg | 1.923 | <0.577 mg/kg | <0.0000577 % | | | <LOD |
| | 024-001-00-0 | 215-607-8 | 1333-82-0 | | | | | | | | |
| 18 | TPH (C6 to C40) petroleum group | | | | <52 mg/kg | | <52 mg/kg | <0.0052 % | | | <LOD |
| | | | TPH | | | | | | | | |
| 19 | naphthalene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | 601-052-00-2 | 202-049-5 | 91-20-3 | | | | | | | | |
| 20 | acenaphthylene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | | <LOD |
| | | 205-917-1 | 208-96-8 | | | | | | | | |
| 21 | acenaphthene | | | | <0.05 mg/kg | | <0.05 mg/kg | <0.000005 % | | | <LOD |
| | | 201-469-6 | 83-32-9 | | | | | | | | |
| 22 | fluorene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 201-695-5 | 86-73-7 | | | | | | | | |
| 23 | phenanthrene | | | | 0.19 mg/kg | | 0.143 mg/kg | 0.0000143 % | | ✓ | |
| | | 201-581-5 | 85-01-8 | | | | | | | | |
| 24 | anthracene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 204-371-1 | 120-12-7 | | | | | | | | |
| 25 | fluoranthene | | | | 0.43 mg/kg | | 0.323 mg/kg | 0.0000323 % | | ✓ | |
| | | 205-912-4 | 206-44-0 | | | | | | | | |
| 26 | pyrene | | | | 0.37 mg/kg | | 0.278 mg/kg | 0.0000278 % | | ✓ | |
| | | 204-927-3 | 129-00-0 | | | | | | | | |
| 27 | benzo[a]anthracene | | | | 0.25 mg/kg | | 0.188 mg/kg | 0.0000188 % | | ✓ | |
| | 601-033-00-9 | 200-280-6 | 56-55-3 | | | | | | | | |
| 28 | chrysene | | | | 0.22 mg/kg | | 0.165 mg/kg | 0.0000165 % | | ✓ | |
| | 601-048-00-0 | 205-923-4 | 218-01-9 | | | | | | | | |
| 29 | benzo[b]fluoranthene | | | | 0.27 mg/kg | | 0.203 mg/kg | 0.0000203 % | | ✓ | |
| | 601-034-00-4 | 205-911-9 | 205-99-2 | | | | | | | | |
| 30 | benzo[k]fluoranthene | | | | 0.11 mg/kg | | 0.0826 mg/kg | 0.00000826 % | | ✓ | |
| | 601-036-00-5 | 205-916-6 | 207-08-9 | | | | | | | | |
| 31 | benzo[a]pyrene; benzo[def]chrysene | | | | 0.18 mg/kg | | 0.135 mg/kg | 0.0000135 % | | ✓ | |
| | 601-032-00-3 | 200-028-5 | 50-32-8 | | | | | | | | |
| 32 | indeno[123-cd]pyrene | | | | 0.15 mg/kg | | 0.113 mg/kg | 0.0000113 % | | ✓ | |
| | | 205-893-2 | 193-39-5 | | | | | | | | |
| 33 | dibenz[a,h]anthracene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | 601-041-00-2 | 200-181-8 | 53-70-3 | | | | | | | | |
| 34 | benzo[ghi]perylene | | | | 0.13 mg/kg | | 0.0977 mg/kg | 0.00000977 % | | ✓ | |
| | | 205-883-8 | 191-24-2 | | | | | | | | |
| Total: | | | | | | | | | 0.0885 % | | |

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 Determinand - 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

Classification of sample: 57629/TP#23-2

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

Sample details

| | |
|-------------------------|---|
| Sample Name: | LoW Code: |
| 57629/TP#23-2 | Chapter: |
| Moisture content: | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| 22.5% | Entry: |
| (dry weight correction) | 17 05 04 (Soil and stones other than those mentioned in 17 05 03) |

Hazard properties

None identified


Determinands

Moisture content: 22.5% Dry Weight Moisture Correction applied (MC)

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|----|--|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|-------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | |
| 1 | pH | | | | 6.59 pH | | 6.59 | pH | 6.59 pH | | |
| 2 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } | | | | <0.5 mg/kg | 1.884 | <0.942 | mg/kg | <0.0000942 % | | <LOD |
| | 006-007-00-5 | | | | | | | | | | |
| 3 | phenol | | | | <0.01 mg/kg | | <0.01 | mg/kg | <0.000001 % | | <LOD |
| | 604-001-00-2 | 203-632-7 | 108-95-2 | | | | | | | | |
| 4 | antimony { antimony trioxide } | | | | 3 mg/kg | 1.197 | 2.932 | mg/kg | 0.000293 % | ✓ | |
| | 051-005-00-X | 215-175-0 | 1309-64-4 | | | | | | | | |
| 5 | arsenic { arsenic trioxide } | | | | 6.3 mg/kg | 1.32 | 6.79 | mg/kg | 0.000679 % | ✓ | |
| | 033-003-00-0 | 215-481-4 | 1327-53-3 | | | | | | | | |
| 6 | barium { barium sulfate } | | | | 156 mg/kg | 1.7 | 216.428 | mg/kg | 0.0216 % | ✓ | |
| | | 231-784-4 | 7727-43-7 | | | | | | | | |
| 7 | cadmium { cadmium sulfide } | | | 1 | <0.1 mg/kg | 1.285 | <0.129 | mg/kg | <0.00001 % | | <LOD |
| | 048-010-00-4 | 215-147-8 | 1306-23-6 | | | | | | | | |
| 8 | chromium in chromium(III) compounds { chromium(III) oxide } | | | | 36.1 mg/kg | 1.462 | 43.071 | mg/kg | 0.00431 % | ✓ | |
| | | 215-160-9 | 1308-38-9 | | | | | | | | |
| 9 | copper { dicopper oxide; copper (I) oxide } | | | | 12 mg/kg | 1.126 | 11.029 | mg/kg | 0.0011 % | ✓ | |
| | 029-002-00-X | 215-270-7 | 1317-39-1 | | | | | | | | |
| 10 | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } | | | 1 | 20 mg/kg | | 16.327 | mg/kg | 0.00163 % | ✓ | |
| | 082-001-00-6 | | | | | | | | | | |
| 11 | mercury { mercury dichloride } | | | | <0.1 mg/kg | 1.353 | <0.135 | mg/kg | <0.0000135 % | | <LOD |
| | 080-010-00-X | 231-299-8 | 7487-94-7 | | | | | | | | |
| 12 | nickel { nickel dihydroxide } | | | | 20.9 mg/kg | 1.579 | 26.948 | mg/kg | 0.00269 % | ✓ | |
| | 028-008-00-X | 235-008-5 [1] 234-348-1 [2] | 12054-48-7 [1] 11113-74-9 [2] | | | | | | | | |
| 13 | selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } | | | | 2 mg/kg | 2.554 | 4.169 | mg/kg | 0.000417 % | ✓ | |
| | 034-002-00-8 | | | | | | | | | | |

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|--------|---|--------------------------------|-----------------------------------|----------|-------------------|--------------|----------------|--------------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | |
| 14 | vanadium { divanadium pentaoxide; vanadium pentoxide } | | | | 40 mg/kg | 1.785 | 58.292 mg/kg | 0.00583 % | | ✓ | |
| | 023-001-00-8 | 215-239-8 | 1314-62-1 | | | | | | | | |
| 15 | boron { boron tribromide/trichloride/trifluoride (combined) } | | | | 1 mg/kg | 13.43 | 10.963 mg/kg | 0.0011 % | | ✓ | |
| | | | 10294-33-4, 10294-34-5, 7637-07-2 | | | | | | | | |
| 16 | zinc { zinc sulphate } | | | | 88 mg/kg | 2.469 | 177.386 mg/kg | 0.0177 % | | ✓ | |
| | 030-006-00-9 | 231-793-3 [1] 231-793-3 [2] | 7446-19-7 [1] 7733-02-0 [2] | | | | | | | | |
| 17 | chromium in chromium(VI) compounds { chromium(VI) oxide } | | | | <0.3 mg/kg | 1.923 | <0.577 mg/kg | <0.0000577 % | | | <LOD |
| | 024-001-00-0 | 215-607-8 | 1333-82-0 | | | | | | | | |
| 18 | TPH (C6 to C40) petroleum group | | | | <52 mg/kg | | <52 mg/kg | <0.0052 % | | | <LOD |
| | | | TPH | | | | | | | | |
| 19 | naphthalene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | 601-052-00-2 | 202-049-5 | 91-20-3 | | | | | | | | |
| 20 | acenaphthylene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | | <LOD |
| | | 205-917-1 | 208-96-8 | | | | | | | | |
| 21 | acenaphthene | | | | <0.05 mg/kg | | <0.05 mg/kg | <0.000005 % | | | <LOD |
| | | 201-469-6 | 83-32-9 | | | | | | | | |
| 22 | fluorene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 201-695-5 | 86-73-7 | | | | | | | | |
| 23 | phenanthrene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | | <LOD |
| | | 201-581-5 | 85-01-8 | | | | | | | | |
| 24 | anthracene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 204-371-1 | 120-12-7 | | | | | | | | |
| 25 | fluoranthene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | | <LOD |
| | | 205-912-4 | 206-44-0 | | | | | | | | |
| 26 | pyrene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | | <LOD |
| | | 204-927-3 | 129-00-0 | | | | | | | | |
| 27 | benzo[a]anthracene | | | | <0.06 mg/kg | | <0.06 mg/kg | <0.000006 % | | | <LOD |
| | 601-033-00-9 | 200-280-6 | 56-55-3 | | | | | | | | |
| 28 | chrysene | | | | <0.02 mg/kg | | <0.02 mg/kg | <0.000002 % | | | <LOD |
| | 601-048-00-0 | 205-923-4 | 218-01-9 | | | | | | | | |
| 29 | benzo[b]fluoranthene | | | | <0.05 mg/kg | | <0.05 mg/kg | <0.000005 % | | | <LOD |
| | 601-034-00-4 | 205-911-9 | 205-99-2 | | | | | | | | |
| 30 | benzo[k]fluoranthene | | | | <0.02 mg/kg | | <0.02 mg/kg | <0.000002 % | | | <LOD |
| | 601-036-00-5 | 205-916-6 | 207-08-9 | | | | | | | | |
| 31 | benzo[a]pyrene; benzo[def]chrysene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | 601-032-00-3 | 200-028-5 | 50-32-8 | | | | | | | | |
| 32 | indeno[123-cd]pyrene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 205-893-2 | 193-39-5 | | | | | | | | |
| 33 | dibenz[a,h]anthracene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | 601-041-00-2 | 200-181-8 | 53-70-3 | | | | | | | | |
| 34 | benzo[ghi]perylene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 205-883-8 | 191-24-2 | | | | | | | | |
| Total: | | | | | | | | | 0.0629 % | | |

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 Determinand - 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

Classification of sample: 57629/TP#24-1

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

Sample details

| | |
|-------------------------|---|
| Sample Name: | LoW Code: |
| 57629/TP#24-1 | Chapter: |
| Moisture content: | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| 36.7% | Entry: |
| (dry weight correction) | 17 05 04 (Soil and stones other than those mentioned in 17 05 03) |

Hazard properties

None identified


Determinands

Moisture content: 36.7% Dry Weight Moisture Correction applied (MC)

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|----|--|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|-------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | |
| 1 | pH | | | | 6.58 pH | | 6.58 | pH | 6.58 pH | | |
| 2 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } | | | | <0.5 mg/kg | 1.884 | <0.942 | mg/kg | <0.0000942 % | | <LOD |
| | 006-007-00-5 | | | | | | | | | | |
| 3 | phenol | | | | <0.01 mg/kg | | <0.01 | mg/kg | <0.000001 % | | <LOD |
| | 604-001-00-2 | 203-632-7 | 108-95-2 | | | | | | | | |
| 4 | antimony { antimony trioxide } | | | | 4 mg/kg | 1.197 | 3.503 | mg/kg | 0.00035 % | ✓ | |
| | 051-005-00-X | 215-175-0 | 1309-64-4 | | | | | | | | |
| 5 | arsenic { arsenic trioxide } | | | | 15.8 mg/kg | 1.32 | 15.261 | mg/kg | 0.00153 % | ✓ | |
| | 033-003-00-0 | 215-481-4 | 1327-53-3 | | | | | | | | |
| 6 | barium { barium sulfate } | | | | 203 mg/kg | 1.7 | 252.379 | mg/kg | 0.0252 % | ✓ | |
| | | 231-784-4 | 7727-43-7 | | | | | | | | |
| 7 | cadmium { cadmium sulfide } | | | 1 | 0.5 mg/kg | 1.285 | 0.47 | mg/kg | 0.0000366 % | ✓ | |
| | 048-010-00-4 | 215-147-8 | 1306-23-6 | | | | | | | | |
| 8 | chromium in chromium(III) compounds { chromium(III) oxide } | | | | 39.3 mg/kg | 1.462 | 42.018 | mg/kg | 0.0042 % | ✓ | |
| | | 215-160-9 | 1308-38-9 | | | | | | | | |
| 9 | copper { dicopper oxide; copper (I) oxide } | | | | 39 mg/kg | 1.126 | 32.121 | mg/kg | 0.00321 % | ✓ | |
| | 029-002-00-X | 215-270-7 | 1317-39-1 | | | | | | | | |
| 10 | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } | | | 1 | 91 mg/kg | | 66.569 | mg/kg | 0.00666 % | ✓ | |
| | 082-001-00-6 | | | | | | | | | | |
| 11 | mercury { mercury dichloride } | | | | <0.1 mg/kg | 1.353 | <0.135 | mg/kg | <0.0000135 % | | <LOD |
| | 080-010-00-X | 231-299-8 | 7487-94-7 | | | | | | | | |
| 12 | nickel { nickel dihydroxide } | | | | 26 mg/kg | 1.579 | 30.042 | mg/kg | 0.003 % | ✓ | |
| | 028-008-00-X | 235-008-5 [1] 234-348-1 [2] | 12054-48-7 [1] 11113-74-9 [2] | | | | | | | | |
| 13 | selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } | | | | 3 mg/kg | 2.554 | 5.604 | mg/kg | 0.00056 % | ✓ | |
| | 034-002-00-8 | | | | | | | | | | |

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|--------|---|--------------------------------|-----------------------------------|----------|-------------------|--------------|----------------|--------------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | |
| 14 | vanadium { divanadium pentaoxide; vanadium pentoxide } | | | | 49 mg/kg | 1.785 | 63.99 mg/kg | 0.0064 % | | ✓ | |
| | 023-001-00-8 | 215-239-8 | 1314-62-1 | | | | | | | | |
| 15 | boron { boron tribromide/trichloride/trifluoride (combined) } | | | | 1.3 mg/kg | 13.43 | 12.772 mg/kg | 0.00128 % | | ✓ | |
| | | | 10294-33-4, 10294-34-5, 7637-07-2 | | | | | | | | |
| 16 | zinc { zinc sulphate } | | | | 162 mg/kg | 2.469 | 292.631 mg/kg | 0.0293 % | | ✓ | |
| | 030-006-00-9 | 231-793-3 [1] 231-793-3 [2] | 7446-19-7 [1] 7733-02-0 [2] | | | | | | | | |
| 17 | chromium in chromium(VI) compounds { chromium(VI) oxide } | | | | <0.3 mg/kg | 1.923 | <0.577 mg/kg | <0.0000577 % | | | <LOD |
| | 024-001-00-0 | 215-607-8 | 1333-82-0 | | | | | | | | |
| 18 | TPH (C6 to C40) petroleum group | | | | <52 mg/kg | | <52 mg/kg | <0.0052 % | | | <LOD |
| | | | TPH | | | | | | | | |
| 19 | naphthalene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | 601-052-00-2 | 202-049-5 | 91-20-3 | | | | | | | | |
| 20 | acenaphthylene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | | <LOD |
| | | 205-917-1 | 208-96-8 | | | | | | | | |
| 21 | acenaphthene | | | | <0.05 mg/kg | | <0.05 mg/kg | <0.000005 % | | | <LOD |
| | | 201-469-6 | 83-32-9 | | | | | | | | |
| 22 | fluorene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 201-695-5 | 86-73-7 | | | | | | | | |
| 23 | phenanthrene | | | | 0.12 mg/kg | | 0.0878 mg/kg | 0.00000878 % | | ✓ | |
| | | 201-581-5 | 85-01-8 | | | | | | | | |
| 24 | anthracene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 204-371-1 | 120-12-7 | | | | | | | | |
| 25 | fluoranthene | | | | 0.19 mg/kg | | 0.139 mg/kg | 0.0000139 % | | ✓ | |
| | | 205-912-4 | 206-44-0 | | | | | | | | |
| 26 | pyrene | | | | 0.16 mg/kg | | 0.117 mg/kg | 0.0000117 % | | ✓ | |
| | | 204-927-3 | 129-00-0 | | | | | | | | |
| 27 | benzo[a]anthracene | | | | 0.15 mg/kg | | 0.11 mg/kg | 0.000011 % | | ✓ | |
| | 601-033-00-9 | 200-280-6 | 56-55-3 | | | | | | | | |
| 28 | chrysene | | | | 0.1 mg/kg | | 0.0732 mg/kg | 0.00000732 % | | ✓ | |
| | 601-048-00-0 | 205-923-4 | 218-01-9 | | | | | | | | |
| 29 | benzo[b]fluoranthene | | | | 0.12 mg/kg | | 0.0878 mg/kg | 0.00000878 % | | ✓ | |
| | 601-034-00-4 | 205-911-9 | 205-99-2 | | | | | | | | |
| 30 | benzo[k]fluoranthene | | | | 0.05 mg/kg | | 0.0366 mg/kg | 0.00000366 % | | ✓ | |
| | 601-036-00-5 | 205-916-6 | 207-08-9 | | | | | | | | |
| 31 | benzo[a]pyrene; benzo[def]chrysene | | | | 0.07 mg/kg | | 0.0512 mg/kg | 0.00000512 % | | ✓ | |
| | 601-032-00-3 | 200-028-5 | 50-32-8 | | | | | | | | |
| 32 | indeno[123-cd]pyrene | | | | 0.07 mg/kg | | 0.0512 mg/kg | 0.00000512 % | | ✓ | |
| | | 205-893-2 | 193-39-5 | | | | | | | | |
| 33 | dibenz[a,h]anthracene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | 601-041-00-2 | 200-181-8 | 53-70-3 | | | | | | | | |
| 34 | benzo[ghi]perylene | | | | 0.07 mg/kg | | 0.0512 mg/kg | 0.00000512 % | | ✓ | |
| | | 205-883-8 | 191-24-2 | | | | | | | | |
| Total: | | | | | | | | | 0.0872 % | | |

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 Determinand - 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

Classification of sample: 57629/TP#24-2

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

Sample details

| | |
|-------------------------|---|
| Sample Name: | LoW Code: |
| 57629/TP#24-2 | Chapter: |
| Moisture content: | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| 24.9% | Entry: |
| (dry weight correction) | 17 05 04 (Soil and stones other than those mentioned in 17 05 03) |

Hazard properties

None identified


Determinands

Moisture content: 24.9% Dry Weight Moisture Correction applied (MC)

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|----|--|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|-------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | |
| 1 | pH | | | | 5.11 pH | | 5.11 | pH | 5.11 pH | | |
| 2 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } | | | | <0.5 mg/kg | 1.884 | <0.942 | mg/kg | <0.0000942 % | | <LOD |
| | 006-007-00-5 | | | | | | | | | | |
| 3 | phenol | | | | <0.01 mg/kg | | <0.01 | mg/kg | <0.000001 % | | <LOD |
| | 604-001-00-2 | 203-632-7 | 108-95-2 | | | | | | | | |
| 4 | antimony { antimony trioxide } | | | | 4 mg/kg | 1.197 | 3.834 | mg/kg | 0.000383 % | ✓ | |
| | 051-005-00-X | 215-175-0 | 1309-64-4 | | | | | | | | |
| 5 | arsenic { arsenic trioxide } | | | | 8.1 mg/kg | 1.32 | 8.563 | mg/kg | 0.000856 % | ✓ | |
| | 033-003-00-0 | 215-481-4 | 1327-53-3 | | | | | | | | |
| 6 | barium { barium sulfate } | | | | 103 mg/kg | 1.7 | 140.152 | mg/kg | 0.014 % | ✓ | |
| | | 231-784-4 | 7727-43-7 | | | | | | | | |
| 7 | cadmium { cadmium sulfide } | | | 1 | <0.1 mg/kg | 1.285 | <0.129 | mg/kg | <0.00001 % | | <LOD |
| | 048-010-00-4 | 215-147-8 | 1306-23-6 | | | | | | | | |
| 8 | chromium in chromium(III) compounds { chromium(III) oxide } | | | | 32.5 mg/kg | 1.462 | 38.031 | mg/kg | 0.0038 % | ✓ | |
| | | 215-160-9 | 1308-38-9 | | | | | | | | |
| 9 | copper { dicopper oxide; copper (I) oxide } | | | | 40 mg/kg | 1.126 | 36.057 | mg/kg | 0.00361 % | ✓ | |
| | 029-002-00-X | 215-270-7 | 1317-39-1 | | | | | | | | |
| 10 | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } | | | 1 | 21 mg/kg | | 16.813 | mg/kg | 0.00168 % | ✓ | |
| | 082-001-00-6 | | | | | | | | | | |
| 11 | mercury { mercury dichloride } | | | | <0.1 mg/kg | 1.353 | <0.135 | mg/kg | <0.0000135 % | | <LOD |
| | 080-010-00-X | 231-299-8 | 7487-94-7 | | | | | | | | |
| 12 | nickel { nickel dihydroxide } | | | | 13.6 mg/kg | 1.579 | 17.199 | mg/kg | 0.00172 % | ✓ | |
| | 028-008-00-X | 235-008-5 [1] 234-348-1 [2] | 12054-48-7 [1] 11113-74-9 [2] | | | | | | | | |
| 13 | selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } | | | | 1 mg/kg | 2.554 | 2.045 | mg/kg | 0.000204 % | ✓ | |
| | 034-002-00-8 | | | | | | | | | | |

| # | Determinand | | | CLP Note | User entered data | Conv. Factor | Compound conc. | | Classification value | MC Applied | Conc. Not Used |
|--------|---|--------------------------------|-----------------------------------|----------|-------------------|--------------|----------------|--------------|----------------------|------------|----------------|
| | CLP index number | EC Number | CAS Number | | | | | | | | |
| 14 | vanadium { divanadium pentaoxide; vanadium pentoxide } | | | | 42 mg/kg | 1.785 | 60.03 mg/kg | 0.006 % | | ✓ | |
| | 023-001-00-8 | 215-239-8 | 1314-62-1 | | | | | | | | |
| 15 | boron { boron tribromide/trichloride/trifluoride (combined) } | | | | 1.2 mg/kg | 13.43 | 12.903 mg/kg | 0.00129 % | | ✓ | |
| | | | 10294-33-4, 10294-34-5, 7637-07-2 | | | | | | | | |
| 16 | zinc { zinc sulphate } | | | | 89 mg/kg | 2.469 | 175.955 mg/kg | 0.0176 % | | ✓ | |
| | 030-006-00-9 | 231-793-3 [1] 231-793-3 [2] | 7446-19-7 [1] 7733-02-0 [2] | | | | | | | | |
| 17 | chromium in chromium(VI) compounds { chromium(VI) oxide } | | | | <0.3 mg/kg | 1.923 | <0.577 mg/kg | <0.0000577 % | | | <LOD |
| | 024-001-00-0 | 215-607-8 | 1333-82-0 | | | | | | | | |
| 18 | TPH (C6 to C40) petroleum group | | | | <52 mg/kg | | <52 mg/kg | <0.0052 % | | | <LOD |
| | | | TPH | | | | | | | | |
| 19 | naphthalene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | 601-052-00-2 | 202-049-5 | 91-20-3 | | | | | | | | |
| 20 | acenaphthylene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | | <LOD |
| | | 205-917-1 | 208-96-8 | | | | | | | | |
| 21 | acenaphthene | | | | <0.05 mg/kg | | <0.05 mg/kg | <0.000005 % | | | <LOD |
| | | 201-469-6 | 83-32-9 | | | | | | | | |
| 22 | fluorene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 201-695-5 | 86-73-7 | | | | | | | | |
| 23 | phenanthrene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | | <LOD |
| | | 201-581-5 | 85-01-8 | | | | | | | | |
| 24 | anthracene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 204-371-1 | 120-12-7 | | | | | | | | |
| 25 | fluoranthene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | | <LOD |
| | | 205-912-4 | 206-44-0 | | | | | | | | |
| 26 | pyrene | | | | <0.03 mg/kg | | <0.03 mg/kg | <0.000003 % | | | <LOD |
| | | 204-927-3 | 129-00-0 | | | | | | | | |
| 27 | benzo[a]anthracene | | | | <0.06 mg/kg | | <0.06 mg/kg | <0.000006 % | | | <LOD |
| | 601-033-00-9 | 200-280-6 | 56-55-3 | | | | | | | | |
| 28 | chrysene | | | | <0.02 mg/kg | | <0.02 mg/kg | <0.000002 % | | | <LOD |
| | 601-048-00-0 | 205-923-4 | 218-01-9 | | | | | | | | |
| 29 | benzo[b]fluoranthene | | | | <0.05 mg/kg | | <0.05 mg/kg | <0.000005 % | | | <LOD |
| | 601-034-00-4 | 205-911-9 | 205-99-2 | | | | | | | | |
| 30 | benzo[k]fluoranthene | | | | <0.02 mg/kg | | <0.02 mg/kg | <0.000002 % | | | <LOD |
| | 601-036-00-5 | 205-916-6 | 207-08-9 | | | | | | | | |
| 31 | benzo[a]pyrene; benzo[def]chrysene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | 601-032-00-3 | 200-028-5 | 50-32-8 | | | | | | | | |
| 32 | indeno[123-cd]pyrene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 205-893-2 | 193-39-5 | | | | | | | | |
| 33 | dibenz[a,h]anthracene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | 601-041-00-2 | 200-181-8 | 53-70-3 | | | | | | | | |
| 34 | benzo[ghi]perylene | | | | <0.04 mg/kg | | <0.04 mg/kg | <0.000004 % | | | <LOD |
| | | 205-883-8 | 191-24-2 | | | | | | | | |
| Total: | | | | | | | | | 0.0566 % | | |

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 Determinand - 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

Appendix A: Classifier defined and non CLP determinands

■ pH (CAS Number: PH)

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

■ salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex

CLP index number: 006-007-00-5
Description/Comments: Conversion factor based on a worst case compound: sodium cyanide
Data source: Commission Regulation (EC) No 790/2009 - 1st Adaptation to Technical Progress for Regulation (EC) No 1272/2008. (ATP1)
Additional Risk Phrases: None.
Additional Hazard Statement(s): EUH032 >= 0.2 %
Reason for additional Hazards Statement(s)/Risk Phrase(s):
14 Dec 2015 - EUH032 >= 0.2 % hazard statement sourced from: WM3, Table C12.2

■ barium sulfate (EC Number: 231-784-4, CAS Number: 7727-43-7)

Conversion factor: 1.7
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
Risk Phrases: R36/37/38 , R33 , R20/22
Hazard Statements: Skin Irrit. 2 H315 , STOT SE 3 H335 , Eye Irrit. 2 H319 , STOT RE 2 H373 , Acute Tox. 4 H302 , Acute Tox. 4 H332

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

Conversion factor: 1.462
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
Risk Phrases: R61 , R60 , R50/53 , R43 , R42 , R38 , R37 , R36 , R22 , R20
Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Repr. 1B H360FD , Skin Sens. 1 H317 , Resp. Sens. 1 H334 , Skin Irrit. 2 H315 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Acute Tox. 4 H302 , Acute Tox. 4 H332

■ dicopper oxide; copper (I) oxide (EC Number: 215-270-7, CAS Number: 1317-39-1)

CLP index number: 029-002-00-X
Description/Comments: M-factor for long-term aquatic hazard not included as per paragraph (5), ATP9
Data source: Regulation (EU) 2016/1179 of 19 July 2016 (ATP9)
Additional Risk Phrases: N R50/53 >= 0.25 % , N R50/53
Additional Hazard Statement(s): None.
Reason for additional Hazards Statement(s)/Risk Phrase(s):
10 Oct 2016 - N R50/53 >= 0.25 % risk phrase sourced from: WM3 v1 still uses ecotoxic risk phrases
10 Oct 2016 - N R50/53 risk phrase sourced from: WM3 v1 still uses ecotoxic risk phrases

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

CLP index number: 082-001-00-6
Description/Comments: Worst Case: IARC considers lead compounds Group 1; Carcinogenic to humans; Lead REACH Consortium considers some lead compounds Carcinogenic category 1A
Data source: Regulation 1272/2008/EC - Classification, labelling and packaging of substances and mixtures. (CLP)
Additional Risk Phrases: None.
Additional Hazard Statement(s): Carc. 1A H350
Reason for additional Hazards Statement(s)/Risk Phrase(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

■ boron tribromide/trichloride/trifluoride (combined) (CAS Number: 10294-33-4, 10294-34-5, 7637-07-2)

Conversion factor: 13.43
Description/Comments: Combines the hazard statements and the average of the conversion factors for boron tribromide, boron trichloride and boron trifluoride
Data source: N/A
Data source date: 06 Aug 2015
Risk Phrases: C R35 , C R34 , T+ R26/28 , R14
Hazard Statements: Skin Corr. 1B H314 , Skin Corr. 1A H314 , Acute Tox. 2 H300 , Acute Tox. 2 H330 , EUH014

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

Description/Comments: Hazard statements taken from WM3 1st Edition 2015; Risk phrases: WM2 3rd Edition 2013

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

Risk Phrases: R65 , R63 , R51/53 , R46 , R45 , R10

Hazard Statements: Aquatic Chronic 2 H411 , Repr. 2 H361d , Carc. 1B H350 , Muta. 1B H340 , STOT RE 2 H373 , Asp. Tox. 1 H304 , Flam. Liq. 3 H226

• **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

Risk Phrases: R38 , R37 , R36 , R27 , R26 , R22

Hazard Statements: Skin Irrit. 2 H315 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Acute Tox. 1 H310 , Acute Tox. 1 H330 , Acute Tox. 4 H302

• **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

Risk Phrases: N R51/53 , N R50/53 , R38 , R37 , R36

Hazard Statements: Aquatic Chronic 2 H411 , Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Skin Irrit. 2 H315 , STOT SE 3 H335 , Eye Irrit. 2 H319

• **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

Risk Phrases: N R50/53

Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400

• **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

Risk Phrases: N R50/53 , R43 , R40 , R38 , R37 , R36 , R22

Hazard Statements: Skin Irrit. 2 H315 , Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Skin Sens. 1 H317 , Carc. 2 H351 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Acute Tox. 4 H302

• **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

Risk Phrases: N R50/53 , R43 , R38 , R37 , R36

Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Skin Sens. 1 H317 , Skin Irrit. 2 H315 , STOT SE 3 H335 , Eye Irrit. 2 H319

• **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

Risk Phrases: N R50/53 , Xn R22

Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Acute Tox. 4 H302

• **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

Risk Phrases: N R50/53 , Xi R36/37/38

Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Skin Irrit. 2 H315

• **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

Risk Phrases: R40

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
Risk Phrases: N R50/53
Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400

Appendix B: Rationale for selection of metal species

cyanides {salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex}

Worst case species

antimony {antimony trioxide}

Potentially carcinogenic. Most likely to negatively impact human health. If lots of sulfide is present then consider stoichiometric relativity of that, trisulfide is also a 2B carcinogen.

arsenic {arsenic trioxide}

Worst case species based on risk phrases

barium {barium sulfate}

Chromate or Sulfate most likely forms. No Chromate present.

cadmium {cadmium sulfide}

Worst case species based on risk phrases

chromium in chromium(III) compounds {chromium(III) oxide}

Most likely species

copper {dicopper oxide; copper (I) oxide}

Most likely common species

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

No Chromate present.

mercury {mercury dichloride}

Worst case species based on risk phrases

nickel {nickel dihydroxide}

Worst case species based on risk phrases

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

Worst case species based on risk phrases

vanadium {divanadium pentaoxide; vanadium pentoxide}

Likely species

boron {boron tribromide/trichloride/trifluoride (combined)}

Worst case species based on risk phrases

zinc {zinc sulphate}

Chromate or Sulfate most likely forms. No Chromate present.

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

most likely species

Appendix C: Version

HazWasteOnline Classification Engine: WM3 1st Edition, May 2015
HazWasteOnline Classification Engine Version: 2018.129.3535.7218 (09 May 2018)
HazWasteOnline Database: 2018.129.3535.7218 (09 May 2018)

This classification utilises the following guidance and legislation:

WM3 - Waste Classification - May 2015

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 Wastes 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

POPs Regulation 2004 - Regulation 850/2004/EC of 29 April 2004

1st ATP to POPs Regulation - Regulation 756/2010/EU of 24 August 2010

2nd ATP to POPs Regulation - Regulation 757/2010/EU of 24 August 2010

Appendix P

Geotechnical Testing Results

Certificate of Analysis for Plasticity Index & Water Content

Client: Broxtowe Borough Council

Site: Eastwood

Lab Ref: 57629

Date of Test: 29-30/04/18

Test Methods: BS 1377: 1990: Part 2: Clauses 4.4 and 5 - Liquid Limit/Plastic Limit/Plasticity Index
BS EN ISO 17892-1:2014 - Water Content

Results:

| Sample Ref | Material Description | LL (%) | PL (%) | PI (%) | % Retained on 425µm | Modified PI (%)* | Soil Classification | WC (%) |
|---------------|--|--------|--------|--------|---------------------|------------------|---------------------|--------|
| 57629/TP1-D3 | Yellow and grey CLAY | 39 | 20 | 19 | 31 | 13 | CI | 13.6 |
| 57629/TP2-D3 | Grey CLAY | 53 | 26 | 27 | 3 | 26 | CH | 18.7 |
| 57629/TP3-D2 | Grey and yellowy brown CLAY | 46 | 24 | 22 | 3 | 21 | CI | 19.8 |
| 57629/TP4-D2 | Yellow and grey CLAY | 45 | 23 | 22 | 4 | 21 | CI | 19.7 |
| 57629/TP5-D2 | Yellow and grey slightly gravelly CLAY. Gravels of weathered sandstone. | 51 | 28 | 23 | 4 | 22 | CH/MH | 30.2 |
| 57629/TP7-D2 | Yellow slightly sandy CLAY | 27 | 16 | 11 | 4 | 10 | CL | 13.2 |
| 57629/TP8-D2 | Yellow and grey slightly sandy CLAY | 32 | 18 | 14 | 13 | 6 | CL | 15.0 |
| 57629/TP9-D2 | Yellow and orange sandy CLAY | 32 | 17 | 15 | 14 | 4 | CL | 15.6 |
| 57629/TP10-D3 | Yellow laminated sandy CLAY | 33 | 18 | 15 | 15 | 1 | CL | 13.6 |

The samples tested were disturbed and in their natural condition.

* Modified plasticity index relates to BRE Digest 240.

LL = Liquid Limit

PL = Plastic Limit

PI = Plasticity Index

WC = Water Content

BRE Digest 240 is not included in the UKAS schedule for this Laboratory.

Certificate of Analysis for Plasticity Index & Water Content

Client: Broxtowe Borough Council

Site: Eastwood

Lab Ref: 57629

Date of Test: 29-30/04/18

**Test Methods: BS 1377: 1990: Part 2: Clauses 4.4 and 5 - Liquid Limit/Plastic Limit/Plasticity Index
BS EN ISO 17892-1:2014 - Water Content**

Results:

| Sample Ref | Material Description | LL (%) | PL (%) | PI (%) | % Retained on 425µm | Modified PI (%)* | Soil Classification | WC (%) |
|---------------|---|--------|--------|--------|---------------------|------------------|---------------------|--------|
| 57629/TP11-D3 | Yellow and grey slightly gravelly CLAY with occasional coal | 31 | 8 | 23 | 1 | 23 | CL | 16.7 |
| 57629/TP12-D3 | Yellow and grey laminated CLAY | 45 | 23 | 22 | 2 | 22 | CI | 20.3 |
| 57629/TP13-D3 | Yellow and grey CLAY | 40 | 21 | 19 | 2 | 19 | CI | 21.0 |
| 57629/TP14-D3 | Grey and yellow CLAY with lenses of black organic slightly silty CLAY | 53 | 27 | 26 | 7 | 24 | CH | 35.2 |
| 57629/TP15-D3 | Grey slightly gravelly CLAY | 64 | 29 | 35 | 8 | 32 | CH | 20.0 |
| 57629/TP18-D2 | Yellow and grey CLAY | 32 | 18 | 14 | 2 | 14 | CL | 19.1 |
| 57629/TP19-D2 | Orange brown slightly sandy and silty CLAY | 30 | 9 | 21 | 2 | 21 | CL | 20.0 |
| 57629/TP20-D3 | Grey and yellow layered and weathered MUDSTONE | 42 | 21 | 21 | 5 | 20 | CI | 17.7 |
| 57629/TP21-D2 | Orangey brown slightly sandy silty CLAY | 29 | 17 | 12 | 3 | 12 | CL | 18.8 |

The samples tested were disturbed and in their natural condition.

* Modified plasticity index relates to BRE Digest 240.

LL = Liquid Limit

PL = Plastic Limit

PI = Plasticity Index

WC = Water Content

BRE Digest 240 is not included in the UKAS schedule for this Laboratory.

Certificate of Analysis for Plasticity Index & Water Content

Client: Broxtowe Borough Council

Site: Eastwood

Lab Ref: 57629

Date of Test: 29-30/04/18

Test Methods: BS 1377: 1990: Part 2: Clauses 4.4 and 5 - Liquid Limit/Plastic Limit/Plasticity Index
BS EN ISO 17892-1:2014 - Water Content

Results:

| Sample Ref | Material Description | LL (%) | PL (%) | PI (%) | % Retained on 425µm | Modified PI (%)* | Soil Classification | WC (%) |
|---------------|----------------------|--------|--------|--------|---------------------|------------------|---------------------|--------|
| 57629/TP22-D2 | Yellow and grey CLAY | 55 | 12 | 43 | 5 | 41 | CH | 24.5 |
| 57629/TP24-D3 | Grey laminated CLAY | 43 | 23 | 20 | 2 | 20 | CI | 19.7 |

The samples tested were disturbed and in their natural condition.

* Modified plasticity index relates to BRE Digest 240.

LL = Liquid Limit

PL = Plastic Limit

PI = Plasticity Index

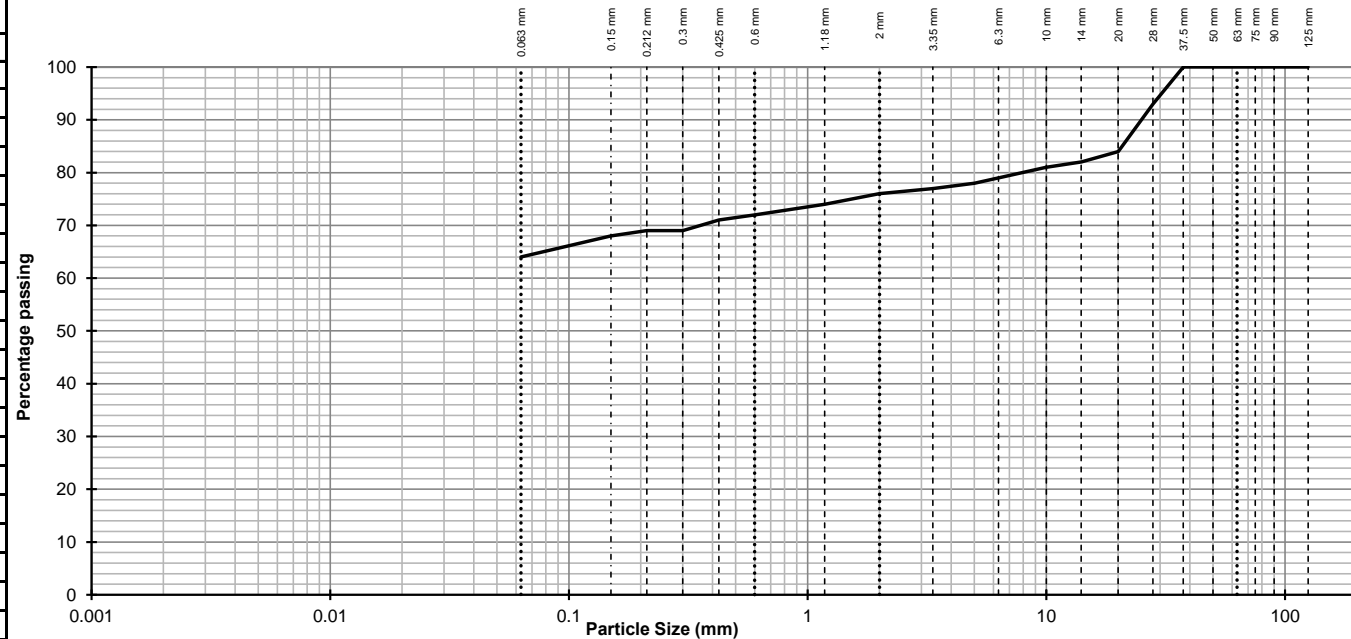
WC = Water Content

BRE Digest 240 is not included in the UKAS schedule for this Laboratory.

Particle Size Distribution

| | | | | | | | |
|----------------|--------------------------|------------------------|-----------|---------------------|----------------------|--------------------|----------|
| Client: | Broxtowe Borough Council | Sample ref: | TP1-D3 | Date Tested: | 11-Apr-18 | Sampled by: | Kiwa CMT |
| Site: | Eastwood Landfill | Sampling cert.: | Available | Sample size: | | Source: | Site |
| | | Lab ref.: | 57629 | Description: | Yellow and grey CLAY | | |

| Sieve Size (mm) | % Passing |
|-----------------|-----------|
| 125 | 100 |
| 90 | 100 |
| 75 | 100 |
| 63 | 100 |
| 50 | 100 |
| 37.5 | 100 |
| 28 | 93 |
| 20 | 84 |
| 14 | 82 |
| 10 | 81 |
| 6.3 | 79 |
| 5 | 78 |
| 3.35 | 77 |
| 2 | 76 |
| 1.18 | 74 |
| 0.6 | 72 |
| 0.425 | 71 |
| 0.3 | 69 |
| 0.212 | 69 |
| 0.15 | 68 |
| 0.063 | 64 |



| Soil Fraction | Total Percentage |
|---------------|------------------|
| Cobbles | 0 |
| Gravel | 24 |
| Sand | 12 |
| Silt/Clay | 64 |

| | | | | | | | | | | |
|------|------|--------|--------|------|--------|--------|--------|--------|--------|---------|
| | Fine | Medium | Coarse | Fine | Medium | Coarse | Fine | Medium | Coarse | |
| CLAY | SILT | | | SAND | | | GRAVEL | | | COBBLES |

Comments: Test carried out in accordance with **BS1377: Part 2: 1990: Clause 9.2**
 Uniformity coefficient = 6 (For information only)
 The material tested complies with the grading requirements of 1A
 in accordance with Table 6/2 of the specification for Highway Works Series 600

Particle Size Distribution

Client: Broxtowe Borough Council

Sample ref: TP2-D3

Date Tested: 11-Apr-18

Sampled by: Kiwa CMT

Site: Eastwood Landfill

Sampling cert.: Available

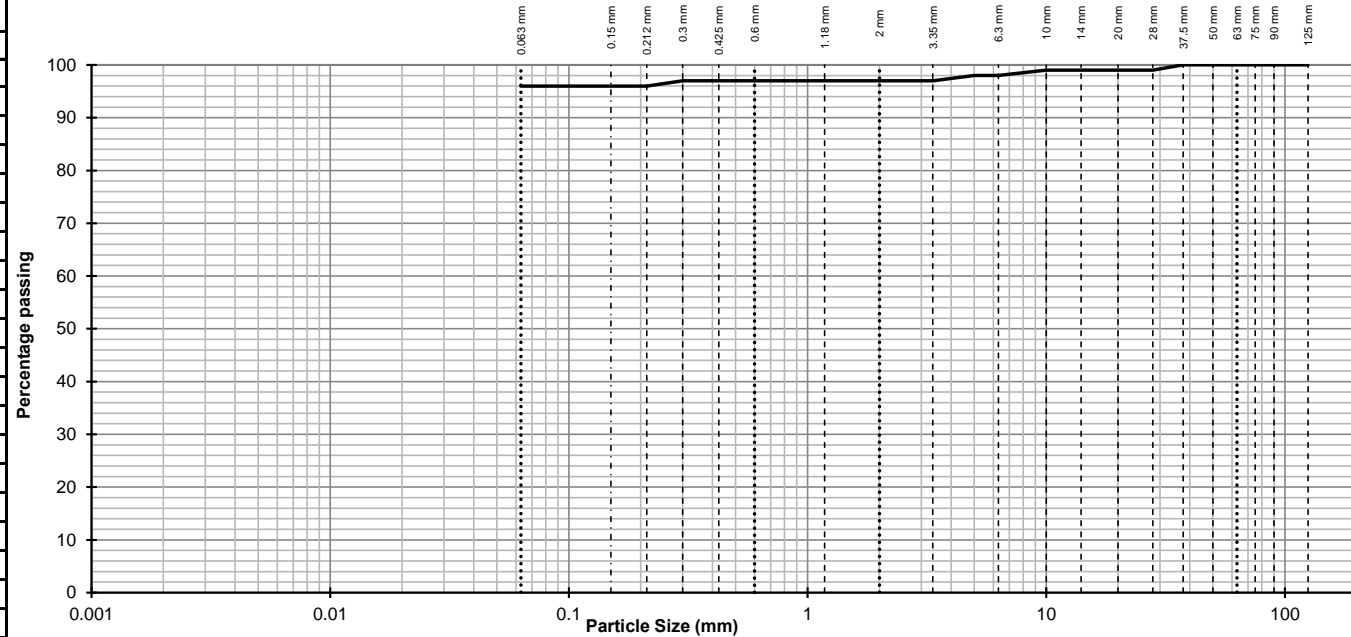
Sample size:

Source: Site

Lab ref.: 57629

Description: Grey CLAY

| Sieve Size (mm) | % Passing |
|-----------------|-----------|
| 125 | 100 |
| 90 | 100 |
| 75 | 100 |
| 63 | 100 |
| 50 | 100 |
| 37.5 | 100 |
| 28 | 99 |
| 20 | 99 |
| 14 | 99 |
| 10 | 99 |
| 6.3 | 98 |
| 5 | 98 |
| 3.35 | 97 |
| 2 | 97 |
| 1.18 | 97 |
| 0.6 | 97 |
| 0.425 | 97 |
| 0.3 | 97 |
| 0.212 | 96 |
| 0.15 | 96 |
| 0.063 | 96 |



| Soil Fraction | Total Percentage |
|---------------|------------------|
| Cobbles | 0 |
| Gravel | 3 |
| Sand | 1 |
| Silt/Clay | 96 |

| | | | | | | | | | | |
|------|------|--------|--------|------|--------|--------|--------|--------|--------|---------|
| CLAY | Fine | Medium | Coarse | Fine | Medium | Coarse | Fine | Medium | Coarse | COBBLES |
| | SILT | | | SAND | | | GRAVEL | | | |

Comments: Test carried out in accordance with **BS1377: Part 2: 1990: Clause 9.2**
 Uniformity coefficient = 6 (For information only)
 The material tested complies with the grading requirements of 1A
 in accordance with Table 6/2 of the specification for Highway Works Series 600

Particle Size Distribution

Client: Broxtowe Borough Council

Sample ref: TP3-D2

Date Tested: 11-Apr-18

Sampled by: Kiwa CMT

Site: Eastwood Landfill

Sampling cert.: Available

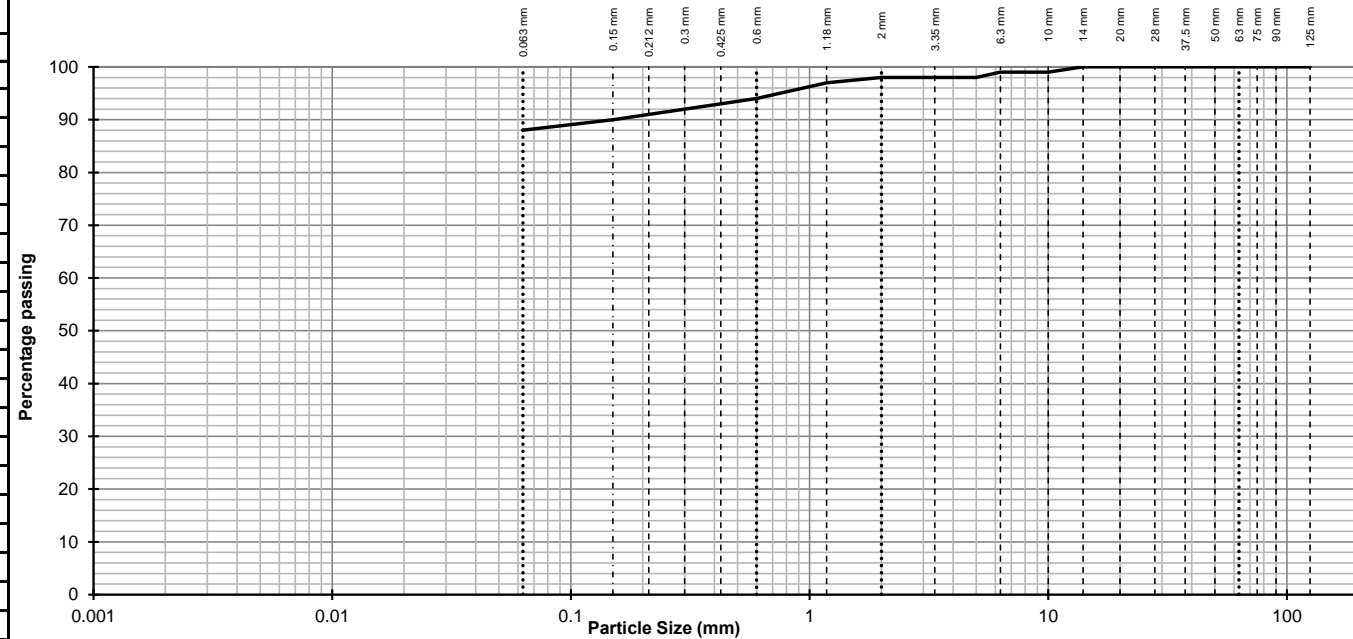
Sample size:

Source: Site

Lab ref.: 57629

Description: Grey and yellowy brown CLAY

| Sieve Size (mm) | % Passing |
|-----------------|-----------|
| 125 | 100 |
| 90 | 100 |
| 75 | 100 |
| 63 | 100 |
| 50 | 100 |
| 37.5 | 100 |
| 28 | 100 |
| 20 | 100 |
| 14 | 100 |
| 10 | 99 |
| 6.3 | 99 |
| 5 | 98 |
| 3.35 | 98 |
| 2 | 98 |
| 1.18 | 97 |
| 0.6 | 94 |
| 0.425 | 93 |
| 0.3 | 92 |
| 0.212 | 91 |
| 0.15 | 90 |
| 0.063 | 88 |



| Soil Fraction | Total Percentage |
|---------------|------------------|
| Cobbles | 0 |
| Gravel | 2 |
| Sand | 10 |
| Silt/Clay | 88 |

| | | | | | | | | | | |
|------|------|--------|--------|------|--------|--------|--------|--------|--------|---------|
| CLAY | Fine | Medium | Coarse | Fine | Medium | Coarse | Fine | Medium | Coarse | COBBLES |
| | SILT | | | SAND | | | GRAVEL | | | |

Comments: Test carried out in accordance with **BS1377: Part 2: 1990: Clause 9.2**
 Uniformity coefficient = 6 (For information only)
 The material tested complies with the grading requirements of 1A
 in accordance with Table 6/2 of the specification for Highway Works Series 600

Particle Size Distribution

Client: Broxtowe Borough Council

Sample ref: TP4-D2

Date Tested: 11-Apr-18

Sampled by: Kiwa CMT

Site: Eastwood Landfill

Sampling cert.: Available

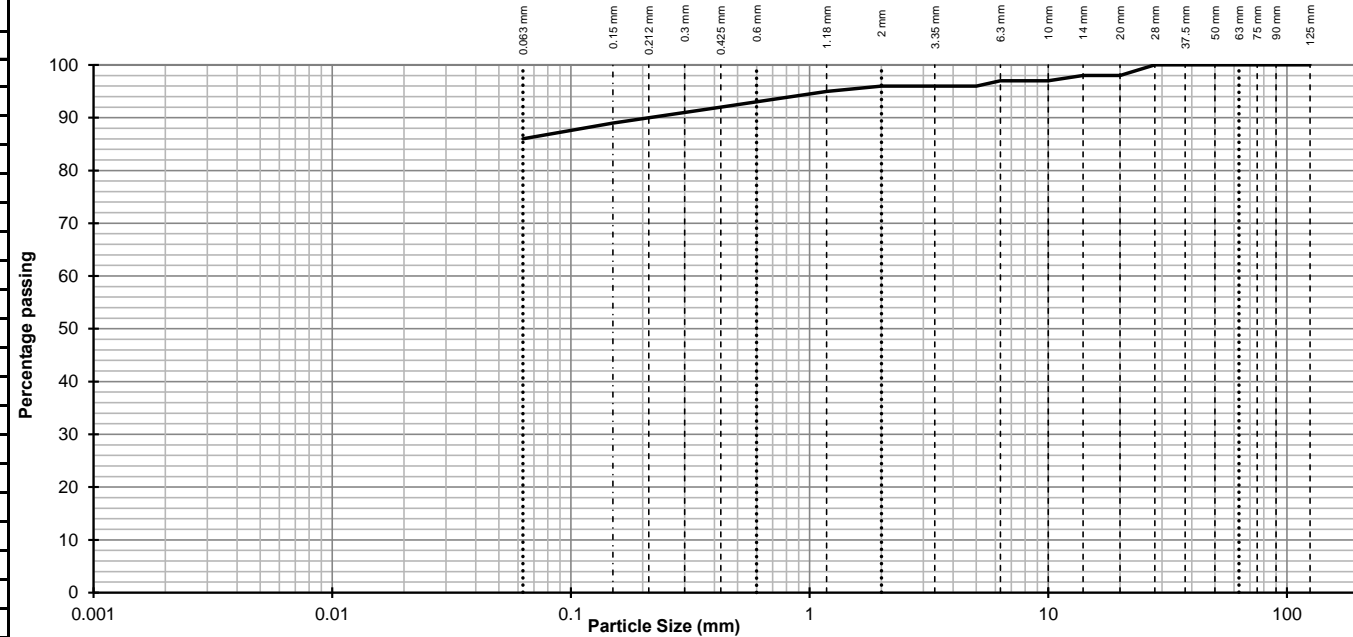
Sample size:

Source: Site

Lab ref.: 57629

Description: Yellow and grey CLAY

| Sieve Size (mm) | % Passing |
|-----------------|-----------|
| 125 | 100 |
| 90 | 100 |
| 75 | 100 |
| 63 | 100 |
| 50 | 100 |
| 37.5 | 100 |
| 28 | 100 |
| 20 | 98 |
| 14 | 98 |
| 10 | 97 |
| 6.3 | 97 |
| 5 | 96 |
| 3.35 | 96 |
| 2 | 96 |
| 1.18 | 95 |
| 0.6 | 93 |
| 0.425 | 92 |
| 0.3 | 91 |
| 0.212 | 90 |
| 0.15 | 89 |
| 0.063 | 86 |



| Soil Fraction | Total Percentage |
|---------------|------------------|
| Cobbles | 0 |
| Gravel | 4 |
| Sand | 10 |
| Silt/Clay | 86 |

| | | | | | | | | | | |
|------|------|--------|--------|------|--------|--------|--------|--------|--------|---------|
| | Fine | Medium | Coarse | Fine | Medium | Coarse | Fine | Medium | Coarse | |
| CLAY | SILT | | | SAND | | | GRAVEL | | | COBBLES |

Comments: Test carried out in accordance with **BS1377: Part 2: 1990: Clause 9.2**
 Uniformity coefficient = 6 (For information only)
 The material tested complies with the grading requirements of 1A
 in accordance with Table 6/2 of the specification for Highway Works Series 600

Particle Size Distribution

Client: Broxtowe Borough Council

Sample ref: TP5-D2

Date Tested: 11-Apr-18

Sampled by: Kiwa CMT

Site: Eastwood Landfill

Sampling cert.: Available

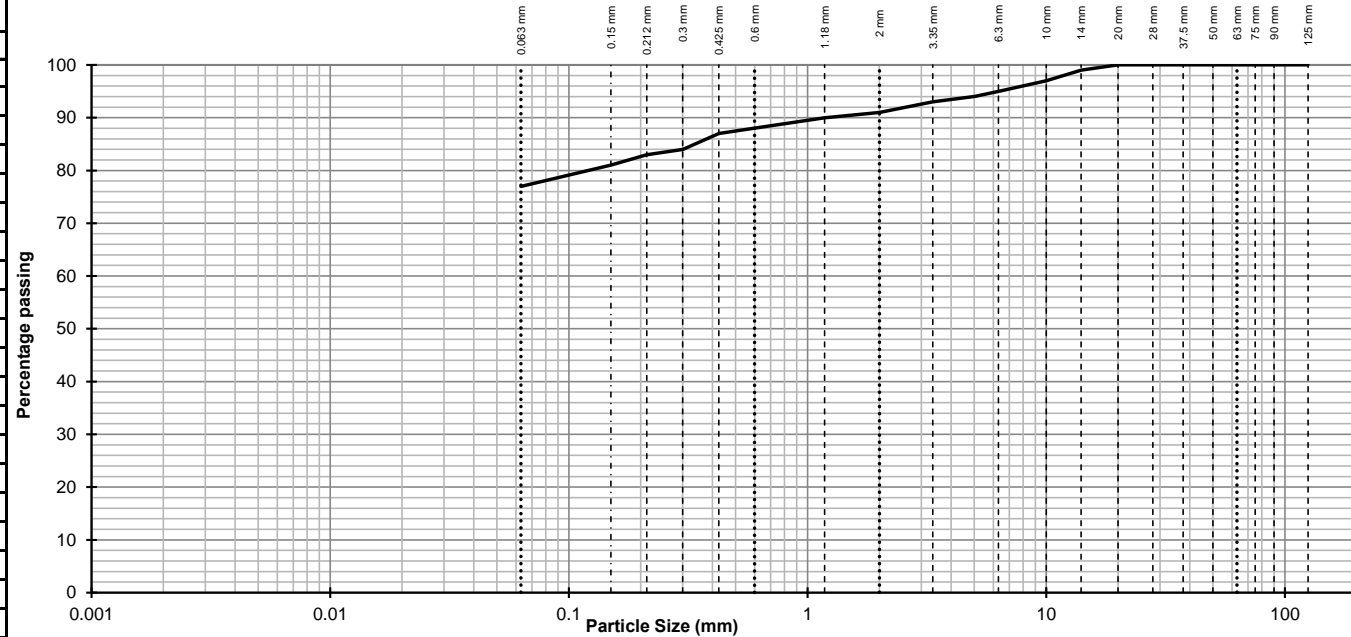
Sample size:

Source: Site

Lab ref.: 57629

Description: Yellow and grey slightly gravelly
CLAY. Gravels of weathered Sandstone

| Sieve Size (mm) | % Passing |
|-----------------|-----------|
| 125 | 100 |
| 90 | 100 |
| 75 | 100 |
| 63 | 100 |
| 50 | 100 |
| 37.5 | 100 |
| 28 | 100 |
| 20 | 100 |
| 14 | 99 |
| 10 | 97 |
| 6.3 | 95 |
| 5 | 94 |
| 3.35 | 93 |
| 2 | 91 |
| 1.18 | 90 |
| 0.6 | 88 |
| 0.425 | 87 |
| 0.3 | 84 |
| 0.212 | 83 |
| 0.15 | 81 |
| 0.063 | 77 |



| Soil Fraction | Total Percentage |
|---------------|------------------|
| Cobbles | 0 |
| Gravel | 9 |
| Sand | 14 |
| Silt/Clay | 77 |

| | | | | | | | | | | |
|------|------|--------|--------|------|--------|--------|--------|--------|--------|---------|
| CLAY | Fine | Medium | Coarse | Fine | Medium | Coarse | Fine | Medium | Coarse | COBBLES |
| | SILT | | | SAND | | | GRAVEL | | | |

Comments: Test carried out in accordance with **BS1377: Part 2: 1990: Clause 9.2**
 Uniformity coefficient = 6 (For information only)
 The material tested complies with the grading requirements of 1A
 in accordance with Table 6/2 of the specification for Highway Works Series 600

Particle Size Distribution

Client: Broxtowe Borough Council

Sample ref: TP7-D2

Date Tested: 11-Apr-18

Sampled by: Kiwa CMT

Site: Eastwood Landfill

Sampling cert.: Available

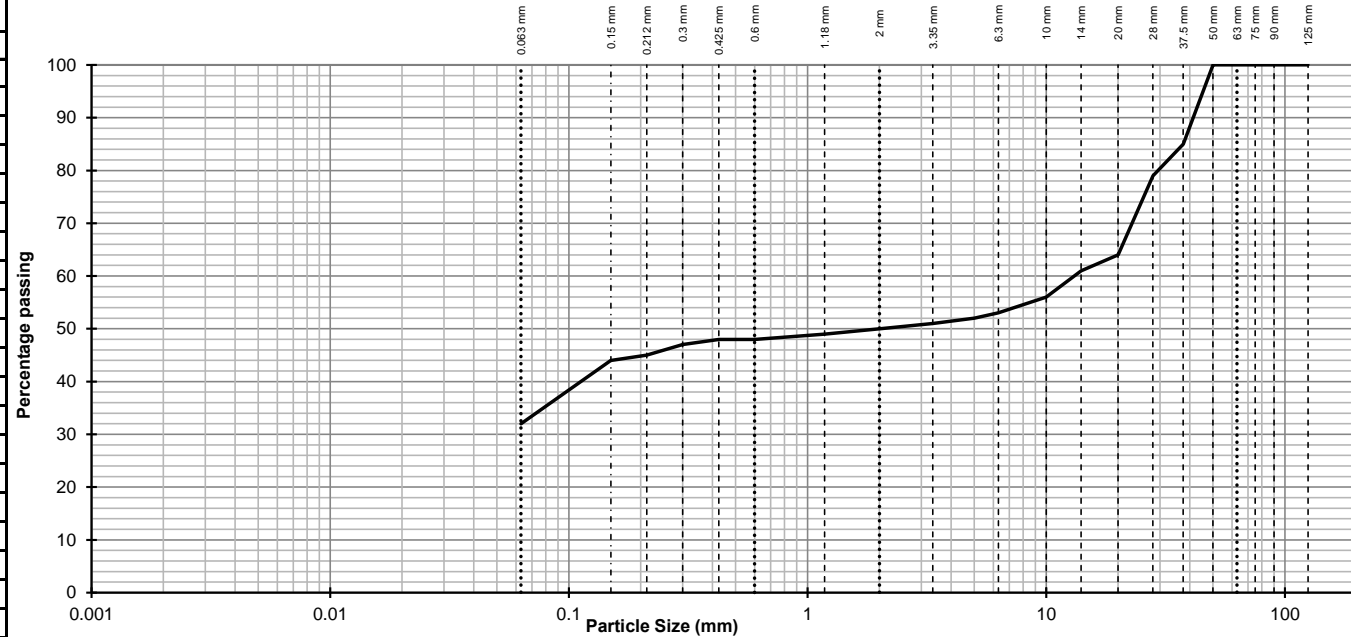
Sample size:

Source: Site

Lab ref.: 57629

Description: Yellow slightly sandy CLAY

| Sieve Size (mm) | % Passing |
|-----------------|-----------|
| 125 | 100 |
| 90 | 100 |
| 75 | 100 |
| 63 | 100 |
| 50 | 100 |
| 37.5 | 85 |
| 28 | 79 |
| 20 | 64 |
| 14 | 61 |
| 10 | 56 |
| 6.3 | 53 |
| 5 | 52 |
| 3.35 | 51 |
| 2 | 50 |
| 1.18 | 49 |
| 0.6 | 48 |
| 0.425 | 48 |
| 0.3 | 47 |
| 0.212 | 45 |
| 0.15 | 44 |
| 0.063 | 32 |



| Soil Fraction | Total Percentage |
|---------------|------------------|
| Cobbles | 0 |
| Gravel | 50 |
| Sand | 18 |
| Silt/Clay | 32 |

| | | | | | | | | | | |
|------|------|--------|--------|------|--------|--------|--------|--------|--------|---------|
| CLAY | Fine | Medium | Coarse | Fine | Medium | Coarse | Fine | Medium | Coarse | COBBLES |
| | SILT | | | SAND | | | GRAVEL | | | |

Comments: Test carried out in accordance with **BS1377: Part 2: 1990: Clause 9.2**
 Uniformity coefficient = 670 (For information only)
 The material tested complies with the grading requirements of 1A
 in accordance with Table 6/2 of the specification for Highway Works Series 600

Particle Size Distribution

Client: Broxtowe Borough Council

Sample ref: TP8-D2

Date Tested: 11-Apr-18

Sampled by: Kiwa CMT

Site: Eastwood Landfill

Sampling cert.: Available

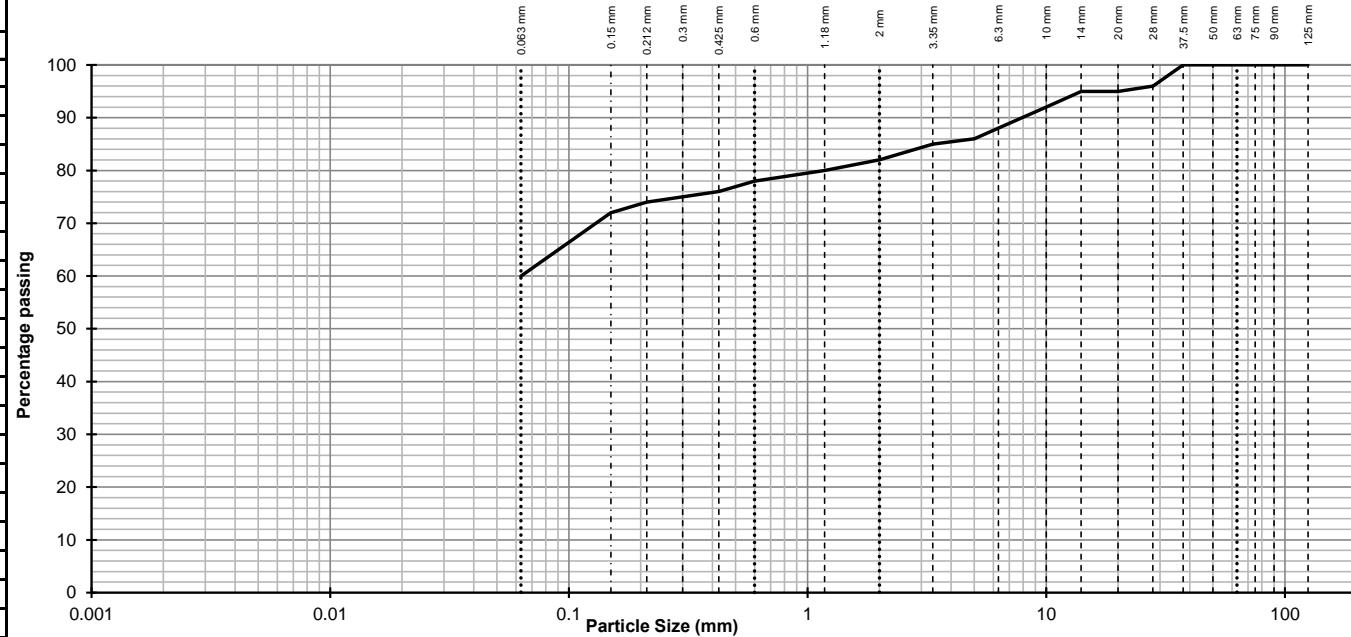
Sample size:

Source: Site

Lab ref.: 57629

Description: Yellow and grey CLAY

| Sieve Size (mm) | % Passing |
|-----------------|-----------|
| 125 | 100 |
| 90 | 100 |
| 75 | 100 |
| 63 | 100 |
| 50 | 100 |
| 37.5 | 100 |
| 28 | 96 |
| 20 | 95 |
| 14 | 95 |
| 10 | 92 |
| 6.3 | 88 |
| 5 | 86 |
| 3.35 | 85 |
| 2 | 82 |
| 1.18 | 80 |
| 0.6 | 78 |
| 0.425 | 76 |
| 0.3 | 75 |
| 0.212 | 74 |
| 0.15 | 72 |
| 0.063 | 60 |



| Soil Fraction | Total Percentage |
|---------------|------------------|
| Cobbles | 0 |
| Gravel | 18 |
| Sand | 22 |
| Silt/Clay | 60 |

| | | | | | | | | | | |
|------|------|--------|--------|------|--------|--------|--------|--------|--------|---------|
| CLAY | Fine | Medium | Coarse | Fine | Medium | Coarse | Fine | Medium | Coarse | COBBLES |
| | SILT | | | SAND | | | GRAVEL | | | |

Comments: Test carried out in accordance with **BS1377: Part 2: 1990: Clause 9.2**
 Uniformity coefficient = 6 (For information only)
 The material tested complies with the grading requirements of 1A
 in accordance with Table 6/2 of the specification for Highway Works Series 600

Particle Size Distribution

Client: Broxtowe Borough Council

Sample ref: TP9-D2

Date Tested: 11-Apr-18

Sampled by: Kiwa CMT

Site: Eastwood Landfill

Sampling cert.: Available

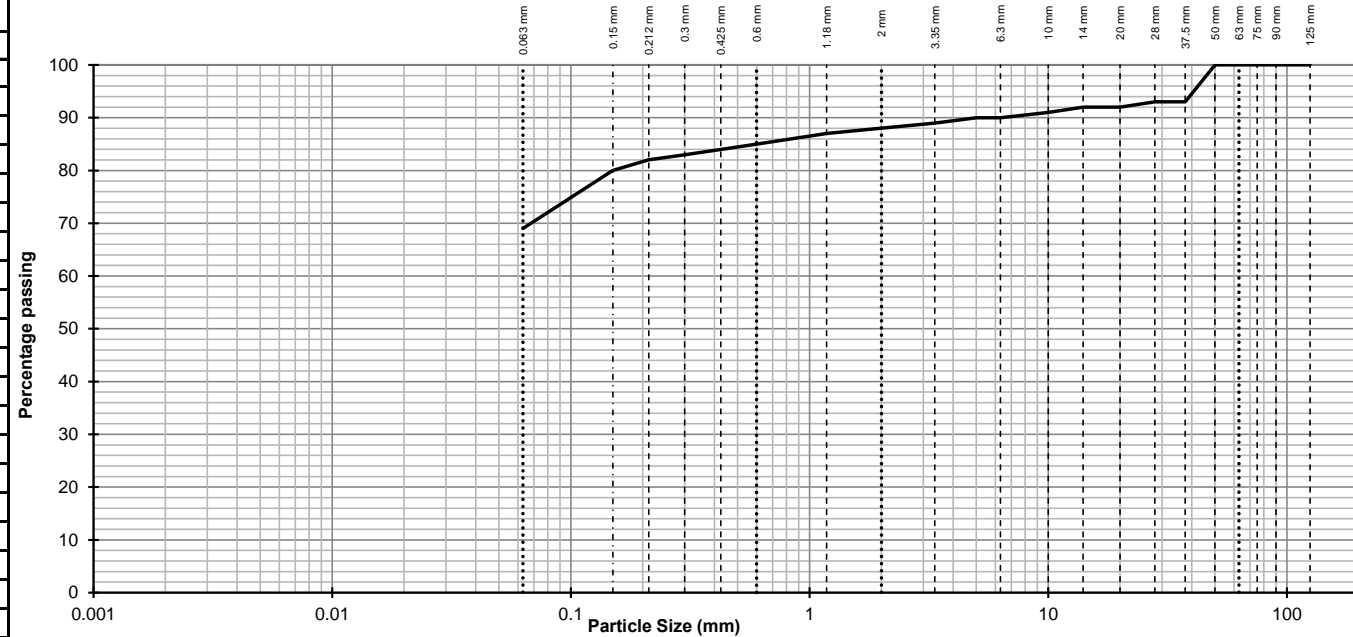
Sample size:

Source: Site

Lab ref.: 57629

Description: Yellow and orange sandy
CLAY

| Sieve Size (mm) | % Passing |
|-----------------|-----------|
| 125 | 100 |
| 90 | 100 |
| 75 | 100 |
| 63 | 100 |
| 50 | 100 |
| 37.5 | 93 |
| 28 | 93 |
| 20 | 92 |
| 14 | 92 |
| 10 | 91 |
| 6.3 | 90 |
| 5 | 90 |
| 3.35 | 89 |
| 2 | 88 |
| 1.18 | 87 |
| 0.6 | 85 |
| 0.425 | 84 |
| 0.3 | 83 |
| 0.212 | 82 |
| 0.15 | 80 |
| 0.063 | 69 |



| Soil Fraction | Total Percentage |
|---------------|------------------|
| Cobbles | 0 |
| Gravel | 12 |
| Sand | 19 |
| Silt/Clay | 69 |

| | | | | | | | | | | |
|------|------|--------|--------|------|--------|--------|--------|--------|--------|---------|
| CLAY | Fine | Medium | Coarse | Fine | Medium | Coarse | Fine | Medium | Coarse | COBBLES |
| | SILT | | | SAND | | | GRAVEL | | | |

Comments: Test carried out in accordance with **BS1377: Part 2: 1990: Clause 9.2**
 Uniformity coefficient = 6 (For information only)
 The material tested complies with the grading requirements of 1A
 in accordance with Table 6/2 of the specification for Highway Works Series 600

Particle Size Distribution

Client: Broxtowe Borough Council

Sample ref: TP10-D3

Date Tested: 11-Apr-18

Sampled by: Kiwa CMT

Site: Eastwood Landfill

Sampling cert.: Available

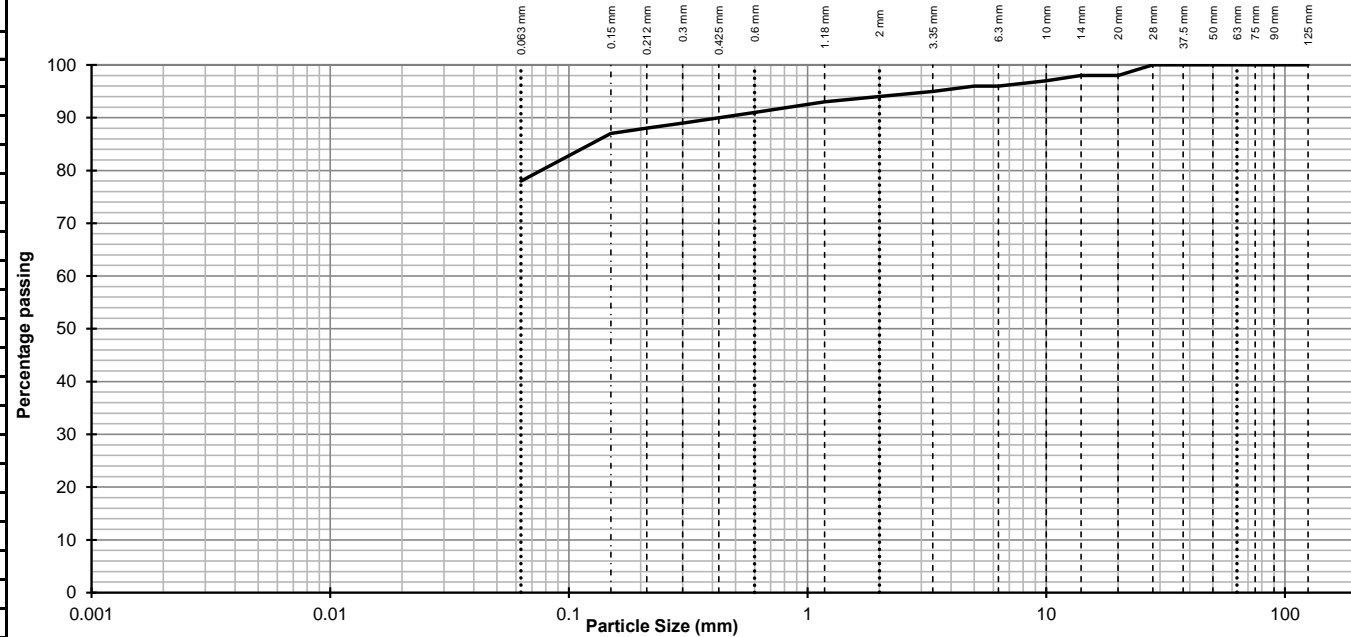
Sample size:

Source: Site

Lab ref.: 57629

Description: Yellow laminated sandy CLAY

| Sieve Size (mm) | % Passing |
|-----------------|-----------|
| 125 | 100 |
| 90 | 100 |
| 75 | 100 |
| 63 | 100 |
| 50 | 100 |
| 37.5 | 100 |
| 28 | 100 |
| 20 | 98 |
| 14 | 98 |
| 10 | 97 |
| 6.3 | 96 |
| 5 | 96 |
| 3.35 | 95 |
| 2 | 94 |
| 1.18 | 93 |
| 0.6 | 91 |
| 0.425 | 90 |
| 0.3 | 89 |
| 0.212 | 88 |
| 0.15 | 87 |
| 0.063 | 78 |



| Soil Fraction | Total Percentage |
|---------------|------------------|
| Cobbles | 0 |
| Gravel | 6 |
| Sand | 16 |
| Silt/Clay | 78 |

| | | | | | | | | | | |
|------|------|--------|--------|------|--------|--------|--------|--------|--------|---------|
| | Fine | Medium | Coarse | Fine | Medium | Coarse | Fine | Medium | Coarse | |
| CLAY | SILT | | | SAND | | | GRAVEL | | | COBBLES |

Comments: Test carried out in accordance with **BS1377: Part 2: 1990: Clause 9.2**
 Uniformity coefficient = 6 (For information only)
 The material tested complies with the grading requirements of 1A
 in accordance with Table 6/2 of the specification for Highway Works Series 600

Particle Size Distribution

Client: Broxtowe Borough Council

Sample ref: TP11-D3

Date Tested: 11-Apr-18

Sampled by: Kiwa CMT

Site: Eastwood Landfill

Sampling cert.: Available

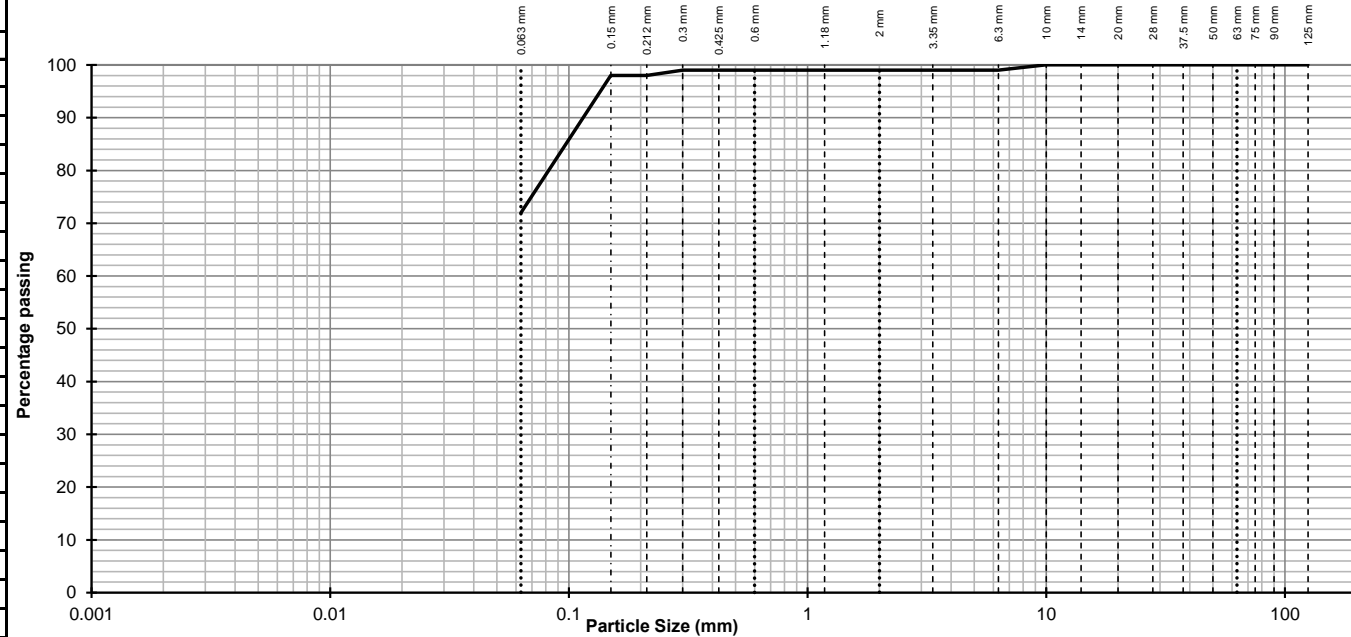
Sample size:

Source: Site

Lab ref.: 57629

Description: Yellow and grey slightly gravelly
CLAY with occasional coal

| Sieve Size (mm) | % Passing |
|-----------------|-----------|
| 125 | 100 |
| 90 | 100 |
| 75 | 100 |
| 63 | 100 |
| 50 | 100 |
| 37.5 | 100 |
| 28 | 100 |
| 20 | 100 |
| 14 | 100 |
| 10 | 100 |
| 6.3 | 99 |
| 5 | 99 |
| 3.35 | 99 |
| 2 | 99 |
| 1.18 | 99 |
| 0.6 | 99 |
| 0.425 | 99 |
| 0.3 | 99 |
| 0.212 | 98 |
| 0.15 | 98 |
| 0.063 | 72 |



| Soil Fraction | Total Percentage |
|---------------|------------------|
| Cobbles | 0 |
| Gravel | 1 |
| Sand | 27 |
| Silt/Clay | 72 |

| | | | | | | | | | | |
|------|------|--------|--------|------|--------|--------|--------|--------|--------|---------|
| CLAY | Fine | Medium | Coarse | Fine | Medium | Coarse | Fine | Medium | Coarse | COBBLES |
| | SILT | | | SAND | | | GRAVEL | | | |

Comments: Test carried out in accordance with **BS1377: Part 2: 1990: Clause 9.2**
 Uniformity coefficient = 6 (For information only)
 The material tested complies with the grading requirements of 1A
 in accordance with Table 6/2 of the specification for Highway Works Series 600

Particle Size Distribution

Client: Broxtowe Borough Council

Sample ref: TP12-D3

Date Tested: 11-Apr-18

Sampled by: Kiwa CMT

Site: Eastwood Landfill

Sampling cert.: Available

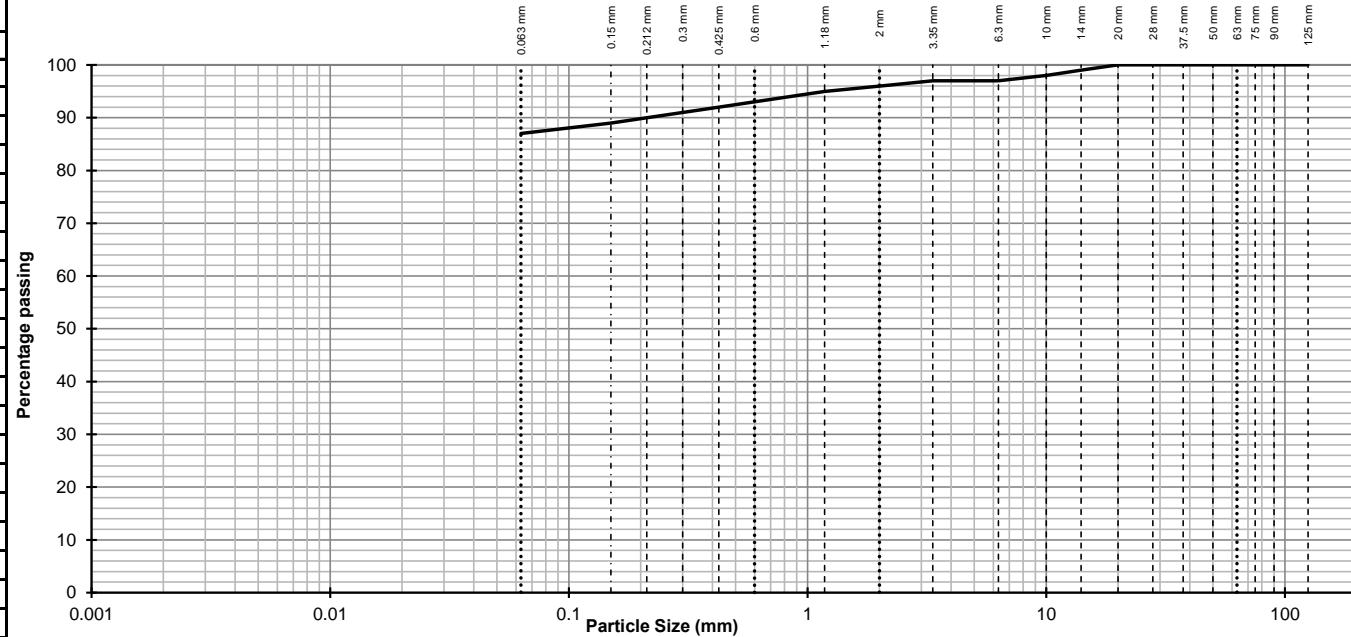
Sample size:

Source: Site

Lab ref.: 57629

Description: Yellow and grey CLAY

| Sieve Size (mm) | % Passing |
|-----------------|-----------|
| 125 | 100 |
| 90 | 100 |
| 75 | 100 |
| 63 | 100 |
| 50 | 100 |
| 37.5 | 100 |
| 28 | 100 |
| 20 | 100 |
| 14 | 99 |
| 10 | 98 |
| 6.3 | 97 |
| 5 | 97 |
| 3.35 | 97 |
| 2 | 96 |
| 1.18 | 95 |
| 0.6 | 93 |
| 0.425 | 92 |
| 0.3 | 91 |
| 0.212 | 90 |
| 0.15 | 89 |
| 0.063 | 87 |



| Soil Fraction | Total Percentage |
|---------------|------------------|
| Cobbles | 0 |
| Gravel | 4 |
| Sand | 9 |
| Silt/Clay | 87 |

| | | | | | | | | | | |
|------|------|--------|--------|------|--------|--------|--------|--------|--------|---------|
| CLAY | Fine | Medium | Coarse | Fine | Medium | Coarse | Fine | Medium | Coarse | COBBLES |
| | SILT | | | SAND | | | GRAVEL | | | |

Comments: Test carried out in accordance with **BS1377: Part 2: 1990: Clause 9.2**
 Uniformity coefficient = 6 (For information only)
 The material tested complies with the grading requirements of 1A
 in accordance with Table 6/2 of the specification for Highway Works Series 600

Particle Size Distribution

Client: Broxtowe Borough Council

Sample ref: TP13-D3

Date Tested: 11-Apr-18

Sampled by: Kiwa CMT

Site: Eastwood Landfill

Sampling cert.: Available

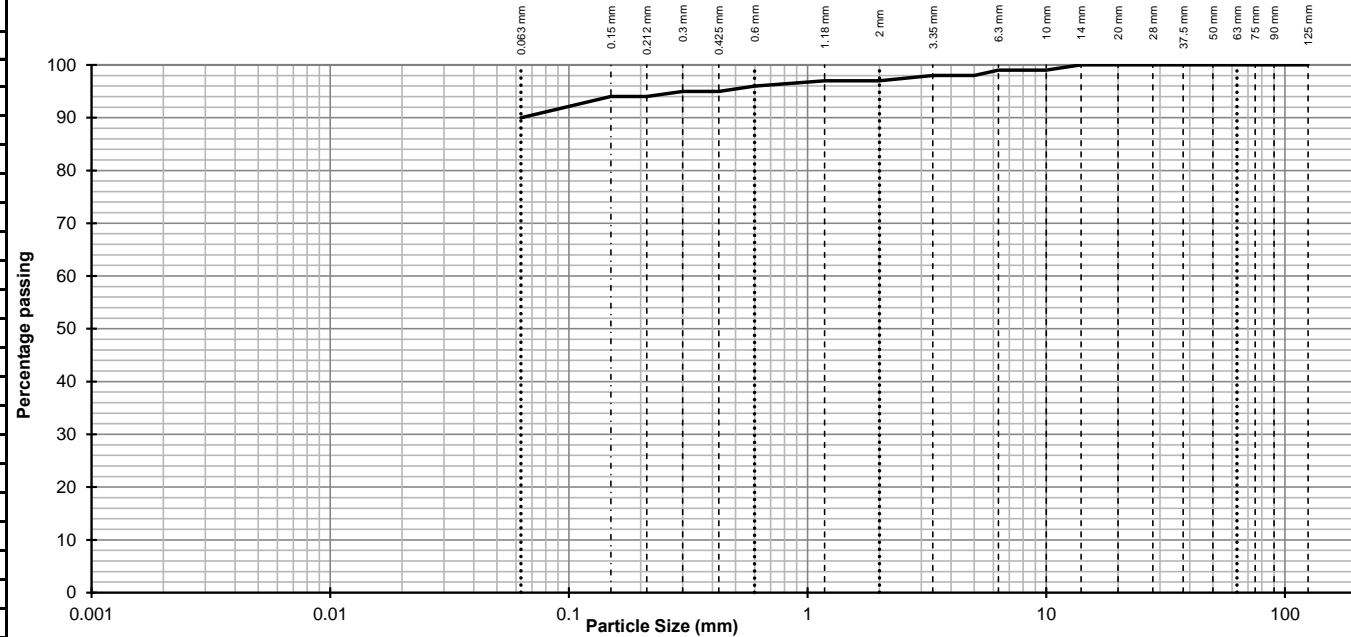
Sample size:

Source: Site

Lab ref.: 57629

Description: Yellow and grey CLAY

| Sieve Size (mm) | % Passing |
|-----------------|-----------|
| 125 | 100 |
| 90 | 100 |
| 75 | 100 |
| 63 | 100 |
| 50 | 100 |
| 37.5 | 100 |
| 28 | 100 |
| 20 | 100 |
| 14 | 100 |
| 10 | 99 |
| 6.3 | 99 |
| 5 | 98 |
| 3.35 | 98 |
| 2 | 97 |
| 1.18 | 97 |
| 0.6 | 96 |
| 0.425 | 95 |
| 0.3 | 95 |
| 0.212 | 94 |
| 0.15 | 94 |
| 0.063 | 90 |



| Soil Fraction | Total Percentage |
|---------------|------------------|
| Cobbles | 0 |
| Gravel | 3 |
| Sand | 7 |
| Silt/Clay | 90 |

| | | | | | | | | | | |
|------|------|--------|--------|------|--------|--------|--------|--------|--------|---------|
| CLAY | Fine | Medium | Coarse | Fine | Medium | Coarse | Fine | Medium | Coarse | COBBLES |
| | SILT | | | SAND | | | GRAVEL | | | |

Comments: Test carried out in accordance with **BS1377: Part 2: 1990: Clause 9.2**
 Uniformity coefficient = 6 (For information only)
 The material tested complies with the grading requirements of 1A
 in accordance with Table 6/2 of the specification for Highway Works Series 600

Particle Size Distribution

Client: Broxtowe Borough Council

Sample ref: TP13-D3

Date Tested: 11-Apr-18

Sampled by: Kiwa CMT

Site: Eastwood Landfill

Sampling cert.: Available

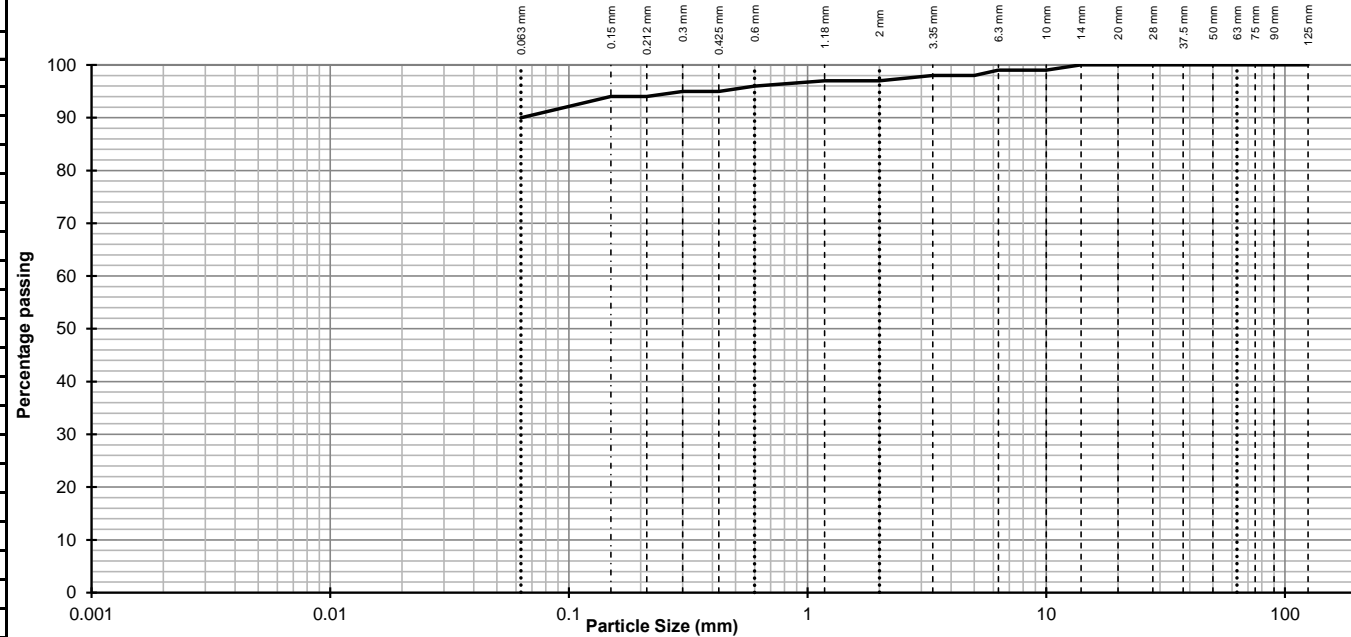
Sample size:

Source: Site

Lab ref.: 57629

Description: Yellow and grey CLAY

| Sieve Size (mm) | % Passing |
|-----------------|-----------|
| 125 | 100 |
| 90 | 100 |
| 75 | 100 |
| 63 | 100 |
| 50 | 100 |
| 37.5 | 100 |
| 28 | 100 |
| 20 | 100 |
| 14 | 100 |
| 10 | 99 |
| 6.3 | 99 |
| 5 | 98 |
| 3.35 | 98 |
| 2 | 97 |
| 1.18 | 97 |
| 0.6 | 96 |
| 0.425 | 95 |
| 0.3 | 95 |
| 0.212 | 94 |
| 0.15 | 94 |
| 0.063 | 90 |



| Soil Fraction | Total Percentage |
|---------------|------------------|
| Cobbles | 0 |
| Gravel | 3 |
| Sand | 7 |
| Silt/Clay | 90 |

| | | | | | | | | | | |
|------|------|--------|--------|------|--------|--------|--------|--------|--------|---------|
| CLAY | Fine | Medium | Coarse | Fine | Medium | Coarse | Fine | Medium | Coarse | COBBLES |
| | SILT | | | SAND | | | GRAVEL | | | |

Comments: Test carried out in accordance with **BS1377: Part 2: 1990: Clause 9.2**
 Uniformity coefficient = 6 (For information only)
 The material tested complies with the grading requirements of 1A
 in accordance with Table 6/2 of the specification for Highway Works Series 600

Particle Size Distribution

Client: Broxtowe Borough Council

Sample ref: TP14-D3

Date Tested: 11-Apr-18

Sampled by: Kiwa CMT

Site: Eastwood Landfill

Sampling cert.: Available

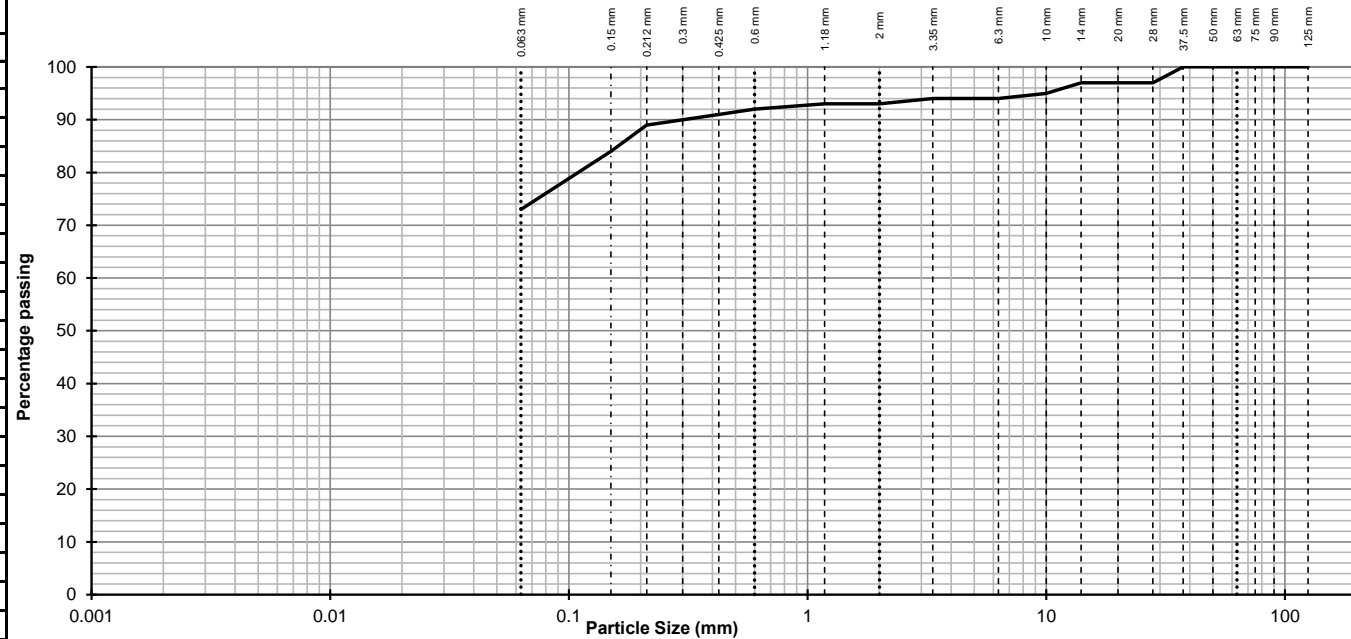
Sample size:

Source: Site

Lab ref.: 57629

Description: Grey and Yellow CLAY with lenses of black organic slightly silty CLAY

| Sieve Size (mm) | % Passing |
|-----------------|-----------|
| 125 | 100 |
| 90 | 100 |
| 75 | 100 |
| 63 | 100 |
| 50 | 100 |
| 37.5 | 100 |
| 28 | 97 |
| 20 | 97 |
| 14 | 97 |
| 10 | 95 |
| 6.3 | 94 |
| 5 | 94 |
| 3.35 | 94 |
| 2 | 93 |
| 1.18 | 93 |
| 0.6 | 92 |
| 0.425 | 91 |
| 0.3 | 90 |
| 0.212 | 89 |
| 0.15 | 84 |
| 0.063 | 73 |



| Soil Fraction | Total Percentage |
|---------------|------------------|
| Cobbles | 0 |
| Gravel | 7 |
| Sand | 20 |
| Silt/Clay | 73 |

| | | | | | | | | | | |
|------|------|--------|--------|------|--------|--------|--------|--------|--------|---------|
| CLAY | Fine | Medium | Coarse | Fine | Medium | Coarse | Fine | Medium | Coarse | COBBLES |
| | SILT | | | SAND | | | GRAVEL | | | |

Comments: Test carried out in accordance with **BS1377: Part 2: 1990: Clause 9.2**
 Uniformity coefficient = 6 (For information only)
 The material tested complies with the grading requirements of 1A
 in accordance with Table 6/2 of the specification for Highway Works Series 600

Particle Size Distribution

Client: Broxtowe Borough Council

Sample ref: TP15-D3

Date Tested: 11-Apr-18

Sampled by: Kiwa CMT

Site: Eastwood Landfill

Sampling cert.: Available

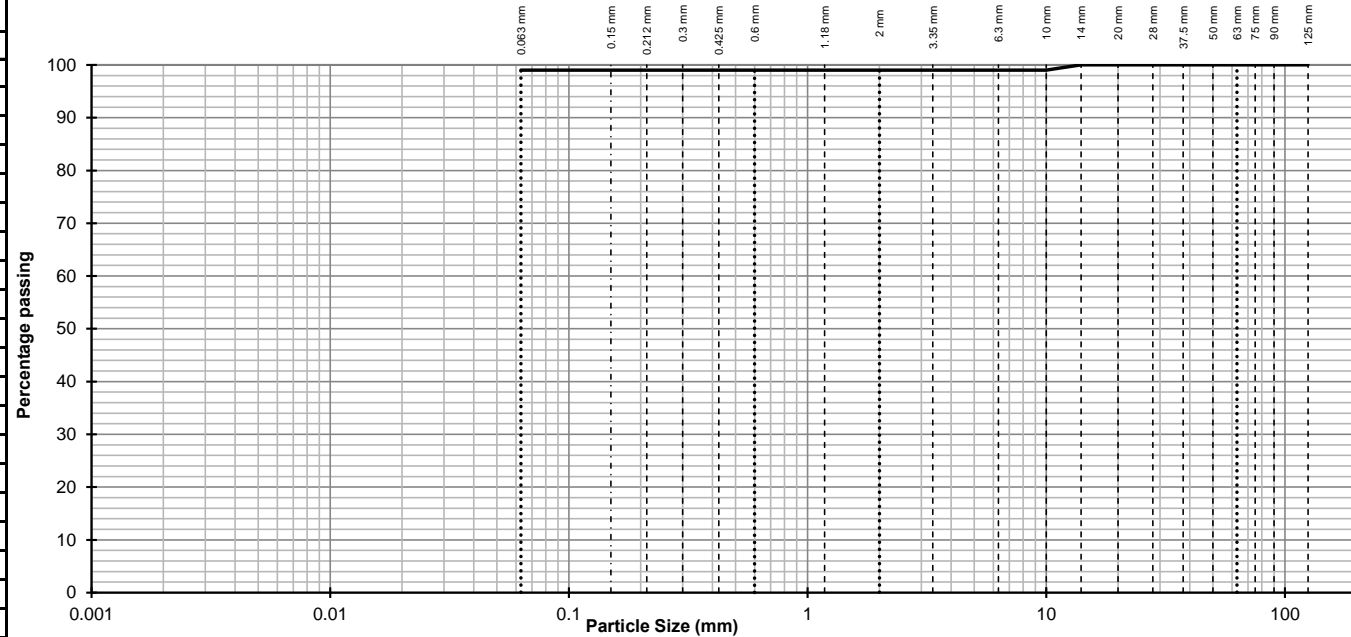
Sample size:

Source: Site

Lab ref.: 57629

Description: grey slightly gravelly CLAY

| Sieve Size (mm) | % Passing |
|-----------------|-----------|
| 125 | 100 |
| 90 | 100 |
| 75 | 100 |
| 63 | 100 |
| 50 | 100 |
| 37.5 | 100 |
| 28 | 100 |
| 20 | 100 |
| 14 | 100 |
| 10 | 99 |
| 6.3 | 99 |
| 5 | 99 |
| 3.35 | 99 |
| 2 | 99 |
| 1.18 | 99 |
| 0.6 | 99 |
| 0.425 | 99 |
| 0.3 | 99 |
| 0.212 | 99 |
| 0.15 | 99 |
| 0.063 | 99 |



| Soil Fraction | Total Percentage |
|---------------|------------------|
| Cobbles | 0 |
| Gravel | 1 |
| Sand | 0 |
| Silt/Clay | 99 |

| | | | | | | | | | | |
|------|------|--------|--------|------|--------|--------|--------|--------|--------|---------|
| CLAY | Fine | Medium | Coarse | Fine | Medium | Coarse | Fine | Medium | Coarse | COBBLES |
| | SILT | | | SAND | | | GRAVEL | | | |

Comments: Test carried out in accordance with **BS1377: Part 2: 1990: Clause 9.2**
 Uniformity coefficient = 6 (For information only)
 The material tested complies with the grading requirements of 1A
 in accordance with Table 6/2 of the specification for Highway Works Series 600

Particle Size Distribution

Client: Broxtowe Borough Council

Sample ref: TP18-D2

Date Tested: 11-Apr-18

Sampled by: Kiwa CMT

Site: Eastwood Landfill

Sampling cert.: Available

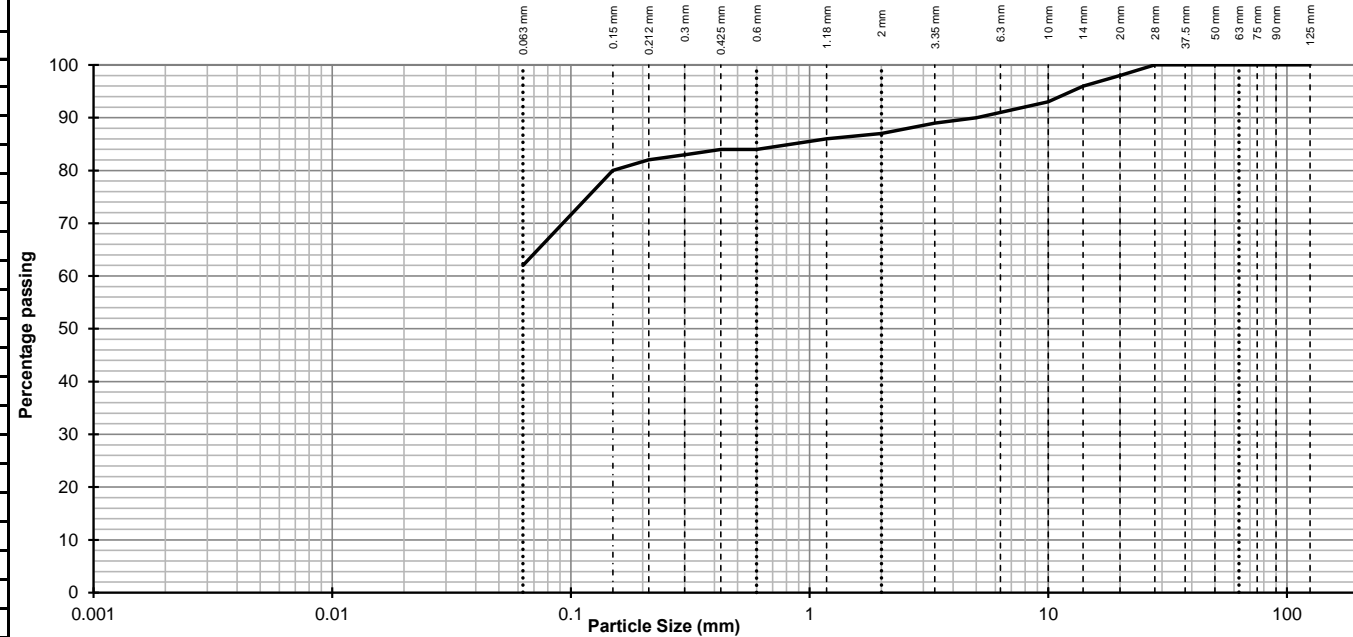
Sample size:

Source: Site

Lab ref.: 57629

Description: Yellow and grey CLAY
& silty CLAY

| Sieve Size (mm) | % Passing |
|-----------------|-----------|
| 125 | 100 |
| 90 | 100 |
| 75 | 100 |
| 63 | 100 |
| 50 | 100 |
| 37.5 | 100 |
| 28 | 100 |
| 20 | 98 |
| 14 | 96 |
| 10 | 93 |
| 6.3 | 91 |
| 5 | 90 |
| 3.35 | 89 |
| 2 | 87 |
| 1.18 | 86 |
| 0.6 | 84 |
| 0.425 | 84 |
| 0.3 | 83 |
| 0.212 | 82 |
| 0.15 | 80 |
| 0.063 | 62 |



| Soil Fraction | Total Percentage |
|---------------|------------------|
| Cobbles | 0 |
| Gravel | 13 |
| Sand | 25 |
| Silt/Clay | 62 |

| | | | | | | | | | | |
|------|------|--------|--------|------|--------|--------|--------|--------|--------|---------|
| CLAY | Fine | Medium | Coarse | Fine | Medium | Coarse | Fine | Medium | Coarse | COBBLES |
| | SILT | | | SAND | | | GRAVEL | | | |

Comments: Test carried out in accordance with **BS1377: Part 2: 1990: Clause 9.2**
 Uniformity coefficient = 6 (For information only)
 The material tested complies with the grading requirements of 1A
 in accordance with Table 6/2 of the specification for Highway Works Series 600

Particle Size Distribution

Client: Broxtowe Borough Council

Sample ref: TP19-D2

Date Tested: 11-Apr-18

Sampled by: Kiwa CMT

Site: Eastwood Landfill

Sampling cert.: Available

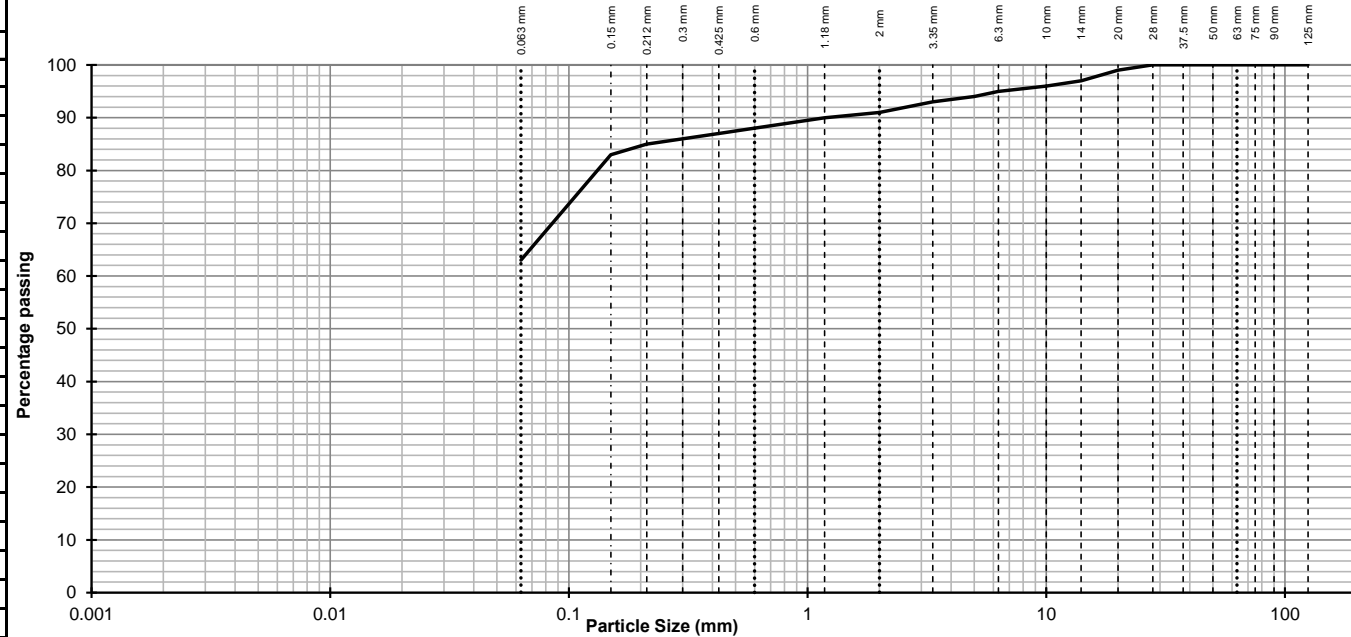
Sample size:

Source: Site

Lab ref.: 57629

Description: orange-brown Slightly sandy and silty
CLAY

| Sieve Size (mm) | % Passing |
|-----------------|-----------|
| 125 | 100 |
| 90 | 100 |
| 75 | 100 |
| 63 | 100 |
| 50 | 100 |
| 37.5 | 100 |
| 28 | 100 |
| 20 | 99 |
| 14 | 97 |
| 10 | 96 |
| 6.3 | 95 |
| 5 | 94 |
| 3.35 | 93 |
| 2 | 91 |
| 1.18 | 90 |
| 0.6 | 88 |
| 0.425 | 87 |
| 0.3 | 86 |
| 0.212 | 85 |
| 0.15 | 83 |
| 0.063 | 63 |



| Soil Fraction | Total Percentage |
|---------------|------------------|
| Cobbles | 0 |
| Gravel | 9 |
| Sand | 28 |
| Silt/Clay | 63 |

| | | | | | | | | | | |
|------|------|--------|--------|------|--------|--------|--------|--------|--------|---------|
| CLAY | Fine | Medium | Coarse | Fine | Medium | Coarse | Fine | Medium | Coarse | COBBLES |
| | SILT | | | SAND | | | GRAVEL | | | |

Comments: Test carried out in accordance with **BS1377: Part 2: 1990: Clause 9.2**
 Uniformity coefficient = 6 (For information only)
 The material tested complies with the grading requirements of 1A
 in accordance with Table 6/2 of the specification for Highway Works Series 600

Particle Size Distribution

Client: Broxtowe Borough Council

Sample ref: TP20-D3

Date Tested: 11-Apr-18

Sampled by: Kiwa CMT

Site: Eastwood Landfill

Sampling cert.: Available

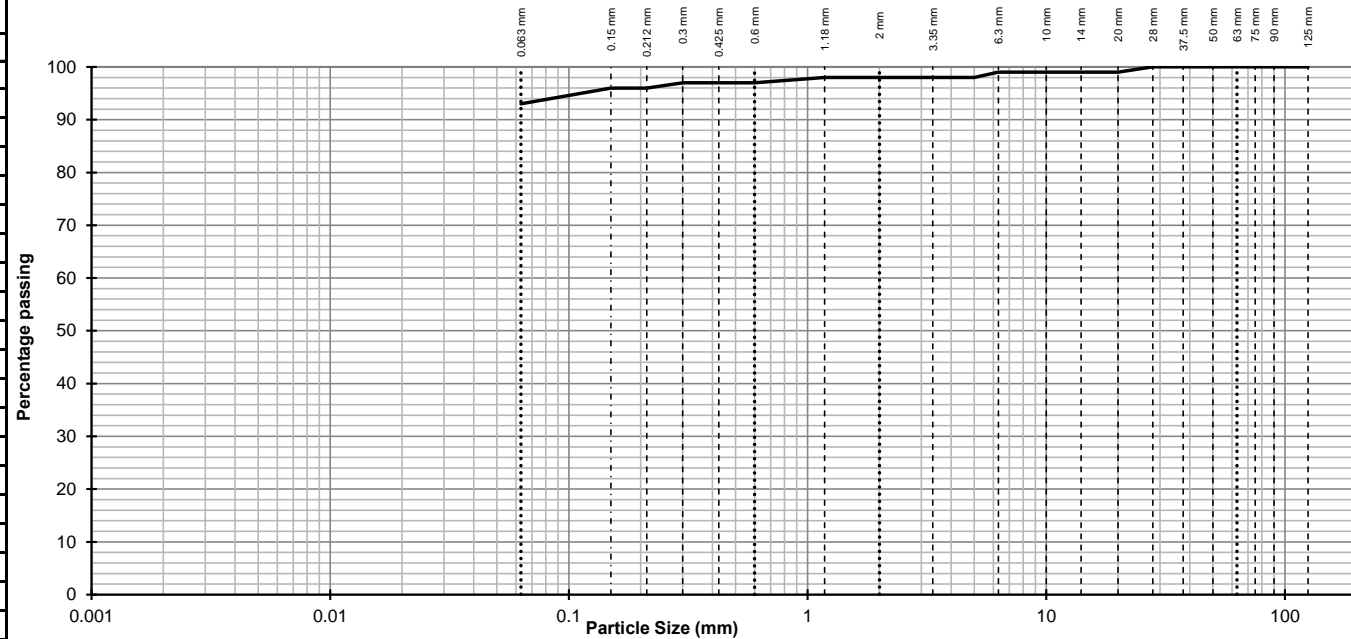
Sample size:

Source: Site

Lab ref.: 57629

Description: Grey and yellow layered and weathered
MUDSTONE

| Sieve Size (mm) | % Passing |
|-----------------|-----------|
| 125 | 100 |
| 90 | 100 |
| 75 | 100 |
| 63 | 100 |
| 50 | 100 |
| 37.5 | 100 |
| 28 | 100 |
| 20 | 99 |
| 14 | 99 |
| 10 | 99 |
| 6.3 | 99 |
| 5 | 98 |
| 3.35 | 98 |
| 2 | 98 |
| 1.18 | 98 |
| 0.6 | 97 |
| 0.425 | 97 |
| 0.3 | 97 |
| 0.212 | 96 |
| 0.15 | 96 |
| 0.063 | 93 |



| Soil Fraction | Total Percentage |
|---------------|------------------|
| Cobbles | 0 |
| Gravel | 2 |
| Sand | 5 |
| Silt/Clay | 93 |

| | | | | | | | | | | |
|------|------|--------|--------|------|--------|--------|--------|--------|--------|---------|
| CLAY | Fine | Medium | Coarse | Fine | Medium | Coarse | Fine | Medium | Coarse | COBBLES |
| | SILT | | | SAND | | | GRAVEL | | | |

Comments: Test carried out in accordance with **BS1377: Part 2: 1990: Clause 9.2**
 Uniformity coefficient = 6 (For information only)
 The material tested complies with the grading requirements of 1A
 in accordance with Table 6/2 of the specification for Highway Works Series 600

Particle Size Distribution

Client:

Broxtowe Borough Council

Sample ref:

TP21-D2

Date Tested:

11-Apr-18

Sampled by:

Kiwa CMT

Site:

Eastwood Landfill

Sampling cert.:

Available

Sample size:

Source:

Site

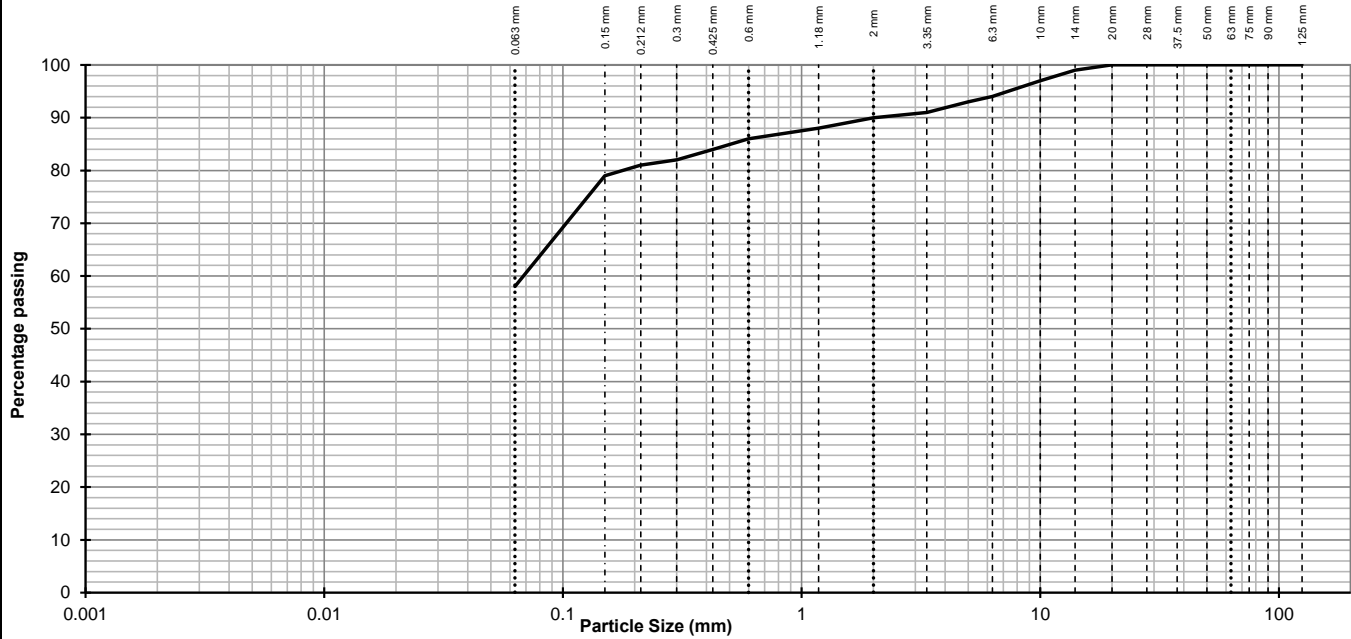
Lab ref.:

57629

Description:

Orangey brown slightly sandy silty CLAY

| Sieve Size (mm) | % Passing |
|-----------------|-----------|
| 125 | 100 |
| 90 | 100 |
| 75 | 100 |
| 63 | 100 |
| 50 | 100 |
| 37.5 | 100 |
| 28 | 100 |
| 20 | 100 |
| 14 | 99 |
| 10 | 97 |
| 6.3 | 94 |
| 5 | 93 |
| 3.35 | 91 |
| 2 | 90 |
| 1.18 | 88 |
| 0.6 | 86 |
| 0.425 | 84 |
| 0.3 | 82 |
| 0.212 | 81 |
| 0.15 | 79 |
| 0.063 | 58 |



| Soil Fraction | Total Percentage |
|---------------|------------------|
| Cobbles | 0 |
| Gravel | 10 |
| Sand | 32 |
| Silt/Clay | 58 |

| | | | | | | | | | | |
|------|------|--------|--------|------|--------|--------|--------|--------|--------|---------|
| CLAY | Fine | Medium | Coarse | Fine | Medium | Coarse | Fine | Medium | Coarse | COBBLES |
| | SILT | | | SAND | | | GRAVEL | | | |

Comments: Test carried out in accordance with **BS1377: Part 2: 1990: Clause 9.2**
Uniformity coefficient = 7 (For information only)
The material tested complies with the grading requirements of 1A
in accordance with Table 6/2 of the specification for Highway Works Series 600

Particle Size Distribution

Client: Broxtowe Borough Council

Sample ref: TP22-D2

Date Tested: 11-Apr-18

Sampled by: Kiwa CMT

Site: Eastwood Landfill

Sampling cert.: Available

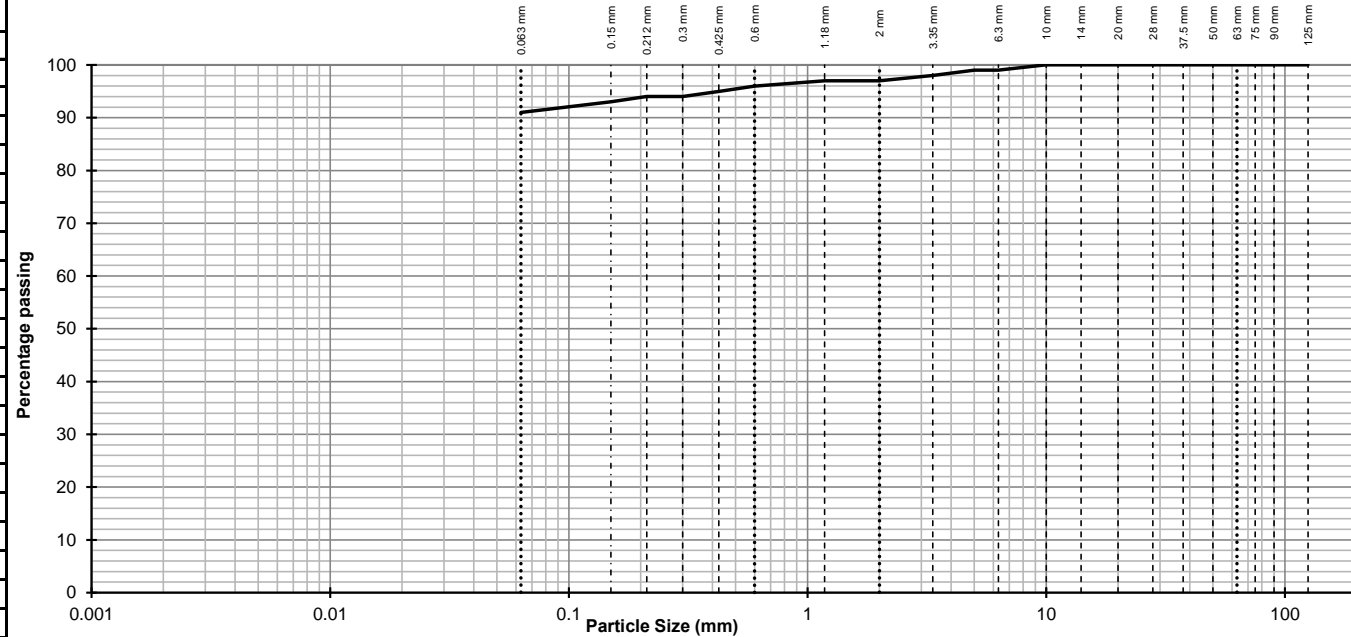
Sample size:

Source: Site

Lab ref.: 57629

Description: Yellow and grey CLAY

| Sieve Size (mm) | % Passing |
|-----------------|-----------|
| 125 | 100 |
| 90 | 100 |
| 75 | 100 |
| 63 | 100 |
| 50 | 100 |
| 37.5 | 100 |
| 28 | 100 |
| 20 | 100 |
| 14 | 100 |
| 10 | 100 |
| 6.3 | 99 |
| 5 | 99 |
| 3.35 | 98 |
| 2 | 97 |
| 1.18 | 97 |
| 0.6 | 96 |
| 0.425 | 95 |
| 0.3 | 94 |
| 0.212 | 94 |
| 0.15 | 93 |
| 0.063 | 91 |



| Soil Fraction | Total Percentage |
|---------------|------------------|
| Cobbles | 0 |
| Gravel | 3 |
| Sand | 6 |
| Silt/Clay | 91 |

| | | | | | | | | | | |
|------|------|--------|--------|------|--------|--------|--------|--------|--------|---------|
| CLAY | Fine | Medium | Coarse | Fine | Medium | Coarse | Fine | Medium | Coarse | COBBLES |
| | SILT | | | SAND | | | GRAVEL | | | |

Comments: Test carried out in accordance with **BS1377: Part 2: 1990: Clause 9.2**
 Uniformity coefficient = 6 (For information only)
 The material tested complies with the grading requirements of 1A
 in accordance with Table 6/2 of the specification for Highway Works Series 600

Particle Size Distribution

Client: Broxtowe Borough Council

Sample ref: TP24-D3

Date Tested: 11-Apr-18

Sampled by: Kiwa CMT

Site: Eastwood Landfill

Sampling cert.: Available

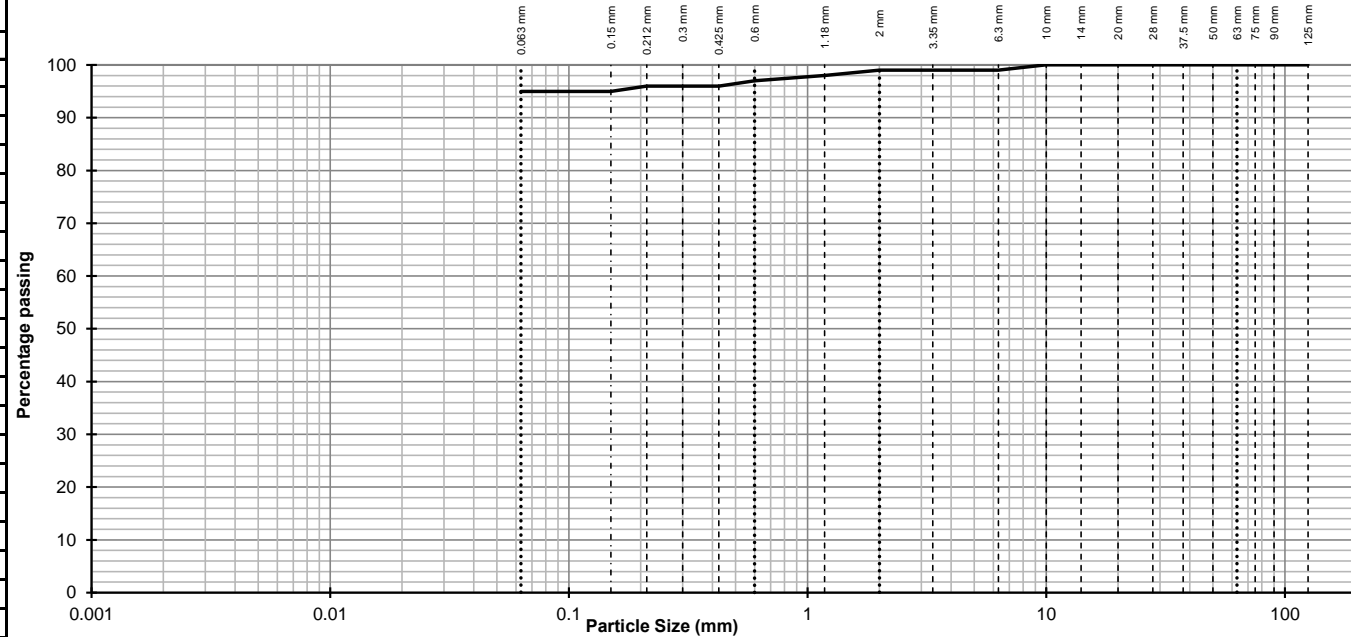
Sample size:

Source: Site

Lab ref.: 57629

Description: Grey laminated CLAY

| Sieve Size (mm) | % Passing |
|-----------------|-----------|
| 125 | 100 |
| 90 | 100 |
| 75 | 100 |
| 63 | 100 |
| 50 | 100 |
| 37.5 | 100 |
| 28 | 100 |
| 20 | 100 |
| 14 | 100 |
| 10 | 100 |
| 6.3 | 99 |
| 5 | 99 |
| 3.35 | 99 |
| 2 | 99 |
| 1.18 | 98 |
| 0.6 | 97 |
| 0.425 | 96 |
| 0.3 | 96 |
| 0.212 | 96 |
| 0.15 | 95 |
| 0.063 | 95 |



| Soil Fraction | Total Percentage |
|---------------|------------------|
| Cobbles | 0 |
| Gravel | 1 |
| Sand | 4 |
| Silt/Clay | 95 |

| | | | | | | | | | | |
|------|------|--------|--------|------|--------|--------|--------|--------|--------|---------|
| CLAY | Fine | Medium | Coarse | Fine | Medium | Coarse | Fine | Medium | Coarse | COBBLES |
| | SILT | | | SAND | | | GRAVEL | | | |

Comments: Test carried out in accordance with **BS1377: Part 2: 1990: Clause 9.2**
 Uniformity coefficient = 6 (For information only)
 The material tested complies with the grading requirements of 1A
 in accordance with Table 6/2 of the specification for Highway Works Series 600

Appendix Q

Interpretive Geotechnical Report



**MICHAEL EVANS
& ASSOCIATES LTD**

Civil and Structural Engineers
& Design Consultants

34 Station Road, Draycott, Derbyshire DE72 3QB
Tel: 01332 871840 Fax: 01332 871841 www.mevans.co.uk

Interpretive S. I. Report

In respect of

Eastwood Landfill

Nottinghamshire

Client

KIWA CMT TESTING LIMITED

Ref. 57629

Job No. 18-218

May 2018

| | | |
|-------------|-----------|-------------|
| | | |
| 1 | 30-May-18 | First issue |
| Issue no | Date | Description |
| COPYRIGHT © | | |



**MICHAEL EVANS
& ASSOCIATES LTD**
Civil and Structural Engineers
& Design Consultants

Tel. 01332 871840
Fax. 01332 871841

Date.
May 2018

Project No.

18-218

Sheet No.

R1

Project.

KIWA CMT TESTING LIMITED
Eastwood Landfill, Nottinghamshire

By.

KL

Checked.

NH

Document Ref.

57629

Thank you for your site investigation logs and we provide the following brief report:

1 GENERAL DESCRIPTION

- 1.01 From Google Earth the site is widespread in residential area, with open air and motorway to the south (approximate postcode NG16 2BY).

It appears there are trees/ shrubs within and to the perimeter of the site.



2 PROPOSALS

- 2.01 We understand it is proposed to develop the site for residential use.
- 2.02 We have not been supplied with likely foundation loads, but assume foundation line loads, (including suspended ground floor construction), will probably be in the order of 60kN/m run.

3 INITIAL STUDY

- 3.01 From the British Geological Survey's website, there are a number of archive borehole logs located in vicinity. A copy of the nearest one is attached in Appendix 1.
SK44 NE87 locates at some 30m to the south site boundary. The log recorded topsoil to about 0.4m below ground level, over mottled clay with fragments of shale and shaly sandstone up to 2.33m b.g.l., overlying weathered mudstone with siltstone up to about 3.31m b.g.l., bearing upon siltstone and mudstone with coal at about 9.0m to 9.1m b.g.l.. The maximum proved depth was about 13.0m b.g.l. No water was met.
- 3.02 For the purposes of foundation design, we have not carried out coal mining risk assessment, contamination or environment check.



**MICHAEL EVANS
& ASSOCIATES LTD**
Civil and Structural Engineers
& Design Consultants

Tel. 01332 871840
Fax. 01332 871841

Date.
May 2018

Project No.

18-218

Sheet No.

R2

Project.

KIWA CMT TESTING LIMITED
Eastwood Landfill, Nottinghamshire

By.

KL

Checked.

NH

Document Ref.

57629

4 SITE INVESTIGATION

- 4.01 Twenty-one boreholes (BH1 to BH15, BH17 to BH22) were sunk and twenty- four trial pits (TP1 to TP24) were dug. Indicative locations and a copy of their logs are attached in Appendix 2.
- 4.02 BH1: shallow topsoil, overlying clay up to 1.9m b.g.l., over coal up to about 3.0m b.g.l., then mudstone proved to 4.25m b.g.l. The log was noted as dry.
- BH2: topsoil up to 0.5m b.g.l., overlying stiff becoming very stiff clay with weathered mudstone up to 3.0m b.g.l., bearing upon mudstone. The maximum proved depth was 4.25m b.g.l. No water was recorded.
- BH3: top soil up to 0.4m b.g.l., then very stiff clay up to 1.2m b.g.l., over mudstone with bands of ironstone up to about 2.8m b.g.l., over coal up to about 3.8m b.g.l. The soils continued with mudstone, proved to 4.2m b.g.l.
- BH4: top soil up to 0.4m b.g.l., over very stiff clay with mudstone up to 2.3m b.g.l., over mudstone up to 3.8m b.g.l., overlying coal which was proved to about 4.8m b.g.l. Water was struck at about 1.7m b.g.l. and rose to about 1.5m b.g.l.
- BH5: top soil up to 0.4m b.g.l., overlying very stiff clay up to about 1.8m b.g.l., over very stiff clay with weathered mudstone up to about 2.7m b.g.l., then coal up to about 3.5m b.g.l., bearing upon mudstone. The maximum depth proved was about 4.3m b.g.l. Water was struck at about 3m b.g.l. then rose to 2.8m b.g.l.
- BH6: shallow topsoil, over reworked clay with coal up to about 1.0m b.g.l., overlying very stiff clay up to 1.4m b.g.l., then mudstone with ironstone. The maximum depth proved was about 4.25m b.g.l. The log was recorded as dry.
- BH7: shallow topsoil, over very stiff clay up to 1.2m b.g.l., over very stiff clay with mudstone and thin bands of coal and shale up to about 2.4m b.g.l., over mudstone, proved to 4.2m b.g.l.. No water was recorded.
- BH8: shallow topsoil, overlying very stiff clay up to 1.7m b.g.l., then very stiff clay with weathered mudstone up to about 2.6m b.g.l., over mudstone with bands of ironstone, proved to about 4.3m b.g.l. No water was struck.
- BH9: shallow topsoil, over very stiff clay and fine grained sandstone up to about 1.7m b.g.l., over weathered siltstone, proved to 3.3m b.g.l. The log was noted as dry.
- BH10: shallow topsoil, overlying very stiff sandy clay with fine grained sandstone up to about 1.7m b.g.l., overlying weathered mudstone, with presence of bands of ironstone from 2.5m b.g.l. on. The maximum proved depth was 4.3m b.g.l. Water was struck at about 3.45m b.g.l. and rose to about 3.2 m b.g.l.
- BH11: topsoil up to 0.5m b.g.l., over reworked clay up to about 1.0m b.g.l., overlying very stiff clay with weathered mudstone up to about 1.9m b.g.l., overlying weathered siltstone, proved to about 3.25m b.g.l. The borehole remained dry.
- BH12: topsoil up to about 0.5m b.g.l., over possibly reworked clay to about 0.8m b.g.l., over very stiff sandy clay with sandstone up to about 1.8m b.g.l., then mudstone, with a layer of coal and shale from 2.4m to 2.6m b.g.l.. The maximum proved depth was about 3.7m b.g.l. Water was struck at about 2.4m b.g.l., then rose to about 2.3m b.g.l.
- BH13: topsoil up to about 0.6m b.g.l., overlying mudstone up to 1.6m b.g.l., over mudstone & shale up to 4.6m b.g.l., bearing upon siltstone, proved to about 5.25m b.g.l. Water was struck at about 1.9m b.g.l. and rose to about 1.8m b.g.l.



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May 2018

Project No.

18-218

Sheet No.

R3

Project.

KIWA CMT TESTING LIMITED
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Document Ref.

57629

BH14: shallow topsoil, over very stiff clay up to 1.3m b.g.l., over weathered mudstone up to 1.8m b.g.l. The soils continue with mudstone, proved to about 3.6m b.g.l. The borehole remained dry.

BH15: topsoil to 0.4m b.g.l., overlying stiff clay up to 1.4m b.g.l., over mudstone to 3.6m b.g.l., then coal. The maximum proved depth was 4.2m b.g.l. The borehole was recorded dry.

BH17: shallow topsoil, stiff clay with shale & coal bands up to 1.8m b.g.l., bearing upon mudstone with bands of ironstone, proved to about 4.3m b.g.l. No water was recorded.

BH18: shallow topsoil, overlying very stiff clay to about 2.6m b.g.l. with shale & coal presence from 1.6m b.g.l., over mudstone, proved to about 4.25m b.g.l. No water was revealed.

BH19: shallow topsoil followed by very stiff clay to about 2.4m b.g.l. with presence of weathered mudstone from 1.6m b.g.l., overlying mudstone to about 4.4m b.g.l. The log was noted as dry.

BH20: topsoil up to about 0.4m b.g.l., over fine grained sandstone & sand up to 1.1m b.g.l., bearing upon weathered siltstone with ironstone. The maximum proved depth was 3.2m b.g.l. No water was recorded.

BH21: topsoil up to about 0.5m b.g.l., over stiff sandy clay with sandstone to about 1.5m b.g.l., overlying mudstone proved to about 3.25m b.g.l. The borehole remained dry.

BH22: shallow topsoil over a thin layer of mudstone & shale, over stiff clay to about 1.1m b.g.l., over mudstone up to about 2.4m b.g.l., overlying coal & mudstone to about 2.8m b.g.l.. The soils continued with mudstone, proved to about 3.5m b.g.l.. The borehole was noted as dry.

4.03 TP1: slight silty slightly sandy clay loam to 0.4m b.g.l., over clay up to about 2.5m b.g.l., overlying weathered mudstone, proved to about 2.7m b.g.l.

TP2: shallow slightly silty slight sandy clay loam, overlying clay to about 1.6m b.g.l., overlying coal to about 1.9m b.g.l., bearing upon weathered mudstone. The maximum proved depth was about 2.5m b.g.l.

TP3: shallow slightly silty slight sandy clay loam, over clay up to about 2.0m, over a thin beam of weathered mudstone then fine sandstone, proved to about 2.4m b.g.l.

TP4: shallow slightly silty slight sandy clay loam, over clay to about 1.8m b.g.l., overlying coal to about 2.3m b.g.l., over weathered mudstone up to about 2.6m b.g.l. then fine sandstone. The maximum proved depth was about 2.7m b.g.l.

TP5: shallow slightly silty slightly sandy clay loam, then slightly gravelly clay & gravels of weathered sandstone to about 1.5m b.g.l., bearing upon gravelly clay & gravels of weathered sandstone, proved to about 2.4m b.g.l.

TP6: slightly silty slightly sandy clay loam to 0.4m b.g.l., over clay up to about 0.9m b.g.l., bearing upon weathered sandstone. The maximum proved depth was about 2.0m b.g.l.

TP7: shallow slightly silty slightly sandy clay loam, over sandy clay up to about 1.2m b.g.l. The soils continued with weathered sandstone, proved to about 2.1m b.g.l.

TP8: shallow slightly silty sandy clay loam, overlying slightly sandy clay to about 1.6m b.g.l., overlying weathered mudstone, proved to about 2.1m b.g.l.

TP9: shallow slightly silty sandy clay loam, over sandy clay to about 1.0m b.g.l., bearing upon weathered sandstone, proved to about 1.75m b.g.l.



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May 2018

Project No.

18-218

Sheet No.

R4

Project.

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By.

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NH

Document Ref.

57629

TP10: slightly silty sandy clay loam up to about 0.4m b.g.l., overlying weathered sandstone up about 0.8m b.g.l., then laminated sandy clay. The maximum proved depth was 2.2m b.g.l.

TP11: shallow slightly silty & slightly sandy clay loam, then sandy clay to about 0.9m b.g.l. The soils continued with slightly gravelly clay with occasional coal, proved to about 2.0m b.g.l.

TP12: shallow slightly silty & slightly sandy clay loam, over silty & sandy clay to about 0.75m b.g.l., bearing upon laminated clay. The maximum proved depth was about 2.0m b.g.l.

TP13: shallow slightly silty & slightly sandy clay loam, overlying slightly sandy clay to about 0.65m b.g.l., then clay to about 2.0m b.g.l., over slightly gravelly mottled clay & gravels of mudstone, proved to about 2.1m b.g.l.

TP14: shallow slightly silty sandy loam with occasional brick, pottery & coal, overlying slightly silty clay to about 1.1m b.g.l., over clay with lenses of black organic slightly silty clay up to about 1.7m b.g.l., overlying weathered mudstone, proved to about 2.1m b.g.l.

TP15: shallow slightly silty sandy clay loam with occasional brick & coal, over clay up to about 0.8m b.g.l., over slightly gravelly clay to about 1.5m b.g.l., overlying weathered mudstone, proved to about 1.65m b.g.l.

TP16: shallow slightly silty sandy clay loam with occasional coal & glass, over clay up to about 1.05m b.g.l. The soils continued with weathered mudstone. The maximum proved depth was 1.8m b.g.l.

TP17: shallow slightly sandy & very silty clay loam, over weathered mudstone up to about 0.75m b.g.l., overlying weathered sandstone, proved to about 1.9m b.g.l.

TP18: slightly silty sandy clay loam with occasional coal, brick & pottery to about 0.5m b.g.l., overlying clay to about 1.6m b.g.l., bearing upon weathered mudstone, proved to about 2.0m b.g.l.

TP19: shallow slightly silty sandy clay loam with occasional coal & pottery, then slightly sandy & silty clay to about 0.8m b.g.l., overlying weathered sandstone to about 1.6m b.g.l., over sandstone, proved to about 2.2m b.g.l.

TP20: shallow slightly silty sandy clay loam with occasional coal & pottery, overlying slightly silty clay to about 1.2m b.g.l., overlying layered & weathered mudstone up to about 1.9m b.g.l., over sandstone. The maximum proved depth was about 2.3m b.g.l.

TP21: shallow slightly silty sandy clay loam with occasional coal & brick, over slightly sandy silty clay to about 1.4m b.g.l.. The soils continued with weathered sandstone, proved to about 2.05m b.g.l..

TP22: shallow slightly silty slightly sandy clay loam, over clay to about 1.05m b.g.l., bearing upon weathered mudstone. The maximum proved depth was about 2.8m b.g.l.

TP23: shallow slightly silty sandy clay loam, overlying clay up to 1.0m b.g.l., over laminated clay to about 1.9m b.g.l., overlying a thin layer of coal, then weathered mudstone, proved to about 2.5m b.g.l.

TP24: shallow slightly silty sandy clay loam, over clay to about 0.6m b.g.l., overlying laminated clay up to about 2.2m b.g.l., then coal to about 2.4m b.g.l., over weathered mudstone, proved to about 2.5m b.g.l.

All trial pits remained dry.



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Date. May 2018

Project No.

18-218

Sheet No.

R5

Project.

KIWA CMT TESTING LIMITED
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By.

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Document Ref.

57629

4.04 SPT readings were taken and are summarised as follows:

| Depth | SPT 'N' values | | | | | | | |
|--------------|----------------|---------|---------|---------|---------|---------|---------|---------|
| | BH1 | BH2 | BH3 | BH4 | BH5 | BH6 | BH7 | BH8 |
| 1.00 to 1.95 | 16 | 15 | 17 | 17 | 18 | 18 | 19 | 18 |
| 2.00 to 2.95 | 19 | 31 | 32 | - | 23 | 28 | 38 | 38 |
| 3.00 to 3.95 | 76 | 64/225* | 64/150* | 35 | 33 | 67/150* | 63/150* | 62/150* |
| 4.00 to 4.55 | 65/150* | 66/150* | 68/150* | 66/150* | 75/150* | 69/150* | 73/125* | 98/225* |
| 4.60 to 4.80 | end | end | end | 66/125* | end | end | end | end |
| | | | | end | | | | |

| Depth | SPT 'N' values | | | | | | | |
|--------------|----------------|---------|---------|---------|---------|----------|---------|---------|
| | BH9 | BH10 | BH11 | BH12 | BH13 | BH14 | BH15 | BH17 |
| 1.00 to 1.95 | 21 | 20 | 21 | 19 | 14 | 23 | 14 | 14 |
| 2.00 to 2.95 | 36 | 20 | 68/225* | 70 | 24 | 34 | 33 | 39 |
| 3.00 to 3.30 | 95/225* | - | 72/150* | - | - | 99/225* | - | - |
| 3.00 to 3.45 | - | - | - | 68/150* | - | - | - | - |
| 3.00 to 3.95 | - | 43 | - | - | 28 | - | 64/150* | 65/225* |
| 3.30 to 3.60 | - | - | end | - | - | 100/225* | - | - |
| 3.50 to 3.70 | end | - | | 71/150* | - | - | - | - |
| 4.00 to 4.30 | | 69/150* | | end | - | end | 59/125* | 88/225* |
| 4.00 to 4.95 | | - | | | 39 | | - | - |
| 5.00 to 5.25 | | end | | | 75/150* | | end | end |
| | | | | | end | | | |

| Depth | SPT 'N' values | | | | |
|--------------|----------------|---------|---------|---------|----------|
| | BH18 | BH19 | BH20 | BH21 | BH22 |
| 1.00 to 1.95 | 19 | 23 | 27 | 14 | 14 |
| 2.00 to 2.95 | 36 | 26 | 64 | 44 | 28 |
| 3.00 to 3.45 | - | - | 73/125* | 73/150* | 101/225* |
| 3.00 to 3.95 | 67 | 40 | end | end | - |
| 3.50 | - | - | | | 41/75* |
| 4.00 to 4.40 | 68/150* | 69/225* | | | end |
| | end | end | | | |

* Number of blows for penetration(mm)

4.05 Samples of subsoils have been tested to determine their plasticity index and results are shown in Appendix 3. (Modified plasticity index ranges from 1% to 41%, the majority lies between 10% and 40%)

4.06 Samples of subsoils have also been tested to determine their pH values and sulfate levels. Results are shown in Appendix 3.



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May 2018

Project No.

18-218

Sheet No.

R6

Project.

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Document Ref.

57629

5 COMMENTS / RECOMMENDATIONS

- 5.01 Due to the presence of coal in a few boreholes, we suggest that a mining report and risk assessment be prepared, if not already carried out.
- 5.02 Subject to the results of item 5.01, we are of the opinion that the stiff clay would be a suitable formation for traditional strip / trench foundations.
- 5.03 For design purposes we suggest an allowable net increase in bearing pressure of 125kN/m^2 at a minimum depth of 1.0m below ground level.
- 5.04 We note from Google Earth that there appear to be a number of trees and/or shrubs within/ to perimeter of the site. Whilst the clay subsoils have been tested and the modified plasticity index were mostly less than 40%, of which suggested the sub-soils in general be medium volume change potential. We recommend that foundation depths are checked and increased if necessary, against the NHBC's guideline for building near trees.
- 5.05 We suggest suspended ground floor slabs be adopted due to the presence of topsoil and clay loam in depth of up to about 600mm.
- 5.06 We are aware that the levels of sulfate and pH values of the soil samples suggest the subsoils at some locations are aggressive to buried concrete. Due to the diverse results across the site, we suggest using Grade DS-2 and AC-3 for foundation design.

We trust the above meets your present requirements, but please do not hesitate to contact us if you wish to discuss any aspect.

Kris Li BEng (Hons)
Michael Evans & Associates Ltd



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Date.
May 2018

Project No.

18-218

Sheet No.

R1

Project.

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Document Ref.

57629

Thank you for your site investigation logs and we provide the following brief report:

1 GENERAL DESCRIPTION

- 1.01 From Google Earth the site is widespread in residential area, with open air and motorway to the south (approximate postcode NG16 2BY).

It appears there are trees/ shrubs within and to the perimeter of the site.



2 PROPOSALS

- 2.01 We understand it is proposed to develop the site for residential use.
- 2.02 We have not been supplied with likely foundation loads, but assume foundation line loads, (including suspended ground floor construction), will probably be in the order of 60kN/m run.

3 INITIAL STUDY

- 3.01 From the British Geological Survey's website, there are a number of archive borehole logs located in vicinity. A copy of the nearest one is attached in Appendix 1.
SK44 NE87 locates at some 30m to the south site boundary. The log recorded topsoil to about 0.4m below ground level, over mottled clay with fragments of shale and shaly sandstone up to 2.33m b.g.l., overlying weathered mudstone with siltstone up to about 3.31m b.g.l., bearing upon siltstone and mudstone with coal at about 9.0m to 9.1m b.g.l.. The maximum proved depth was about 13.0m b.g.l. No water was met.
- 3.02 For the purposes of foundation design, we have not carried out coal mining risk assessment, contamination or environment check.



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May 2018

Project No.

18-218

Sheet No.

R2

Project.

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57629

4 SITE INVESTIGATION

- 4.01 Twenty-one boreholes (BH1 to BH15, BH17 to BH22) were sunk and twenty- four trial pits (TP1 to TP24) were dug. Indicative locations and a copy of their logs are attached in Appendix 2.
- 4.02 BH1: shallow topsoil, overlying clay up to 1.9m b.g.l., over coal up to about 3.0m b.g.l., then mudstone proved to 4.25m b.g.l. The log was noted as dry.
- BH2: topsoil up to 0.5m b.g.l., overlying stiff becoming very stiff clay with weathered mudstone up to 3.0m b.g.l., bearing upon mudstone. The maximum proved depth was 4.25m b.g.l. No water was recorded.
- BH3: top soil up to 0.4m b.g.l., then very stiff clay up to 1.2m b.g.l., over mudstone with bands of ironstone up to about 2.8m b.g.l., over coal up to about 3.8m b.g.l. The soils continued with mudstone, proved to 4.2m b.g.l.
- BH4: top soil up to 0.4m b.g.l., over very stiff clay with mudstone up to 2.3m b.g.l., over mudstone up to 3.8m b.g.l., overlying coal which was proved to about 4.8m b.g.l. Water was struck at about 1.7m b.g.l. and rose to about 1.5m b.g.l.
- BH5: top soil up to 0.4m b.g.l., overlying very stiff clay up to about 1.8m b.g.l., over very stiff clay with weathered mudstone up to about 2.7m b.g.l., then coal up to about 3.5m b.g.l., bearing upon mudstone. The maximum depth proved was about 4.3m b.g.l. Water was struck at about 3m b.g.l. then rose to 2.8m b.g.l.
- BH6: shallow topsoil, over reworked clay with coal up to about 1.0m b.g.l., overlying very stiff clay up to 1.4m b.g.l., then mudstone with ironstone. The maximum depth proved was about 4.25m b.g.l. The log was recorded as dry.
- BH7: shallow topsoil, over very stiff clay up to 1.2m b.g.l., over very stiff clay with mudstone and thin bands of coal and shale up to about 2.4m b.g.l., over mudstone, proved to 4.2m b.g.l.. No water was recorded.
- BH8: shallow topsoil, overlying very stiff clay up to 1.7m b.g.l., then very stiff clay with weathered mudstone up to about 2.6m b.g.l., over mudstone with bands of ironstone, proved to about 4.3m b.g.l. No water was struck.
- BH9: shallow topsoil, over very stiff clay and fine grained sandstone up to about 1.7m b.g.l., over weathered siltstone, proved to 3.3m b.g.l. The log was noted as dry.
- BH10: shallow topsoil, overlying very stiff sandy clay with fine grained sandstone up to about 1.7m b.g.l., overlying weathered mudstone, with presence of bands of ironstone from 2.5m b.g.l. on. The maximum proved depth was 4.3m b.g.l. Water was struck at about 3.45m b.g.l. and rose to about 3.2 m b.g.l.
- BH11: topsoil up to 0.5m b.g.l., over reworked clay up to about 1.0m b.g.l., overlying very stiff clay with weathered mudstone up to about 1.9m b.g.l., overlying weathered siltstone, proved to about 3.25m b.g.l. The borehole remained dry.
- BH12: topsoil up to about 0.5m b.g.l., over possibly reworked clay to about 0.8m b.g.l., over very stiff sandy clay with sandstone up to about 1.8m b.g.l., then mudstone, with a layer of coal and shale from 2.4m to 2.6m b.g.l.. The maximum proved depth was about 3.7m b.g.l. Water was struck at about 2.4m b.g.l., then rose to about 2.3m b.g.l.
- BH13: topsoil up to about 0.6m b.g.l., overlying mudstone up to 1.6m b.g.l., over mudstone & shale up to 4.6m b.g.l., bearing upon siltstone, proved to about 5.25m b.g.l. Water was struck at about 1.9m b.g.l. and rose to about 1.8m b.g.l.



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May 2018

Project No.

18-218

Sheet No.

R3

Project.

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Document Ref.

57629

BH14: shallow topsoil, over very stiff clay up to 1.3m b.g.l., over weathered mudstone up to 1.8m b.g.l. The soils continue with mudstone, proved to about 3.6m b.g.l. The borehole remained dry.

BH15: topsoil to 0.4m b.g.l., overlying stiff clay up to 1.4m b.g.l., over mudstone to 3.6m b.g.l., then coal. The maximum proved depth was 4.2m b.g.l. The borehole was recorded dry.

BH17: shallow topsoil, stiff clay with shale & coal bands up to 1.8m b.g.l., bearing upon mudstone with bands of ironstone, proved to about 4.3m b.g.l. No water was recorded.

BH18: shallow topsoil, overlying very stiff clay to about 2.6m b.g.l. with shale & coal presence from 1.6m b.g.l., over mudstone, proved to about 4.25m b.g.l. No water was revealed.

BH19: shallow topsoil followed by very stiff clay to about 2.4m b.g.l. with presence of weathered mudstone from 1.6m b.g.l., overlying mudstone to about 4.4m b.g.l. The log was noted as dry.

BH20: topsoil up to about 0.4m b.g.l., over fine grained sandstone & sand up to 1.1m b.g.l., bearing upon weathered siltstone with ironstone. The maximum proved depth was 3.2m b.g.l. No water was recorded.

BH21: topsoil up to about 0.5m b.g.l., over stiff sandy clay with sandstone to about 1.5m b.g.l., overlying mudstone proved to about 3.25m b.g.l. The borehole remained dry.

BH22: shallow topsoil over a thin layer of mudstone & shale, over stiff clay to about 1.1m b.g.l., over mudstone up to about 2.4m b.g.l., overlying coal & mudstone to about 2.8m b.g.l.. The soils continued with mudstone, proved to about 3.5m b.g.l.. The borehole was noted as dry.

4.03 TP1: slight silty slightly sandy clay loam to 0.4m b.g.l., over clay up to about 2.5m b.g.l., overlying weathered mudstone, proved to about 2.7m b.g.l.

TP2: shallow slightly silty slight sandy clay loam, overlying clay to about 1.6m b.g.l., overlying coal to about 1.9m b.g.l., bearing upon weathered mudstone. The maximum proved depth was about 2.5m b.g.l.

TP3: shallow slightly silty slight sandy clay loam, over clay up to about 2.0m, over a thin beam of weathered mudstone then fine sandstone, proved to about 2.4m b.g.l.

TP4: shallow slightly silty slight sandy clay loam, over clay to about 1.8m b.g.l., overlying coal to about 2.3m b.g.l., over weathered mudstone up to about 2.6m b.g.l. then fine sandstone. The maximum proved depth was about 2.7m b.g.l.

TP5: shallow slightly silty slightly sandy clay loam, then slightly gravelly clay & gravels of weathered sandstone to about 1.5m b.g.l., bearing upon gravelly clay & gravels of weathered sandstone, proved to about 2.4m b.g.l.

TP6: slightly silty slightly sandy clay loam to 0.4m b.g.l., over clay up to about 0.9m b.g.l., bearing upon weathered sandstone. The maximum proved depth was about 2.0m b.g.l.

TP7: shallow slightly silty slightly sandy clay loam, over sandy clay up to about 1.2m b.g.l. The soils continued with weathered sandstone, proved to about 2.1m b.g.l.

TP8: shallow slightly silty sandy clay loam, overlying slightly sandy clay to about 1.6m b.g.l., overlying weathered mudstone, proved to about 2.1m b.g.l.

TP9: shallow slightly silty sandy clay loam, over sandy clay to about 1.0m b.g.l., bearing upon weathered sandstone, proved to about 1.75m b.g.l.



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Project No.

18-218

Sheet No.

R4

Project.

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Document Ref.

57629

TP10: slightly silty sandy clay loam up to about 0.4m b.g.l., overlying weathered sandstone up about 0.8m b.g.l., then laminated sandy clay. The maximum proved depth was 2.2m b.g.l.

TP11: shallow slightly silty & slightly sandy clay loam, then sandy clay to about 0.9m b.g.l. The soils continued with slightly gravelly clay with occasional coal, proved to about 2.0m b.g.l.

TP12: shallow slightly silty & slightly sandy clay loam, over silty & sandy clay to about 0.75m b.g.l., bearing upon laminated clay. The maximum proved depth was about 2.0m b.g.l.

TP13: shallow slightly silty & slightly sandy clay loam, overlying slightly sandy clay to about 0.65m b.g.l., then clay to about 2.0m b.g.l., over slightly gravelly mottled clay & gravels of mudstone, proved to about 2.1m b.g.l.

TP14: shallow slightly silty sandy loam with occasional brick, pottery & coal, overlying slightly silty clay to about 1.1m b.g.l., over clay with lenses of black organic slightly silty clay up to about 1.7m b.g.l., overlying weathered mudstone, proved to about 2.1m b.g.l.

TP15: shallow slightly silty sandy clay loam with occasional brick & coal, over clay up to about 0.8m b.g.l., over slightly gravelly clay to about 1.5m b.g.l., overlying weathered mudstone, proved to about 1.65m b.g.l.

TP16: shallow slightly silty sandy clay loam with occasional coal & glass, over clay up to about 1.05m b.g.l. The soils continued with weathered mudstone. The maximum proved depth was 1.8m b.g.l.

TP17: shallow slightly sandy & very silty clay loam, over weathered mudstone up to about 0.75m b.g.l., overlying weathered sandstone, proved to about 1.9m b.g.l.

TP18: slightly silty sandy clay loam with occasional coal, brick & pottery to about 0.5m b.g.l., overlying clay to about 1.6m b.g.l., bearing upon weathered mudstone, proved to about 2.0m b.g.l.

TP19: shallow slightly silty sandy clay loam with occasional coal & pottery, then slightly sandy & silty clay to about 0.8m b.g.l., overlying weathered sandstone to about 1.6m b.g.l., over sandstone, proved to about 2.2m b.g.l.

TP20: shallow slightly silty sandy clay loam with occasional coal & pottery, overlying slightly silty clay to about 1.2m b.g.l., overlying layered & weathered mudstone up to about 1.9m b.g.l., over sandstone. The maximum proved depth was about 2.3m b.g.l.

TP21: shallow slightly silty sandy clay loam with occasional coal & brick, over slightly sandy silty clay to about 1.4m b.g.l.. The soils continued with weathered sandstone, proved to about 2.05m b.g.l..

TP22: shallow slightly silty slightly sandy clay loam, over clay to about 1.05m b.g.l., bearing upon weathered mudstone. The maximum proved depth was about 2.8m b.g.l.

TP23: shallow slightly silty sandy clay loam, overlying clay up to 1.0m b.g.l., over laminated clay to about 1.9m b.g.l., overlying a thin layer of coal, then weathered mudstone, proved to about 2.5m b.g.l.

TP24: shallow slightly silty sandy clay loam, over clay to about 0.6m b.g.l., overlying laminated clay up to about 2.2m b.g.l., then coal to about 2.4m b.g.l., over weathered mudstone, proved to about 2.5m b.g.l.

All trial pits remained dry.



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4.04 SPT readings were taken and are summarised as follows:

| Depth | SPT 'N' values | | | | | | | |
|--------------|----------------|---------|---------|---------|---------|---------|---------|---------|
| | BH1 | BH2 | BH3 | BH4 | BH5 | BH6 | BH7 | BH8 |
| 1.00 to 1.95 | 16 | 15 | 17 | 17 | 18 | 18 | 19 | 18 |
| 2.00 to 2.95 | 19 | 31 | 32 | - | 23 | 28 | 38 | 38 |
| 3.00 to 3.95 | 76 | 64/225* | 64/150* | 35 | 33 | 67/150* | 63/150* | 62/150* |
| 4.00 to 4.55 | 65/150* | 66/150* | 68/150* | 66/150* | 75/150* | 69/150* | 73/125* | 98/225* |
| 4.60 to 4.80 | end | end | end | 66/125* | end | end | end | end |
| | | | | end | | | | |

| Depth | SPT 'N' values | | | | | | | |
|--------------|----------------|---------|---------|---------|---------|----------|---------|---------|
| | BH9 | BH10 | BH11 | BH12 | BH13 | BH14 | BH15 | BH17 |
| 1.00 to 1.95 | 21 | 20 | 21 | 19 | 14 | 23 | 14 | 14 |
| 2.00 to 2.95 | 36 | 20 | 68/225* | 70 | 24 | 34 | 33 | 39 |
| 3.00 to 3.30 | 95/225* | - | 72/150* | - | - | 99/225* | - | - |
| 3.00 to 3.45 | - | - | - | 68/150* | - | - | - | - |
| 3.00 to 3.95 | - | 43 | - | - | 28 | - | 64/150* | 65/225* |
| 3.30 to 3.60 | - | - | end | - | - | 100/225* | - | - |
| 3.50 to 3.70 | end | - | | 71/150* | - | - | - | - |
| 4.00 to 4.30 | | 69/150* | | end | - | end | 59/125* | 88/225* |
| 4.00 to 4.95 | | - | | | 39 | | - | - |
| 5.00 to 5.25 | | end | | | 75/150* | | end | end |
| | | | | | end | | | |

| Depth | SPT 'N' values | | | | |
|--------------|----------------|---------|---------|---------|----------|
| | BH18 | BH19 | BH20 | BH21 | BH22 |
| 1.00 to 1.95 | 19 | 23 | 27 | 14 | 14 |
| 2.00 to 2.95 | 36 | 26 | 64 | 44 | 28 |
| 3.00 to 3.45 | - | - | 73/125* | 73/150* | 101/225* |
| 3.00 to 3.95 | 67 | 40 | end | end | - |
| 3.50 | - | - | | | 41/75* |
| 4.00 to 4.40 | 68/150* | 69/225* | | | end |
| | end | end | | | |

* Number of blows for penetration(mm)

4.05 Samples of subsoils have been tested to determine their plasticity index and results are shown in Appendix 3. (Modified plasticity index ranges from 1% to 41%, the majority lies between 10% and 40%)

4.06 Samples of subsoils have also been tested to determine their pH values and sulfate levels. Results are shown in Appendix 3.



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5 COMMENTS / RECOMMENDATIONS

- 5.01 Due to the presence of coal in a few boreholes, we suggest that a mining report and risk assessment be prepared, if not already carried out.
- 5.02 Subject to the results of item 5.01, we are of the opinion that the stiff clay would be a suitable formation for traditional strip / trench foundations.
- 5.03 For design purposes we suggest an allowable net increase in bearing pressure of 125kN/m^2 at a minimum depth of 1.0m below ground level.
- 5.04 We note from Google Earth that there appear to be a number of trees and/or shrubs within/ to perimeter of the site. Whilst the clay subsoils have been tested and the modified plasticity index were mostly less than 40%, of which suggested the sub-soils in general be medium volume change potential. We recommend that foundation depths are checked and increased if necessary, against the NHBC's guideline for building near trees.
- 5.05 We suggest suspended ground floor slabs be adopted due to the presence of topsoil and clay loam in depth of up to about 600mm.
- 5.06 We are aware that the levels of sulfate and pH values of the soil samples suggest the subsoils at some locations are aggressive to buried concrete. We suggest the foundation designer be mindful of that and specify the required concrete grade in accordance with BS8500-1.

We trust the above meets your present requirements, but please do not hesitate to contact us if you wish to discuss any aspect.

Kris Li BEng (Hons)
Michael Evans & Associates Ltd



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Appendix 1

CONTENTS

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ARCHIVE SK44 NE87



**British
Geological Survey**

NATURAL ENVIRONMENT RESEARCH COUNCIL

BGS ID: 222320 : BGS Reference: SK44NE87

British National Grid (27700) : 447036,345412

[Report an issue with this borehole](#)

<< < Prev Page 1 of 1 Next > >>

MR 31 GEOTECHNICAL AND CONCRETE SERVICES LIMITED fig. 17

BOREHOLE RECORD SHEET

SK44NE87

Ref. No. 2361 Borehole No. 10 Date 15/17th October 1989

Client Nottinghamshire County Council

Location Kimberley Eastwood Bypass 47036-45412

Ground Level 69.853m A.O.D. Diameter 1150mm Scale 1:100

| Description | M/C % | O.S.D. | Legend | Depth | Thickness | Sample | Water Levels |
|--|-------|------------------|--------|----------------|-----------|----------------------|------------------------|
| Top Soil | | 69.853 69.853 | | 0.000 0.400 | 0.400 | 0.500 0.980 | |
| Clay, grey-brown, mottled, with fragments of shale and shaly sandstone | | | | 1.930 | | 2.000 2.490 | |
| Mudstone, weathered and siltstone | | 67.523 68.543 | | 2.590 3.310 | 0.720 | 3.520-3.910 | N=41 |
| | | | | | | 4.500-4.800-4.875 | 50 blows for 0.075m if |
| | | | | | | 5.500-5.825 | 50 blows for 0.125m if |
| | | | | | | 6.000-6.125 | 50 blows for 0.125m if |
| Siltstone and mudstone, coal, 9.000-9.100 | | | | | (4.940) | 7.500-7.800 | 50 blows for 0.100m if |
| | | | | | | 9.000-9.100 | 50 blows for 0.100m if |
| | | | | | | 9.400-9.410 | 100 blows for 0.200m |
| | | | | | | 10.400-10.945 | 50 blows for 0.075m if |
| | | | | | | 11.000 | |
| | | | | | | 12.500-12.500-12.575 | 50 blows for 0.075m if |
| End of borehole | | 58.853 | | 13.000 | | | No water met |

Undisturbed Sample ☐ Disturbed Sample ☐ Bulk Sample B.S. Water Sample Standard Penetration Test X Density Test D.T. Vane Test V



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Appendix 2

CONTENTS

INDICATIVE LOCATION OF BOREHOLES & TRIAL PITS
BOREHOLE LOGS BH1 to BH15, BH17 TO BH22
TRIAL PIT RECORD TP1 TO TP24



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INDICATIVE LOCATION OF BOREHOLES & TRIAL PITS (BH1 TO BH22, TP1 TO TP24)





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|  | | | | Borehole Log | | | Borehole No. BH#1 Sheet 1 of 1 | |
|---|---------------|-----------------------------|------|-------------------------------|-----------|--------------|--|---|
| Project Name: Eastwood Landfill | | | | Project No. 57629 | | Co-ords: - | | Hole Type CP |
| Location: Eastwood Landfill, Nottinghamshire | | | | Level: 0.00 | | Scale 1:50 | | |
| Client: Broxtowe Borough Council | | | | Dates: 28/03/2018 - | | Logged By TJ | | |
| Well | Water Strikes | Samples and In Situ Testing | | Depth (m) | Level (m) | Legend | Stratum Description | |
| | | Depth (m) | Type | | | | | |
| | | 0.20 - 0.60 | D | | 0.20 | -0.20 | Grass & TOPSOIL | |
| | | 0.60 - 1.00 | D | | 0.60 | -0.60 | Yellow CLAY | |
| | | 1.00 | | N=16 (3,4/3,4,5,4) | | | Very stiff grey & brown CLAY with weathered mudstone | 1 |
| | | 2.00 | | N=19 (4,6/5,4,5,5) | 1.90 | -1.90 | COAL | 2 |
| | | 2.50 - 3.00 | D | | | | | |
| | | 3.00 | | N=76 (10,12/16,17,19,24) | 3.00 | -3.00 | Grey iron stained MUDSTONE | 3 |
| | | 3.50 - 4.00 | D | | | | | |
| | | 4.00 | | 65 (25 for 75mm/65 for 150mm) | 4.25 | -4.25 | End of borehole at 4.25 m | 4 |
| | | | | | | | | 5 |
| | | | | | | | | 6 |
| | | | | | | | | 7 |
| | | | | | | | | 8 |
| | | | | | | | | 9 |
| | | | | | | | | 10 |
| Remarks | | | | | | | |  |



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18-218

Sheet No.

A2.3

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57629

| kiwa | | Borehole Log | | | | | Borehole No. BH#2 Sheet 1 of 1 | |
|--|---------------|-----------------------------|------|-------------------------------|--------------|----------------|--|----|
| Project Name: Eastwood Landfill | | Project No. 57629 | | Co-ords: - | | Hole Type CP | | |
| Location: Eastwood Landfill, Nottinghamshire | | Level: 0.00 | | Scale 1:50 | | Logged By TJ | | |
| Client: Broxtowe Borough Council | | Dates: 26/03/2018 - | | | | | | |
| Well | Water Strikes | Samples and In Situ Testing | | Depth (m) | Level (m) | Legend | Stratum Description | |
| | | Depth (m) | Type | | | | | |
| | | 0.00 - 1.00 | D | N=15 (3,4/4,3,4,4) | 0.20 0.50 | -0.20 -0.50 | Grass & TOPSOIL. TOPSOIL. Stiff grey & brown CLAY. | 1 |
| | | 1.00 - 2.00 | D | N=31 (8,7/8,7,8,8) | 1.20 | -1.20 | Very stiff grey and brown CLAY with weathered mudstone. | 2 |
| | | 2.00 - 3.00 | | 64 (9,13/64 for 225mm) | 3.00 | -3.00 | Yellowy brown iron stained MUDSTONE. | 3 |
| | | 3.00 - 4.00 | | 66 (25 for 75mm/66 for 150mm) | 4.25 | -4.25 | End of borehole at 4.25 m | 4 |
| Remarks | | | | | | | | 5 |
| | | | | | | | | 6 |
| | | | | | | | | 7 |
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| | | | | | | | | 10 |





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|  | | | | Borehole Log | | | | Borehole No. BH#3 Sheet 1 of 1 | |
|---|---------------|-----------------------------|------|-------------------------------|-----------|------------|---|---|----|
| Project Name: Eastwood Landfill | | | | Project No. 57629 | | Co-ords: - | | Hole Type CP | |
| Location: Eastwood Landfill, Nottinghamshire | | | | Level: 0.00 | | Scale 1:50 | | Logged By TJ | |
| Client: Broxtowe Borough Council | | | | Dates: 27/03/2018 - | | | | | |
| Well | Water Strikes | Samples and In Situ Testing | | Depth (m) | Level (m) | Legend | Stratum Description | | |
| | | Depth (m) | Type | | | | | | |
| | | 0.40 - 1.00 | B | | 0.40 | -0.40 |  | Grass & TOPSOIL | |
| | | 1.00 | | N=17 (4,3/4,4,4,5) | 1.20 | -1.20 |  | Very stiff grey and brown CLAY | 1 |
| | | 2.00 | | N=32 (4,6/6,8,9,9) | | |  | Yellowy brown iron stained MUDSTONE with bands of ironstone | 2 |
| | | 2.80 - 3.00 | D | 64 (25 for 75mm/64 for 150mm) | 2.80 | -2.80 |  | COAL | 3 |
| | | 3.50 - 3.80 | D | | 3.80 | -3.80 |  | Grey MUDSTONE | 4 |
| | | 4.00 | | 68 (25 for 75mm/68 for 150mm) | 4.20 | -4.20 | | End of borehole at 4.20 m | 5 |
| | | | | | | | | | 6 |
| | | | | | | | | | 7 |
| | | | | | | | | | 8 |
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| Remarks | | | | | | | |  | |



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|  | | | | Borehole Log | | | | Borehole No. BH#4 Sheet 1 of 1 | |
|---|---------------|-----------------------------|------|-------------------------------|-----------|-------------|---|---|----|
| Project Name: Eastwood Landfill | | | | Project No. 57629 | | Co-ords: - | | Hole Type CP | |
| Location: Eastwood Landfill, Nottinghamshire | | | | Level: 0.00 | | Scale: 1:50 | | Logged By TJ | |
| Client: Broxtowe Borough Council | | | | Dates: 28/03/2018 - | | | | | |
| Well | Water Strikes | Samples and In Situ Testing | | Depth (m) | Level (m) | Legend | Stratum Description | | |
| | | Depth (m) | Type | | | | | | |
| | | 0.40 - 1.00 | D | | 0.40 | -0.40 | Grass & TOPSOIL | | |
| | | 1.00 | | N=17 (4,4/5,4,4,4) | | | Very stiff grey & brown CLAY with mudstone. | | 1 |
| | | | | | 2.30 | -2.30 | Grey MUDSTONE. | | 2 |
| | | 3.00 | | N=35 (7,8/9,8,9,9) | | | | | 3 |
| | | 3.80 - 4.00 | D | 66 (10,15/66 for 150mm) | 3.80 | -3.80 | COAL. | | 4 |
| | | 4.40 - 4.60 | D | 66 (25 for 75mm/66 for 125mm) | 4.80 | -4.80 | End of borehole at 4.80 m | | 5 |
| | | | | | | | | | 6 |
| | | | | | | | | | 7 |
| | | | | | | | | | 8 |
| | | | | | | | | | 9 |
| | | | | | | | | | 10 |
| Remarks | | | | | | | |  | |



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18-218

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|  | | | | Borehole Log | | | | Borehole No. BH#5 Sheet 1 of 1 | | |
|---|---|-----------------------------|------|-------------------------|-----------|-------------|---|---|--|---------|
| Project Name: Eastwood Landfill | | | | Project No. 57629 | | Co-ords: - | | Hole Type CP | | |
| Location: Eastwood Landfill, Nottinghamshire | | | | Level: 0.00 | | Scale: 1:50 | | Logged By TJ | | |
| Client: Broxtowe Borough Council | | | | Dates: 28/02/2018 - | | | | | | |
| Well | Water Strikes | Samples and In Situ Testing | | Depth (m) | Level (m) | Legend | Stratum Description | | | |
| | | Depth (m) | Type | | | | | | | Results |
| |  | 0.40 - 1.00 | D | | 0.40 | -0.40 |  | Grass & TOPSOIL | | |
| | | 1.00 | | N=18 (2,3/4,5,5,4) | | |  | Very stiff grey & brown CLAY | | 1 |
| | | 1.80 - 2.00 | D | | 1.80 | -1.80 |  | Very stiff grey & brown CLAY with weathered mudstone. | | 2 |
| | | 2.70 - 3.00 | D | | 2.70 | -2.70 |  | COAL | | 3 |
| | | 3.00 | | N=33 (8,10/10,8,6,9) | | |  | Grey iron stained MUDSTONE | | 4 |
| | | 4.00 | | 75 (11,14/75 for 150mm) | 4.30 | -4.30 | | End of borehole at 4.80 m | | 4 |
| Remarks | | | | | | | | | | |





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Document Ref.

57629

|  | | | | Borehole Log | | | Borehole No. BH#6 Sheet 1 of 1 | |
|---|------------------|-----------------------------|------|--------------------------------|--------------|-----------------|--|---|
| Project Name: Eastwood Landfill | | | | Project No. 57629 | | Co-ords: - | | Hole Type CP |
| Location: Eastwood Landfill, Nottinghamshire | | | | Level: 0.00 | | Scale 1:50 | | |
| Client: Broxtowe Borough Council | | | | Dates: 29/03/2018 - 30/03/2018 | | Logged By TJ | | |
| Well | Water Strikes | Samples and In Situ Testing | | Depth (m) | Level (m) | Legend | Stratum Description | |
| | | Depth (m) | Type | | | | | |
| | | 0.40 - 1.00 | D | | 0.30 | -0.30 | Grass & TOPSOIL | |
| | | 1.00 | | N=18 (4,4/4,4,5,5) | 1.00 | -1.00 | Reworked black, yellow & grey CLAY with coal | 1 |
| | | 1.80 - 2.00 | D | | 1.40 | -1.40 | Very stiff grey & brown CLAY | |
| | | 2.00 | | N=28 (5,6/7,6,7,8) | | | Grey MUDSTONE with ironstone | 2 |
| | | 3.00 | | 67 (10,15/67 for 150mm) | | | | 3 |
| | | 4.00 | | 68 (25 for 75mm/69 for 150mm) | 4.25 | -4.25 | | 4 |
| End of borehole at 4.25 m. | | | | | | | | 5 |
| | | | | | | | | 6 |
| | | | | | | | | 7 |
| | | | | | | | | 8 |
| | | | | | | | | 9 |
| | | | | | | | | 10 |
| Remarks | | | | | | | |  |



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| kiwa | | | | Borehole Log | | | | Borehole No. BH#7 Sheet 1 of 1 | |
|--|------------------|-----------------------------|------|-------------------------------|--------------|---------------|--|---|----|
| Project Name: Eastwood Landfill | | | | Project No. 57629 | | Co-ords: - | | Hole Type CP | |
| Location: Eastwood Landfill, Nottinghamshire | | | | Level: 0.00 | | Scale 1:50 | | Logged By TJ | |
| Client: Broxtowe Borough Council | | | | Dates: 30/03/2018 - | | | | | |
| Well | Water Strikes | Samples and In Situ Testing | | Depth (m) | Level (m) | Legend | Stratum Description | | |
| | | Depth (m) | Type | | | | | | |
| | | 0.30 - 1.00 | D | | 0.30 | -0.30 | Grass & TOPSOIL. | | |
| | | 1.00 | | N=19 (4,5/6,4,4,5) | 1.20 | -1.20 | Very stiff grey & brown CLAY. | | 1 |
| | | 1.60 - 2.00 | D | | | | Very stiff grey & brown CLAY with mudstone & thin bands of coal & shale. | | 2 |
| | | 2.00 | | N=38 (7,9/10,9,9,10) | 2.40 | -2.40 | Yellow & grey iron stained MUDSTONE. | | 3 |
| | | 2.60 - 3.00 | D | | | | | | 4 |
| | | 3.00 | | 63 (10,15/63 for 150mm) | 4.20 | -4.20 | End of borehole at 4.20 m | | 5 |
| | | 4.00 | | 73 (25 for 75mm/73 for 125mm) | | | | | 6 |
| | | | | | | | | | 7 |
| | | | | | | | | | 8 |
| | | | | | | | | | 9 |
| | | | | | | | | | 10 |
| Remarks | | | | | | | | AGS | |



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| kiwa | | | | Borehole Log | | | | Borehole No. BH#8 Sheet 1 of 1 | |
|--|------------------|-----------------------------|------|-------------------------------|--------------|---------------|--|---|---------|
| Project Name: Eastwood Landfill | | | | Project No. 57629 | | Co-ords: - | | Hole Type CP | |
| Location: Eastwood Landfill, Nottinghamshire | | | | Level: 0.00 | | Scale 1:50 | | Logged By TJ | |
| Client: Broxtowe Borough Council | | | | Dates: 03/04/2018 - | | | | | |
| Well | Water Strikes | Samples and In Situ Testing | | Depth (m) | Level (m) | Legend | Stratum Description | | |
| | | Depth (m) | Type | | | | | | Results |
| | | 0.30 - 1.00 | D | | 0.30 | -0.30 | Grass & TOPSOIL | | |
| | | 1.00 | | N=18 (4,4/4,4,5,5) | | | Very stiff grey & brown CLAY | 1 | |
| | | 1.70 - 2.00 | D | | 1.70 | -1.70 | Very stiff yellow CLAY with weathered mudstone | 2 | |
| | | 2.00 | | N=38 (6,8/10,9,10,9) | | | | | |
| | | 2.60 - 3.00 | D | | 2.60 | -2.60 | Grey iron stained MUDSTONE with bands of ironstone | 3 | |
| | | 3.00 | | 62 (11,15/62 for 150mm) | | | | | |
| | | 3.80 - 4.00 | D | | 4.30 | -4.30 | End of borehole at 4.30 m | 4 | |
| | | 4.00 | | 98 (25 for 75mm/98 for 225mm) | | | | | |
| Remarks | | | | | | | | | |





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18-218

Sheet No.

A2.10

Project.

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| kiwa | | Borehole Log | | | | | Borehole No. BH#9 Sheet 1 of 1 | |
|--|---------------|-----------------------------|------|-------------------------------|-----------|---------------|---|---------|
| Project Name: Eastwood Landfill | | Project No. 57629 | | Co-ords: - | | Hole Type CP | | |
| Location: Eastwood Landfill, Nottinghamshire | | Level: 0.00 | | Scale 1:50 | | Logged By T.J | | |
| Client: Broxtowe Borough Council | | Dates: 03/04/2018 - | | | | | | |
| Well | Water Strikes | Samples and In Situ Testing | | Depth (m) | Level (m) | Legend | Stratum Description | |
| | | Depth (m) | Type | | | | | Results |
| | | 0.30 - 1.00 | D | | 0.30 | -0.30 | Grass & TOPSOIL. | |
| | | 1.00 | | N=21 (3.5/6,4,5,6) | | | Very stiff yellowy brown sandy CLAY & fine grained sandstone. | |
| | | 1.70 - 2.00 | D | | 1.70 | -1.70 | Orange weathered SILTSTONE. | |
| | | 2.00 | | N=36 (7.9/10.9,8,9) | | | | |
| | | 2.70 - 3.00 | D | | | | | |
| | | 3.00 | | 95 (25 for 75mm/95 for 225mm) | 3.30 | -3.30 | End of borehole at 3.30 m | |
| Remarks | | | | | | | | |





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|  | | | | Borehole Log | | | Borehole No. BH#10 Sheet 1 of 1 | |
|---|------------------|-----------------------------|------|---------------------------|--------------|---------------|--|---|
| Project Name: Eastwood Landfill | | | | Project No. 57629 | | Co-ords: - | | Hole Type CP |
| Location: Eastwood Landfill, Nottinghamshire | | | | Level: 0.00 | | Scale 1:50 | | Logged By TJ |
| Client: Broxtowe Borough Council | | | | Dates: 04/04/2018 - | | | | |
| Well | Water Strikes | Samples and In Situ Testing | | Depth (m) | Level (m) | Legend | Stratum Description | |
| | | Depth (m) | Type | | | | | |
| | | 0.30 - 1.00 | D | | 0.30 | -0.30 | Grass & TOPSOIL | |
| | | 1.00 | | N=20 (3,5/4,5,5,5) | | | Very stiff yellowy brown sandy CLAY with fine grained sandstone. | 1 |
| | | 1.70 - 2.00 | D | | 1.70 | -1.70 | Yellowy grey weathered MUDSTONE | 2 |
| | | 2.00 | | N=20 (4,4/4,5,5,5) | | | | |
| | | 2.60 - 3.00 | D | | 2.50 | -2.50 | Yellowy grey iron stained MUDSTONE with bands of ironstone. | 3 |
| | | 3.00 | | N=43 (7,8/10,11,10,12) | | | | |
| | | 3.80 - 4.00 | D | | 4.30 | -4.30 | | 4 |
| | | 4.00 | | 69 (11,14/69 for 150mm) | | | | |
| End of borehole at 4.80 m | | | | | | | | 5 |
| | | | | | | | | 6 |
| | | | | | | | | 7 |
| | | | | | | | | 8 |
| | | | | | | | | 9 |
| | | | | | | | | 10 |
| Remarks | | | | | | | |  |



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| kiwa | | | | Borehole Log | | | | Borehole No. BH#11 Sheet 1 of 1 | |
|--|------------------|-----------------------------|------|-------------------------------|--------------|---------------|--|--|---------|
| Project Name: Eastwood Landfill | | | | Project No. 57629 | | Co-ords: - | | Hole Type CP | |
| Location: Eastwood Landfill, Nottinghamshire | | | | Level: 0.00 | | Scale 1:50 | | Logged By TJ | |
| Client: Broxtowe Borough Council | | | | Dates: 05/04/2018 - | | | | | |
| Well | Water Strikes | Samples and In Situ Testing | | Depth (m) | Level (m) | Legend | Stratum Description | | |
| | | Depth (m) | Type | | | | | | Results |
| | | 0.50 - 1.00 | D | | 0.50 | -0.50 | Grass & TOPSOIL | | |
| | | 1.00 | | N=21 (5,5/5,5,5,5) | 1.00 | -1.00 | Reworked yellow, grey, black & orange CLAY | 1 | |
| | | 1.70 - 2.00 | D | | 1.90 | -1.90 | Very stiff grey & brown CLAY with weathered mudstone | | |
| | | 2.00 | | 68 (9,10/68 for 225mm) | | | Yellowy brown weathered SILTSTONE | 2 | |
| | | 2.60 - 3.00 | D | | | | | | |
| | | 3.00 | | 72 (25 for 75mm/72 for 150mm) | 3.25 | -3.25 | End of borehole at 3.25 m | 3 | |
| Remarks | | | | | | | | | 4 |
| | | | | | | | | | 5 |
| | | | | | | | | | 6 |
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| | | | | | | | | | 10 |





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| kiwa | | Borehole Log | | | | | Borehole No. BH#12 Sheet 1 of 1 | |
|--|------------------|-----------------------------|------|-------------------------------|--------------|-----------------|--|--|
| Project Name: Eastwood Landfill | | Project No. 57629 | | Co-ords: - | | Hole Type CP | | |
| Location: Eastwood Landfill, Nottinghamshire | | Level: 0.00 | | Scale 1:50 | | Logged By TJ | | |
| Client: Broxtowe Borough Council | | Dates: 05/04/2018 - | | | | | | |
| Well | Water Strikes | Samples and In Situ Testing | | | Depth (m) | Level (m) | Legend | Stratum Description |
| | | Depth (m) | Type | Results | | | | |
| | | 0.50 - 0.80 | D | | 0.50 | -0.50 | | Grass & TOPSOIL. |
| | | 0.90 - 1.00 | D | | 0.80 | -0.80 | | Possibly reworked yellowy orange CLAY. |
| | | 1.00 | | N=19 (3,4/4,5,4,6) | | | | Very stiff yellowy brown & grey sandy CLAY with sandstone. |
| | | 1.80 - 2.00 | D | | 1.80 | -1.80 | | Grey MUDSTONE. |
| | | 2.40 - 2.60 | D | | 2.40 | -2.40 | | COAL & shale. |
| | | | | | 2.60 | -2.60 | | Grey iron stained MUDSTONE. |
| | | 3.00 | | 68 (10,15/68 for 150mm) | | | | |
| | | 3.50 | | 71 (25 for 75mm/71 for 150mm) | 3.70 | -3.70 | | End of borehole at 3.70 m |
| Remarks | | | | | | | | |





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| kiwa | | Borehole Log | | | | | Borehole No. BH#13 Sheet 1 of 1 | |
|--|---------------------------|-----------------------------|-------------------------|---------------|--------------|-----------------|--|---------|
| Project Name: Eastwood Landfill | | Project No. 57629 | | Co-ords: - | | Hole Type CP | | |
| Location: Eastwood Landfill, Nottinghamshire | | Level: 0.00 | | Scale 1:50 | | Logged By TJ | | |
| Client: Broxtowe Borough Council | | Dates: 06/04/2018 - | | | | | | |
| Well | Water Strikes | Samples and In Situ Testing | | Depth (m) | Level (m) | Legend | Stratum Description | |
| | | Depth (m) | Type | | | | | Results |
| | | 0.30 - 0.60 | D | | | | Grass & TOPSOIL | |
| | 0.60 - 1.00 | D | | 0.60 | -0.60 | | Grey MUDSTONE | |
| | 1.00 | | N=14 (2,3/4,3,3,4) | | | | | |
| | 1.70 - 2.00 | D | | 1.60 | -1.60 | | Dark grey MUDSTONE & shale. | |
| | 2.00 | | N=24 (5,6/5,6,6,7) | | | | | |
| | 3.00 | | N=28 (5,5/7,7,6,8) | | | | | |
| | 4.00 | | N=39 (8,8/9,9,10,11) | | | | | |
| | 4.60 - 5.00 | D | | 4.60 | -4.60 | | Light brown iron stained SILTSTONE | |
| | 5.00 | | 75 (10,15/75 for 150mm) | 5.25 | -5.25 | | | |
| | End of borehole at 5.25 m | | | | | | | |
| Remarks | | | | | | | | |
| | | | | | | | | |



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| kiwa | | Borehole Log | | | | | Borehole No. BH#14 Sheet 1 of 1 | |
|--|------------------|--------------------------------|------|---------------------------------------|--------------|-----------------|--|---------|
| Project Name: Eastwood Landfill | | Project No. 57629 | | Co-ords: - | | Hole Type CP | | |
| Location: Eastwood Landfill, Nottinghamshire | | Level: 0.00 | | Scale 1:50 | | Logged By TJ | | |
| Client: Broxtowe Borough Council | | Dates: 30/03/2018 - 02/04/2018 | | | | | | |
| Well | Water Strikes | Samples and In Situ Testing | | Depth (m) | Level (m) | Legend | Stratum Description | |
| | | Depth (m) | Type | | | | | Results |
| | | 0.30 - 1.00 | B | | 0.30 | -0.30 | Grass & TOPSOIL. | |
| | | 1.00 | | N=23 (4,5/6,5,6/6) | | | Very stiff grey & brown CLAY. | |
| | | 1.60 - 2.00 | D | | 1.30 | -1.30 | Yellow & orange weathered MUDSTONE | |
| | | 2.00 | | N=34 (7,8/7,9,9/9) | 1.60 | -1.60 | Grey & brown MUDSTONE. | |
| | | 3.00 | | 99 (25 for 75mm/99 for 225mm) | | | | |
| | | 3.30 | | 100 (25 for 75mm/100 for 225mm) | 3.60 | -3.60 | | |
| | | | | | | | End of borehole at 3.60 m | |
| Remarks | | | | | | | | |





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|  | | | | Borehole Log | | | | Borehole No. BH#15 Sheet 1 of 1 | |
|---|---------------|-----------------------------|------|--------------------------------|-----------|------------|---|---|----|
| Project Name: Eastwood Landfill | | | | Project No. 57629 | | Co-ords: - | | Hole Type CP | |
| Location: Eastwood Landfill, Nottinghamshire | | | | Level: 0.00 | | Scale 1:50 | | Logged By TJ | |
| Client: Broxtowe Borough Council | | | | Dates: 27/03/2018 - 28/03/2018 | | | | | |
| Well | Water Strikes | Samples and In Situ Testing | | Depth (m) | Level (m) | Legend | Stratum Description | | |
| | | Depth (m) | Type | | | | | | |
| | | 0.40 - 1.00 | D | | 0.40 | -0.40 |  | Grass & TOPSOIL | |
| | | 1.00 | | N=14 (4,4/3,4,3,4) | | |  | Stiff brown & grey CLAY | 1 |
| | | 1.60 - 2.00 | D | | 1.40 | -1.40 |  | Yellowy grey iron stained MUDSTONE | 2 |
| | | 2.00 | | N=33 (6,7/8,8,8,9) | | | | | |
| | | 3.00 | | 64 (10,15/64 for 150mm) | | | | | 3 |
| | | 3.60 - 4.00 | D | | 3.60 | -3.60 |  | COAL | 4 |
| | | 4.00 | | 59 (25 for 75mm/59 for 125mm) | 4.20 | -4.20 | | End of borehole at 4.20 m | |
| | | | | | | | | | 5 |
| | | | | | | | | | 6 |
| | | | | | | | | | 7 |
| | | | | | | | | | 8 |
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| | | | | | | | | | 10 |
| Remarks | | | | | | | |  | |



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| kiwa | | Borehole Log | | | | | Borehole No. BH#17 | |
|--|------------------|------------------------------------|--------|-------------------------------|--------------|---------------|--|---------|
| Project Name: Eastwood Landfill | | Project No. 57629 | | Co-ords: - | | Sheet 1 of 1 | | |
| Location: Eastwood Landfill, Nottinghamshire | | Level: 0.00 | | Hole Type CP | | Scale 1:50 | | |
| Client: Broxlowe Borough Council | | Dates: 29/03/2018 - | | Logged By TJ | | | | |
| Well | Water Strikes | Samples and In Situ Testing | | Depth (m) | Level (m) | Legend | Stratum Description | |
| | | Depth (m) | Type | | | | | Results |
| | | 0.40 - 1.00 | D | | 0.40 | -0.40 | Grass & TOPSOIL | |
| | | 1.00 | | N=14 (3,3/3,4,4,3) | | | Stiff grey & brown CLAY with shale & coal bands. | |
| | | 1.70 - 1.80 1.80 - 2.00 2.00 | D D | | 1.80 | -1.80 | Orange & grey iron stained MUDSTONE with bands of ironstone. | |
| | | 2.50 - 3.00 | D | | | | | |
| | | 3.00 | | 65 (10,15/55 for 225mm) | | | | |
| | | 4.00 | | 88 (25 for 75mm/88 for 225mm) | 4.30 | -4.30 | End of borehole at 4.30 m | |
| Remarks | | | | | | | | |





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|  | | | | Borehole Log | | | Borehole No. BH#18 Sheet 1 of 1 | |
|---|---------------|-----------------------------|------|-------------------------------|-----------|--------------|---|---|
| Project Name: Eastwood Landfill | | | | Project No. 57629 | | Co-ords: - | | Hole Type CP |
| Location: Eastwood Landfill, Nottinghamshire | | | | Level: 0.00 | | Scale 1:50 | | |
| Client: Broxtowe Borough Council | | | | Dates: 02/04/2018 - | | Logged By TJ | | |
| Well | Water Strikes | Samples and In Situ Testing | | Depth (m) | Level (m) | Legend | Stratum Description | |
| | | Depth (m) | Type | | | | | |
| | | 0.30 - 1.00 | D | | 0.30 | -0.30 | Grass & TOPSOIL | |
| | | 1.00 | | N=19 (4,6/5,5,4,5) | | | Very stiff grey & brown CLAY | 1 |
| | | 1.70 - 2.00 | D | | 1.60 | -1.60 | Very stiff orange & brown CLAY with shale & coal. | 2 |
| | | 2.00 | | N=36 (8,8/9,9,9,9) | | | | |
| | | 2.70 - 3.00 | D | | 2.60 | -2.60 | Light brown & grey iron stained MUDSTONE | 3 |
| | | 3.00 | | N=67 (9,12/13,15,19,20) | | | | |
| | | 4.00 | | 68 (25 for 75mm/68 for 150mm) | 4.25 | -4.25 | End of borehole at 4.25 m | 4 |
| | | | | | | | | 5 |
| | | | | | | | | 6 |
| | | | | | | | | 7 |
| | | | | | | | | 8 |
| | | | | | | | | 9 |
| | | | | | | | | 10 |
| Remarks | | | | | | | |  |



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| kiwa | | Borehole Log | | | | | Borehole No. BH#19 | |
|--|------------------|-----------------------------|------|--------------------------|--------------|---------------|------------------------------|--|
| Project Name: Eastwood Landfill | | Project No. 57629 | | Co-ords: - | | Sheet 1 of 1 | | |
| Location: Eastwood Landfill, Nottinghamshire | | Level: 0.00 | | Hole Type CP | | Scale 1:50 | | |
| Client: Broxlowe Borough Council | | Dates: 04/04/2018 - | | Logged By TJ | | | | |
| Well | Water Strikes | Samples and In Situ Testing | | | Depth (m) | Level (m) | Legend | Stratum Description |
| | | Depth (m) | Type | Results | | | | |
| | | 0.30 - 1.00 | D | | 0.30 | -0.30 | | Grass & TOPSOIL |
| | | 1.00 | | N=23 (3,4/5,6,6,6) | | | | Very stiff grey & brown CLAY |
| | | 1.60 - 2.00 | D | | 1.60 | -1.60 | | Very stiff grey & brown CLAY with weathered mudstone |
| | | 2.00 | | N=26 (5,5/6,6,7,7) | | | | Grey iron stained MUDSTONE |
| | | 2.40 - 3.00 | D | | 2.40 | -2.40 | | Grey iron stained MUDSTONE |
| | | 3.00 | | N=40 (6,8/10,9,10,11) | | | | Grey iron stained MUDSTONE |
| | | 3.60 - 4.00 | D | | | | | Grey iron stained MUDSTONE |
| | | 4.00 | | 68 (10,15/68 for 225mm) | 4.40 | -4.40 | | Grey iron stained MUDSTONE |
| | | | | | | | | End of borehole at 4.40 m |
| Remarks | | | | | | | | |





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|  | | | | Borehole Log | | | | Borehole No. BH#20 Sheet 1 of 1 | |
|---|---------------|-----------------------------|------|-------------------------------|-----------|------------|---|---|----|
| Project Name: Eastwood Landfill | | | | Project No. 57629 | | Co-ords: - | | Hole Type CP | |
| Location: Eastwood Landfill, Nottinghamshire | | | | Level: 0.00 | | Scale 1:50 | | Logged By TJ | |
| Client: Broxtowe Borough Council | | | | Dates: 03/04/2018 - | | | | | |
| Well | Water Strikes | Samples and In Situ Testing | | Depth (m) | Level (m) | Legend | Stratum Description | | |
| | | Depth (m) | Type | | | | | | |
| | | 0.40 - 1.00 | D | | 0.40 | -0.40 |  Grass & TOPSOIL | | |
| | | 1.00 | | N=27 (5,7,6,7,8,8) | 1.10 | -1.10 |  Yellow & orange fine grained SANDSTONE & sand | | 1 |
| | | 1.50 - 2.00 | D | | | |  Yellowish grey weathered SILTSTONE with ironstone | | 2 |
| | | 2.00 | | N=64 (10,12/14,16,16,18) | | | | | |
| | | 3.00 | | 73 (25 for 75mm/73 for 125mm) | 3.20 | -3.20 |  End of borehole at 3.20 m | | 3 |
| | | | | | | | | | 4 |
| | | | | | | | | | 5 |
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| Remarks | | | | | | | |  | |



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| kiwa | | Borehole Log | | | | | Borehole No. BH#21 Sheet 1 of 1 | |
|--|---------------|--------------------------------|------|-------------------------------|-----------|---------------|--|---|
| Project Name: Eastwood Landfill | | Project No. 57629 | | Co-ords: - | | Hole Type CP | | |
| Location: Eastwood Landfill, Nottinghamshire | | Level: 0.00 | | Scale 1:50 | | Logged By T.J | | |
| Client: Broxtowe Borough Council | | Dates: 05/04/2018 - 06/04/2018 | | | | | | |
| Well | Water Strikes | Samples and In Situ Testing | | | Depth (m) | Level (m) | Legend | Stratum Description |
| | | Depth (m) | Type | Results | | | | |
| | | 0.50 - 1.00 | B | | 0.50 | -0.50 | | Grass & TOPSOIL |
| | | 1.00 | | N=14 (2,3/3,4,3,4) | | | | Stiff orange & brown sandy CLAY with sandstone. |
| | | 1.60 - 2.00 | D | | 1.50 | -1.50 | | Yellow & grey iron stained MUDSTONE |
| | | 2.00 | | N=44 (9,9/9,10,12,13) | | | | |
| | | 2.50 - 2.80 | D | | | | | |
| | | 3.00 | | 73 (25 for 75mm/73 for 150mm) | 3.25 | -3.25 | | End of borehole at 3.25 m |
| Remarks | | | | | | | | |





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| kiwa | | Borehole Log | | | | | Borehole No. BH#22 Sheet 1 of 1 | |
|--|------------------|-----------------------------|------|---------------------------------|--------------|------------------|--|---------|
| Project Name: Eastwood Landfill | | Project No. 57629 | | Co-ords: - | | Hole Type CP | | |
| Location: Eastwood Landfill, Nottinghamshire | | Level: 0.00 | | Scale 1:50 | | Logged By T.J | | |
| Client: Broxtowe Borough Council | | Dates: 06/04/2018 - | | | | | | |
| Well | Water Strikes | Samples and In Situ Testing | | Depth (m) | Level (m) | Legend | Stratum Description | |
| | | Depth (m) | Type | | | | | Results |
| | | 0.20 - 0.40 | D | | 0.20 | -0.20 | Grass & TOPSOIL. | |
| | | 0.40 - 1.00 | D | | 0.40 | 0.40 | Grey, yellow & black MUDSTONE & shale. Stiff grey & brown CLAY. | |
| | | 1.00 | | N=14 (4,4/4,3,4,3) | 1.10 | -1.10 | Orangey brown & grey iron stained MUDSTONE. | |
| | | 2.00 | | N=28 (6,7/8,7,6,7) | | | | |
| | | 2.40 - 2.80 | D | | 2.40 | -2.40 | COAL & mudstone. | |
| | | 2.80 - 2.80 | D | | | | | |
| | | 2.80 - 3.00 | D | | 2.80 | -2.80 | Grey iron stained MUDSTONE. | |
| | | 3.00 | | 101 (25 for 75mm/101 for 225mm) | | | | |
| | | 3.50 | | 41 (25 for 75mm/41 for 75mm) | 3.50 | -3.50 | End of borehole at 3.50 m | |
| Remarks | | | | | | | | |







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| | | | | <h1>Trial Pit Log</h1> | | | Trialpit No TP#2 Sheet 1 of 1 | | |
|--|-----------------------------|------|---------|------------------------|--------------|---------------------------|---|--------------------|--|
| Project Name: Eastwood Landfill | | | | Project No. 57629 | | Co-ords: - Level: 0.00 | | Date 26/03/2018 | |
| Location: Eastwood Landfill, Nottinghamshire | | | | Dimensions (m) | | 2 | | Scale 1:25 | |
| Client: Broxtowe Borough Council | | | | Depth 2.50 | | | | Logged MC | |
| Water Strike | Samples and In Situ Testing | | | Depth (m) | Level (m) | Legend | Stratum Description | | |
| | Depth | Type | Results | | | | | | |
| | 0.00 - 0.30 | B | | | | | Black slightly silty slightly sandy CLAY LOAM | | |
| | 0.30 - 0.50 | B | | 0.30 | -0.30 | | Yellow CLAY | | |
| | 0.50 - 1.60 | B | | 0.50 | -0.50 | | Grey CLAY | | |
| | 1.60 - 1.90 | B | | 1.60 | -1.60 | | COAL | | |
| | 1.90 - 2.50 | B | | 1.90 | -1.90 | | Grey & yellow weathered MUDSTONE | | |
| | | | | 2.50 | -2.50 | | End of pit at 2.50 m | | |
| Remarks: | | | | | | | | | |
| Stability: Stable | | | | | | | | | |





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| | | | | <h1>Trial Pit Log</h1> | | | Trialpit No. TP#4 Sheet 1 of 1 | | |
|--|-----------------------------|------|---------|------------------------------|----------------|---------------------------|---|--------------------|--|
| Project Name: Eastwood Landfill | | | | Project No. 57629 | | Co-ords: - Level: 0.00 | | Date 26/03/2018 | |
| Location: Eastwood Landfill, Nottinghamshire | | | | Dimensions (m) Depth 2.70 | | 1.8 | | Scale 1:25 | |
| Client: Broxtowe Borough Council | | | | | | | | Logged MC | |
| Water Strike | Samples and In Situ Testing | | | Depth (m) | Level (m) | Legend | Stratum Description | | |
| | Depth | Type | Results | | | | | | |
| | 0.00 - 0.30 | B | | | | | Black slightly silty slightly sandy CLAY LOAM | | |
| | 0.30 - 1.80 | B | | 0.30 | -0.30 | | Yellow & grey CLAY | | |
| | 1.80 - 2.30 | B | | 1.80 | -1.80 | | COAL | | |
| | 2.30 - 2.60 | B | | 2.30 | -2.30 | | Grey weathered MUDSTONE | | |
| | 2.60 - 2.70 | B | | 2.60 2.70 | -2.60 -2.70 | | Orange fine SANDSTONE | | |
| End of pit at 2.70 m | | | | | | | | | |
| Remarks: | | | | | | | | | |
| Stability: Stable | | | | | | | | | |





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| | | | | <h1>Trial Pit Log</h1> | | | Trialpit No. TP#5 Sheet 1 of 1 | |
|--|-----------------------------|------|---------|------------------------|--------------|---------------------------|---|-----------------|
| Project Name: Eastwood Landfill | | | | Project No. 57629 | | Co-ords: - Level: 0.00 | | Date 26/03/2018 |
| Location: Eastwood Landfill, Nottinghamshire | | | | Dimensions (m) 1.9 | | Scale 1:25 | | Logged MC |
| Client: Broxtowe Borough Council | | | | Depth 2.40 | | | | |
| Water Strike | Samples and In Situ Testing | | | Depth (m) | Level (m) | Legend | Stratum Description | |
| | Depth | Type | Results | | | | | |
| | 0.00 - 0.30 | B | | | | | Black slightly silty slightly sandy CLAY LOAM | |
| | 0.30 - 1.50 | B | | 0.30 | -0.30 | | Yellow & grey slightly gravelly CLAY. Gravels of weathered sandstone. | 1 |
| | 1.50 - 2.40 | B | | 1.50 | -1.50 | | Yellow & grey gravelly CLAY. Gravels of weathered sandstone. | 2 |
| | | | | 2.40 | -2.40 | | End of pit at 2.40 m | 3 |
| | | | | | | | | 4 |
| | | | | | | | | 5 |

Remarks:

Stability: Stable



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| | | | | <h1>Trial Pit Log</h1> | | | Trialpit No TP#6 Sheet 1 of 1 | |
|--|-----------------------------|------|-------------------|------------------------|---------------------------|--------|--|---|
| Project Name: Eastwood Landfill | | | Project No. 57629 | | Co-ords: - Level: 0.00 | | Date 28/03/2018 | |
| Location: Eastwood Landfill, Nottinghamshire | | | | | Dimensions (m): 2.2 | | Scale 1:25 | |
| Client: Broxtowe Borough Council | | | | | Depth 2.00 | | Logged MC | |
| Water Strike | Samples and In Situ Testing | | | Depth (m) | Level (m) | Legend | Stratum Description | |
| | Depth | Type | Results | | | | | |
| | 0.00 - 0.40 | B | | | | | Black slightly silty slightly sandy CLAY LOAM. | |
| | 0.40 - 0.90 | B | | 0.40 | -0.40 | | Yellow and grey CLAY. | |
| | 0.90 - 2.00 | B | | 0.90 | -0.90 | | Yellow and grey weathered SANDSTONE | 1 |
| | | | | 2.00 | -2.00 | | End of pit at 3.00 m | 2 |
| | | | | | | | | 3 |
| | | | | | | | | 4 |
| | | | | | | | | 5 |
| Remarks: | | | | | | | | |
| Stability: Stable | | | | | | | | |



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| | | | | <h1>Trial Pit Log</h1> | | | Trialpit No. TP#7 Sheet 1 of 1 | |
|-------------------|-----------------------------|------------------------------------|---------|------------------------|--------------|--------|--|---------------------------|
| Project Name: | | Eastwood Landfill | | Project No. | | 57629 | | Co-ords: - Level: 0.00 |
| Location: | | Eastwood Landfill, Nottinghamshire | | Dimensions (m): | | 2.1 | | Date 28/03/2018 |
| Client: | | Broxtowe Borough Council | | Depth | | 2.10 | | Scale 1:25 |
| | | | | | | | | Logged MC |
| Water Strike | Samples and In Situ Testing | | | Depth (m) | Level (m) | Legend | Stratum Description | |
| | Depth | Type | Results | | | | | |
| | 0.00 - 0.30 | B | | | | | Black slightly silty slightly sandy CLAY LOAM. | |
| | 0.30 - 1.20 | B | | 0.30 | -0.30 | | Yellow slightly sandy CLAY. | |
| | 1.20 - 2.10 | B | | 1.20 | -1.20 | | Orange weathered SANDSTONE | |
| | | | | 2.10 | -2.10 | | End of pit at 2.10 m | |
| Remarks: | | | | | | | | |
| Stability: Stable | | | | | | | | |





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|  | | | | <h1>Trial Pit Log</h1> | | | Trialpit No. TP#8 Sheet 1 of 1 | |
|---|-----------------------------|------------------------------------|---------|------------------------|--------------|--------|---|---|
| Project Name: | | Eastwood Landfill | | Project No. | | 57629 | | Co-ords: - Level: 0.00 |
| Location: | | Eastwood Landfill, Nottinghamshire | | Dimensions (m): | | 2.1 | | Date 28/03/2018 |
| Client: | | Broxtowe Borough Council | | Depth | | 2.10 | | Scale 1:25 |
| | | | | | | | | Logged MC |
| Water Strike | Samples and In Situ Testing | | | Depth (m) | Level (m) | Legend | Stratum Description | |
| | Depth | Type | Results | | | | | |
| | 0.00 - 0.35 | B | | | | | Black slightly silty SANDY CLAY LOAM. | |
| | 0.35 - 1.60 | B | | 0.35 | 0.35 | | Yellow & grey slightly sandy CLAY. | 1 |
| | 1.60 - 2.10 | B | | 1.60 | -1.60 | | Grey weathered MUDSTONE | 2 |
| | | | | 2.10 | -2.10 | | End of pit at 2.10 m | 3 |
| | | | | | | | | 4 |
| | | | | | | | | 5 |
| Remarks: | | | | | | | |  |
| Stability: Stable | | | | | | | | |



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| | | | | <h1>Trial Pit Log</h1> | | | Trialpit No TP#9 Sheet 1 of 1 | |
|--|-----------------------------|------|----------------------------------|------------------------|--|----------------------|--|--|
| Project Name: Eastwood Landfill | | | Project No. 57629 | | Co-ords: - Level: 0.00 | | Date: 28/03/2018 | |
| Location: Eastwood Landfill, Nottinghamshire | | | Client: Broxtowe Borough Council | | Dimensions (m): Depth 1.75 <div style="display: inline-block; border: 1px solid black; padding: 2px;">2.4</div> | | Scale: 1:25 Logged: MC | |
| Water Strike | Samples and In Situ Testing | | | Depth (m) | Level (m) | Legend | Stratum Description | |
| | Depth | Type | Results | | | | | |
| | 0.00 - 0.40 | B | | | | | Black slightly silty SANDY CLAY LOAM. | |
| | 0.40 - 1.00 | B | | 0.40 | -0.40 | | Yellow & orange sandy CLAY. | |
| | 1.00 - 1.75 | B | | 1.00 | -1.00 | | Orange weathered SANDSTONE. | |
| | | | | 1.75 | -1.75 | End of pit at 1.75 m | | |
| Remarks: <div style="float: right; text-align: right;"> </div> | | | | | | | | |
| Stability: Stable | | | | | | | | |



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| | | | | <h1>Trial Pit Log</h1> | | | Trialpit No. TP#10 Sheet 1 of 1 | | |
|--|-----------------------------|------|---------|------------------------|--------------|---------------------------|--|------------------|--|
| Project Name: Eastwood Landfill | | | | Project No. 57629 | | Co-ords: - Level: 0.00 | | Date: 26/03/2018 | |
| Location: Eastwood Landfill, Nottinghamshire | | | | Dimensions (m) 2.1 | | Scale 1:25 | | Logged MC | |
| Client: Broxtowe Borough Council | | | | Depth 2.20 | | | | | |
| Water Strike | Samples and In Situ Testing | | | Depth (m) | Level (m) | Legend | Stratum Description | | |
| | Depth | Type | Results | | | | | | |
| | 0.00 - 0.40 | B | | | | | Black slightly silty SANDY CLAY LOAM. | | |
| | 0.40 - 0.80 | B | | 0.40 | -0.40 | | Orange weathered SANDSTONE | | |
| | 0.80 - 2.20 | B | | 0.80 | -0.80 | | Yellow laminated sandy CLAY | | |
| | | | | 2.20 | -2.20 | | End of pit at 2.20 m | | |
| Remarks: | | | | | | | | | |
| Stability: Stable | | | | | | | | | |





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|  | | | | <h1>Trial Pit Log</h1> | | | Trialpit No TP#11 Sheet 1 of 1 | |
|---|-----------------------------|------|---------|------------------------------|--------------|--|--|-------------------------------|
| Project Name: Eastwood Landfill | | | | Project No. 57629 | | Co-ords: - Level: 0.00 | | Date 27/03/2018 |
| Location: Eastwood Landfill, Nottinghamshire | | | | Dimensions (m) Depth 2.00 | | 3.3  | | Scale 1:25 Logged RC |
| Client: Broxtowe Borough Council | | | | | | | | |
| Water Strike | Samples and In Situ Testing | | | Depth (m) | Level (m) | Legend | Stratum Description | |
| | Depth | Type | Results | | | | | |
| | 0.00 - 0.35 | B | | | |  | Brown slightly silty & slightly sandy CLAY LOAM | |
| | 0.35 - 0.90 | B | | 0.35 | -0.35 |  | Yellow sandy CLAY | |
| | 0.90 - 2.00 | B | | 0.90 | -0.90 |  | Yellow & grey slightly gravelly CLAY with occasional coal. | 1 |
| | | | | 2.00 | -2.00 |  | End of pit at 2.00 m | 2 |
| | | | | | | | | 3 |
| | | | | | | | | 4 |
| | | | | | | | | 5 |

Remarks:

Stability: Stable





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| | | | | <h1>Trial Pit Log</h1> | | | Trialpit No. TP#12 Sheet 1 of 1 | |
|--|-----------------------------|------|---------|------------------------|--------------|---------------------------|---|-----------------|
| Project Name: Eastwood Landfill | | | | Project No. 57629 | | Co-ords: - Level: 0.00 | | Date 27/03/2018 |
| Location: Eastwood Landfill, Nottinghamshire | | | | Dimensions (m) 3 | | Scale 1:25 | | Logged MC |
| Client: Broxtowe Borough Council | | | | Depth 2.00 | | | | |
| Water Strike | Samples and In Situ Testing | | | Depth (m) | Level (m) | Legend | Stratum Description | |
| | Depth | Type | Results | | | | | |
| | 0.00 - 0.35 | B | | | | | Brown slightly silty & slightly sandy CLAY LOAM | |
| | 0.35 - 0.75 | B | | 0.35 | -0.35 | | Yellowy brown silty & sandy CLAY | |
| | 0.75 - 2.00 | B | | 0.75 | -0.75 | | Yellow & grey laminated CLAY | |
| | | | | 2.00 | -2.00 | | End of pit at 2.00 m | |
| Remarks: | | | | | | | | |
| Stability: Stable | | | | | | | | |





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| | | | | <h1>Trial Pit Log</h1> | | | Trialpit No TP#13 Sheet 1 of 1 | |
|--|-----------------------------|------|---------|-------------------------------|--------------|---------------------------|--|-------------------------------|
| Project Name: Eastwood Landfill | | | | Project No. 57629 | | Co-ords: - Level: 0.00 | | Date 27/03/2018 |
| Location: Eastwood Landfill, Nottinghamshire | | | | Dimensions (m): Depth 2.10 | | 3 | | Scale 1:25 Logged MC |
| Client: Broxtowe Borough Council | | | | | | | | |
| Water Strike | Samples and In Situ Testing | | | Depth (m) | Level (m) | Legend | Stratum Description | |
| | Depth | Type | Results | | | | | |
| | 0.00 - 0.30 | B | | | | | Brown slightly silty & slightly sandy CLAY LOAM. | |
| | 0.30 - 0.65 | B | | 0.30 | -0.30 | | Yellow slightly sandy CLAY. | |
| | 0.65 - 2.00 | B | | 0.65 | -0.65 | | Yellow & grey CLAY. | |
| | | | | 2.00 | -2.00 | | Grey slightly gravely mottled CLAY. Gravels of mudstone. | |
| | | | | 2.10 | -2.10 | | End of pit at 2.10 m | |
| Remarks: | | | | | | | | |
| Stability: Stable | | | | | | | | |





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| | | | | <h1>Trial Pit Log</h1> | | | Trialpit No. TP#14 Sheet 1 of 1 | |
|-------------------|-----------------------------|------------------------------------|---------|------------------------|--------------|--------|---|---------------------------|
| Project Name: | | Eastwood Landfill | | Project No. | | 57629 | | Co-ords: - Level: 0.00 |
| Location: | | Eastwood Landfill, Nottinghamshire | | Dimensions (m): | | 2.8 | | Date 28/03/2018 |
| Client: | | Broxtowe Borough Council | | Depth | | 2.10 | | Scale 1:25 |
| | | | | | | | | Logged MC |
| Water Strike | Samples and In Situ Testing | | | Depth (m) | Level (m) | Legend | Stratum Description | |
| | Depth | Type | Results | | | | | |
| | 0.00 - 0.35 | B | | | | | Black slightly silty SANDY LOAM with occasional brick pottery & coal. | |
| | 0.35 - 1.10 | B | | 0.35 | 0.35 | | Yellow slightly silty CLAY. | |
| | 1.10 - 1.70 | B | | 1.10 | 1.10 | | Grey & yellow CLAY with lenses of black organic slightly silty CLAY | 1 |
| | 1.70 - 2.10 | B | | 1.70 | 1.70 | | Grey weathered MUDSTONE | |
| | | | | 2.10 | 2.10 | | End of pit at 2.10 m | 2 |
| | | | | | | | | 3 |
| | | | | | | | | 4 |
| | | | | | | | | 5 |
| Remarks: | | | | | | | | |
| Stability: Stable | | | | | | | | |



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| | | | | <h1>Trial Pit Log</h1> | | | Trialpit No. TP#15 Sheet 1 of 1 | | |
|--|-----------------------------|------|---------|------------------------|--------------|---------------------------|--|------------------|--|
| Project Name: Eastwood Landfill | | | | Project No. 57629 | | Co-ords: - Level: 0.00 | | Date: 28/03/2018 | |
| Location: Eastwood Landfill, Nottinghamshire | | | | Dimensions (m): 2.9 | | Scale: 1:25 | | Logged MC | |
| Client: Broxtowe Borough Council | | | | Depth: 1.65 | | | | | |
| Water Strike | Samples and In Situ Testing | | | Depth (m) | Level (m) | Legend | Stratum Description | | |
| | Depth | Type | Results | | | | | | |
| | 0.00 - 0.40 | B | | | | | Black slightly silty SANDY CLAY LOAM with occasional brick & coal. | | |
| | 0.40 - 0.80 | B | | 0.40 | -0.40 | | Yellow CLAY | | |
| | 0.80 - 1.50 | B | | 0.80 | -0.80 | | Grey slightly gravelly CLAY | | |
| | 1.50 - 1.65 | B | | 1.50 | -1.50 | | Yellow & grey weathered MUDSTONE | | |
| | | | | 1.65 | -1.65 | | End of pit at 1.65 m | | |
| Remarks: | | | | | | | | | |
| Stability: Stable | | | | | | | | | |





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| | | | | <h1>Trial Pit Log</h1> | | | Trialpit No. TP#16 Sheet 1 of 1 | | |
|-------------------|-----------------------------|------------------------------------|---------|------------------------|--------------|--------|---|----------|------------|
| Project Name: | | Eastwood Landfill | | Project No. | | 57629 | | Co-ords: | - |
| Location: | | Eastwood Landfill, Nottinghamshire | | Dimensions (m): | | 2.5 | | Date | 28/03/2018 |
| Client: | | Broxtowe Borough Council | | Depth | | 1.80 | | Scale | 1:25 |
| | | | | | | | | Logged | MC |
| Water Strike | Samples and In Situ Testing | | | Depth (m) | Level (m) | Legend | Stratum Description | | |
| | Depth | Type | Results | | | | | | |
| | 0.00 - 0.30 | B | | | | | Black slightly silty SANDY CLAY LOAM with occasional coal & glass | | |
| | 0.30 - 1.05 | B | | 0.30 | -0.30 | | Yellow & grey CLAY | | |
| | 1.05 - 1.80 | B | | 1.05 | -1.05 | | Yellowy grey & grey weathered MUDSTONE | | |
| | | | | 1.80 | -1.80 | | End of pit at 1.80 m | | |
| Remarks: | | | | | | | | | |
| Stability: Stable | | | | | | | | | |





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

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|  | | | | <h1>Trial Pit Log</h1> | | | Trialpit No TP#17 Sheet 1 of 1 | |
|---|-----------------------------|------|---------|------------------------------|--------------|--|---|-------------------------------|
| Project Name: Eastwood Landfill | | | | Project No. 57629 | | Co-ords: - Level: 0.00 | | Date 28/03/2018 |
| Location: Eastwood Landfill, Nottinghamshire | | | | Dimensions (m) Depth 1.90 | | 2.8  | | Scale 1:25 Logged MC |
| Client: Broxtowe Borough Council | | | | | | | | |
| Water Strike | Samples and In Situ Testing | | | Depth (m) | Level (m) | Legend | Stratum Description | |
| | Depth | Type | Results | | | | | |
| | 0.00 - 0.30 | B | | | |  | Brown slightly sandy & very silty CLAY LOAM | |
| | 0.30 - 0.75 | B | | 0.30 | -0.30 |  | Orange weathered MUDSTONE | |
| | 0.75 - 1.90 | B | | 0.75 | -0.75 |  | Grey weathered SANDSTONE | |
| | | | | 1.90 | -1.90 | | End of pit at 1.90 m | |
| Remarks: | | | | | | | | |
| Stability: Stable | | | | | | | | |





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18-218

Sheet No.

A2.40

Project.

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| | | | | <h1>Trial Pit Log</h1> | | | Trialpit No. TP#18 Sheet 1 of 1 | | |
|--|-----------------------------|------|---------|------------------------|--------------|---------------------------|--|------------------|--|
| Project Name: Eastwood Landfill | | | | Project No. 57629 | | Co-ords: - Level: 0.00 | | Date: 28/03/2018 | |
| Location: Eastwood Landfill, Nottinghamshire | | | | Dimensions (m): | | 2.9 | | Scale: 1:25 | |
| Client: Broxtowe Borough Council | | | | Depth: 2.00 | | | | Logged MC | |
| Water Strike | Samples and In Situ Testing | | | Depth (m) | Level (m) | Legend | Stratum Description | | |
| | Depth | Type | Results | | | | | | |
| | 0.00 - 0.50 | B | | | | | Black slightly silty SANDY CLAY LOAM with occasional coal, brick, & pottery. | | |
| | 0.50 - 1.60 | B | | 0.50 | -0.50 | | Yellow & grey CLAY | | |
| | 1.60 - 2.00 | B | | 1.60 | -1.60 | | Yellow & grey weathered MUDSTONE | | |
| | | | | 2.00 | -2.00 | | End of pit at 2.00 m | | |
| Remarks: | | | | | | | | | |
| Stability: Stable | | | | | | | | | |



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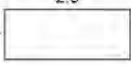




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|  | | | | <h1 style="margin: 0;">Trial Pit Log</h1> | | | Trialpit No TP#19 Sheet 1 of 1 | |
|---|-----------------------------|------|---------|---|--------------|--|--|-------------------------------|
| Project Name: Eastwood Landfill | | | | Project No. 57629 | | Co-ords: - Level: 0.00 | | Date 29/03/2018 |
| Location: Eastwood Landfill, Nottinghamshire | | | | Dimensions (m) Depth 2.20 | | 2.9  | | Scale 1:25 Logged MC |
| Client: Broxtowe Borough Council | | | | | | | | |
| Water Strike | Samples and In Situ Testing | | | Depth (m) | Level (m) | Legend | Stratum Description | |
| | Depth | Type | Results | | | | | |
| | 0.00 - 0.30 | B | | | |  | Brown slightly silty SANDY CLAY LOAM with occasional coal & pottery. | |
| | 0.30 - 0.80 | B | | 0.30 | -0.30 |  | Orange brown slightly sandy & silty CLAY. | |
| | 0.80 - 1.60 | B | | 0.80 | -0.80 |  | Orangey grey brown weathered SANDSTONE. | 1 |
| | 1.60 - 2.20 | B | | 1.60 | -1.60 |  | Orange SANDSTONE. | 2 |
| | | | | 2.20 | -2.20 | | End of pit at 2.20 m | 3 |
| | | | | | | | | 4 |
| | | | | | | | | 5 |

Remarks:

Stability: Stable





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| | | | | <h1>Trial Pit Log</h1> | | | Trialpit No TP#20 | | |
|--|-----------------------------|------|---------|------------------------|--------------|---------------------------|---|--------------------|--|
| Project Name: Eastwood Landfill | | | | Project No. 57629 | | Co-ords: - Level: 0.00 | | Date 29/03/2018 | |
| Location: Eastwood Landfill, Nottinghamshire | | | | Dimensions (m): | | 2.9 | | Scale 1:25 | |
| Client: Broxtowe Borough Council | | | | Depth 2.30 | | | | Logged MC | |
| Water Strike | Samples and In Situ Testing | | | Depth (m) | Level (m) | Legend | Stratum Description | | |
| | Depth | Type | Results | | | | | | |
| | 0.00 - 0.35 | B | | | | | Brown slightly silty SANDY CLAY LOAM with occasional coal & pottery | | |
| | 0.35 - 1.20 | B | | 0.35 | 0.35 | | Yellow slightly silty CLAY | | |
| | 1.20 - 1.90 | B | | 1.20 | -1.20 | | Grey & yellow layered & weathered MUDSTONE | | |
| | 1.90 - 2.30 | B | | 1.90 | -1.90 | | Orange SANDSTONE | | |
| | | | | 2.30 | -2.30 | End of pit at 2.30 m | | | |
| Remarks | | | | | | | | | |
| Stability: Stable | | | | | | | | | |



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| | | | | <h1>Trial Pit Log</h1> | | | Trialpit No TP#21 Sheet 1 of 1 | | |
|--|-----------------------------|------|---------|------------------------------|--------------|---------------------------|--|--------------------|--|
| Project Name: Eastwood Landfill | | | | Project No. 57629 | | Co-ords: - Level: 0.00 | | Date 29/03/2018 | |
| Location: Eastwood Landfill, Nottinghamshire | | | | Dimensions (m) Depth 2.05 | | 2.8 | | Scale 1:25 | |
| Client: Broxtowe Borough Council | | | | | | | | Logged MC | |
| Water Strike | Samples and In Situ Testing | | | Depth (m) | Level (m) | Legend | Stratum Description | | |
| | Depth | Type | Results | | | | | | |
| | 0.00 - 0.30 | B | | | | | | | |
| | 0.30 - 1.40 | B | | 0.30 | -0.30 | | Brown slightly silty SANDY CLAY LOAM with occasional coal & brick. | | |
| | | | | | | | Orangey brown slightly sandy silty CLAY. | | |
| | 1.40 - 2.05 | B | | 1.40 | -1.40 | | Orangey grey brown weathered SANDSTONE. | | |
| | | | | 2.05 | -2.05 | | End of pit at 2.05 m | | |
| Remarks: | | | | | | | | | |
| Stability: Stable | | | | | | | | | |





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

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|  | | | | <h1 style="margin: 0;">Trial Pit Log</h1> | | | Trialpit No. TP#22 Sheet 1 of 1 | |
|---|-----------------------------|------|-------------------|---|---------------------------|---|--|--|
| Project Name: Eastwood Landfill | | | Project No. 57629 | | Co-ords: - Level: 0.00 | | Date 29/03/2018 | |
| Location: Eastwood Landfill, Nottinghamshire | | | | | Dimensions (m): 2.9 | | Scale 1:25 | |
| Client: Broxtowe Borough Council | | | | | Depth 2.80 | | Logged MC | |
| Water Strike | Samples and In Situ Testing | | | Depth (m) | Level (m) | Legend | Stratum Description | |
| | Depth | Type | Results | | | | | |
| | 0.00 - 0.30 | B | | | |  | Brown slightly silty slightly sandy CLAY LOAM. | |
| | 0.30 - 0.50 | B | | 0.30 | -0.30 |  | Yellow & grey CLAY. | |
| | 1.05 - 2.80 | B | | 1.05 | -1.05 |  | Grey weathered MUDSTONE. | |
| | | | | 2.80 | 2.80 | End of pit at 2.80 m | | |

Remarks:

Stability: Stable





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| kiwa | | | | Trial Pit Log | | | Trialpit No TP#23 Sheet 1 of 1 | | |
|-----------------|-----------------------------|------------------------------------|---------|-----------------------|----------------|---------------------------|---|-------------------------------|---|
| Project Name: | | Eastwood Landfill | | Project No. 57629 | | Co-ords: - Level: 0.00 | | Date 29/03/2018 | |
| Location: | | Eastwood Landfill, Nottinghamshire | | Dimensions (m) 2.9 | | Depth 2.50 | | Scale 1:25 Logged MC | |
| Client: | | Broxtowe Borough Council | | | | | | | |
| Water Strike | Samples and In Situ Testing | | | Depth (m) | Level (m) | Legend | Stratum Description | | |
| | Depth | Type | Results | | | | | | |
| | 0.00 - 0.30 | B | | | | | Brown slightly silty SANDY CLAY LOAM | | |
| | 0.30 - 1.00 | B | | 0.30 | -0.30 | | Yellow CLAY | | |
| | 1.00 - 1.90 | B | | 1.00 | -1.00 | | Grey laminated CLAY | | 1 |
| | 2.00 - 2.50 | B | | 1.90 2.00 | -1.90 -2.00 | | COAL Grey weathered MUDSTONE | | 2 |
| | | | | 2.50 | -2.50 | | End of pit at 2.50 m | | 3 |
| | | | | | | | | | 4 |
| | | | | | | | | | 5 |

Remarks:

Stability: Stable

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| | | | | <h1>Trial Pit Log</h1> | | | Trialpit No TP#24 Sheet 1 of 1 | |
|--|-----------------------------|------|---------|------------------------|--------------|--------------------------|---|-----------------|
| Project Name: Eastwood Landfill | | | | Project No. 57629 | | Co-ords: - Level 0.00 | | Date 29/03/2018 |
| Location: Eastwood Landfill, Nottinghamshire | | | | Dimensions (m): | | 3.2 | | Scale 1:25 |
| Client: Broxtowe Borough Council | | | | Depth 2.50 | | | | Logged MC |
| Water Strike | Samples and In Situ Testing | | | Depth (m) | Level (m) | Legend | Stratum Description | |
| | Depth | Type | Results | | | | | |
| | 0.00 - 0.30 | B | | | | | Brown slightly silty SANDY CLAY LOAM | |
| | 0.30 - 0.60 | B | | 0.30 | -0.30 | | Yellow CLAY | |
| | 0.60 - 2.20 | B | | 0.60 | -0.60 | | Grey laminated CLAY | |
| | | | | 2.20 | -2.20 | | COAL | |
| | | | | 2.40 | -2.40 | | Grey weathered MUDSTONE | |
| | | | | 2.50 | -2.50 | | End of pit at 2.50 m | |
| Remarks: | | | | | | | | |
| Stability: Stable | | | | | | | | |





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Appendix 2

CONTENTS

ANALYSIS FOR PLASTICITY INDEX
ANALYSIS FOR PH VALUES & SULFATE LEVELS



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57629

Certificate of Analysis for Plasticity Index & Water Content

Client: Broxtowe Borough Council

Site: Eastwood

Lab Ref: 57629

Date of Test: 29-30/04/18

Test Methods: BS 1377: 1990: Part 2: Clauses 4.4 and 5 - Liquid Limit/Plastic Limit/Plasticity Index
BS EN ISO 17892-1:2014 - Water Content

Results:

| Sample Ref | Material Description | LL (%) | PL (%) | PI (%) | % Retained on 425µm | Modified PI (%)* | Soil Classification | WC (%) |
|---------------|--|--------|--------|--------|------------------------|---------------------|------------------------|--------|
| 57629/TP1-D3 | Yellow and grey CLAY | 39 | 20 | 19 | 31 | 13 | CI | 13.6 |
| 57629/TP2-D3 | Grey CLAY | 53 | 26 | 27 | 3 | 26 | CH | 18.7 |
| 57629/TP3-D2 | Grey and yellowy brown CLAY | 46 | 24 | 22 | 3 | 21 | CI | 19.8 |
| 57629/TP4-D2 | Yellow and grey CLAY | 45 | 23 | 22 | 4 | 21 | CI | 19.7 |
| 57629/TP5-D2 | Yellow and grey slightly gravelly CLAY. Gravels of weathered sandstone. | 51 | 28 | 23 | 4 | 22 | CH/MH | 30.2 |
| 57629/TP7-D2 | Yellow slightly sandy CLAY | 27 | 16 | 11 | 4 | 10 | CL | 13.2 |
| 57629/TP8-D2 | Yellow and grey slightly sandy CLAY | 32 | 18 | 14 | 13 | 6 | CL | 15.0 |
| 57629/TP9-D2 | Yellow and orange sandy CLAY | 32 | 17 | 15 | 14 | 4 | CL | 15.6 |
| 57629/TP10-D3 | Yellow laminated sandy CLAY | 33 | 18 | 15 | 15 | 1 | CL | 13.6 |

The samples tested were disturbed and in their natural condition.

* Modified plasticity index relates to BRE Digest 240.

LL = Liquid Limit

PL = Plastic Limit

PI = Plasticity Index

WC = Water Content

BRE Digest 240 is not included in the UKAS schedule for this Laboratory.



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Document Ref.

57629

Certificate of Analysis for Plasticity Index & Water Content

Client: Broxtowe Borough Council

Site: Eastwood

Lab Ref: 57629

Date of Test: 29-30/04/18

Test Methods: BS 1377: 1990: Part 2: Clauses 4.4 and 5 - Liquid Limit/Plastic Limit/Plasticity Index
BS EN ISO 17892-1:2014 - Water Content

Results:

| Sample Ref | Material Description | LL (%) | PL (%) | PI (%) | % Retained on 425µm | Modified PI (%)* | Soil Classification | WC (%) |
|---------------|--|--------|--------|--------|------------------------|---------------------|------------------------|--------|
| 57629/TP11-D3 | Yellow and grey slightly gravelly CLAY with occasional coal | 31 | 8 | 23 | 1 | 23 | CL | 16.7 |
| 57629/TP12-D3 | Yellow and grey laminated CLAY | 45 | 23 | 22 | 2 | 22 | CI | 20.3 |
| 57629/TP13-D3 | Yellow and grey CLAY | 40 | 21 | 19 | 2 | 19 | CI | 21.0 |
| 57629/TP14-D3 | Grey and yellow CLAY with lenses of black organic slightly silty CLAY | 53 | 27 | 26 | 7 | 24 | CH | 35.2 |
| 57629/TP15-D3 | Grey slightly gravelly CLAY | 64 | 29 | 35 | 8 | 32 | CH | 20.0 |
| 57629/TP18-D2 | Yellow and grey CLAY | 32 | 18 | 14 | 2 | 14 | CL | 19.1 |
| 57629/TP19-D2 | Orange brown slightly sandy and silty CLAY | 30 | 9 | 21 | 2 | 21 | CL | 20.0 |
| 57629/TP20-D3 | Grey and yellow layered and weathered MUDSTONE | 42 | 21 | 21 | 5 | 20 | CI | 17.7 |
| 57629/TP21-D2 | Orangey brown slightly sandy silty CLAY | 29 | 17 | 12 | 3 | 12 | CL | 18.8 |

The samples tested were disturbed and in their natural condition.

* Modified plasticity index relates to BRE Digest 240.

LL = Liquid Limit

PL = Plastic Limit

PI = Plasticity Index

WC = Water Content

BRE Digest 240 is not included in the UKAS schedule for this Laboratory.



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Certificate of Analysis for Plasticity Index & Water Content

Client: Broxtowe Borough Council

Site: Eastwood

Lab Ref: 57629

Date of Test: 29-30/04/18

Test Methods: BS 1377: 1990: Part 2: Clauses 4.4 and 5 - Liquid Limit/Plastic Limit/Plasticity Index
BS EN ISO 17892-1:2014 - Water Content

Results:

| Sample Ref | Material Description | LL (%) | PL (%) | PI (%) | % Retained on 425µm | Modified PI (%)* | Soil Classification | WC (%) |
|---------------|----------------------|--------|--------|--------|------------------------|---------------------|------------------------|--------|
| 57629/TP22-D2 | Yellow and grey CLAY | 55 | 12 | 43 | 5 | 41 | CH | 24.5 |
| 57629/TP24-D3 | Grey laminated CLAY | 43 | 23 | 20 | 2 | 20 | CI | 19.7 |

The samples tested were disturbed and in their natural condition.

* Modified plasticity index relates to BRE Digest 240.

LL = Liquid Limit

PL = Plastic Limit

PI = Plasticity Index

WC = Water Content

BRE Digest 240 is not included in the UKAS schedule for this Laboratory.



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Sheet No.

A3.4

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| sample reference | pH pH Units | 2:1 sulfate g/l | nitrate g/l | chloride g/l | water sulfate mg/l | DS Class | ACEC Class |
|------------------|----------------|--------------------|----------------|-----------------|-----------------------|----------|------------|
| TP#1-1 | 6.1 | 0.0174 | | | | DS-1 | AC-1 |
| TP#1-2 | 6.24 | 0.0928 | | | | DS-1 | AC-2z |
| TP#1-3 | 5.58 | 0.0362 | | | | DS-1 | AC-2z |
| TP#2-1 | 6.42 | 0.0212 | | | | DS-1 | AC-2z |
| TP#2-2 | 5.87 | 0.0967 | | | | DS-1 | AC-2z |
| TP#2-3 | 6.69 | 0.0347 | | | | DS-1 | AC-1 |
| TP#2-5 | 6.78 | 0.0456 | | | | DS-1 | AC-1 |
| TP#3-1 | 6.29 | 0.0202 | | | | DS-1 | AC-2z |
| TP#3-2 | 6.86 | 0.017 | <0.0025 | <0.002 | | DS-1 | AC-1 |
| TP#4-1 | 6.43 | 0.0228 | | | | DS-1 | AC-2z |
| TP#4-2 | 5.21 | 0.0946 | <0.0025 | <0.002 | | DS-1 | AC-3z |
| TP#4-4 | 5.68 | 0.0119 | | | | DS-1 | AC-2z |
| TP#5-1 | 6.39 | 0.0136 | | | | DS-1 | AC-2z |
| TP#5-2 | 6.41 | 0.0159 | 0.0033 | 0.004 | | DS-1 | AC-2z |
| TP#6-1 | 6.88 | 0.0246 | | | | DS-1 | AC-1 |
| TP#6-2 | 7.68 | 0.0207 | | | | DS-1 | AC-1 |
| TP#7-1 | 6.23 | 0.0022 | | | | DS-1 | AC-2z |
| TP#7-2 | 5.91 | 0.0174 | <0.0025 | <0.002 | | DS-1 | AC-2z |
| TP#8-1 | 6.48 | 0.011 | | | | DS-1 | AC-2z |
| TP#8-2 | 6.57 | 0.0182 | <0.0025 | <0.002 | | DS-1 | AC-1 |
| TP#8-3 | 5.4 | 0.0152 | <0.0025 | <0.002 | | DS-1 | AC-3z |
| TP#9-1 | 6.71 | 0.0123 | | | | DS-1 | AC-1 |
| TP#9-2 | 7.15 | 0.0084 | <0.0025 | <0.002 | | DS-1 | AC-1 |
| TP#10-1 | 6.48 | 0.0076 | | | | DS-1 | AC-1 |
| TP#10-2 | 6.9 | 0.0075 | | | | DS-1 | AC-1 |
| TP#10-3 | 7.13 | 0.0053 | | | | DS-1 | AC-1 |
| TP#11-1 | 6.29 | 0.0134 | | | | DS-1 | AC-2z |
| TP#11-2 | 5.97 | 0.0186 | | | | DS-1 | AC-2z |
| TP#11-3 | 5.64 | 0.0074 | | | | DS-1 | AC-2z |
| TP#12-1 | 6.39 | 0.0235 | | | | DS-1 | AC-2z |
| TP#12-2 | 6.48 | 0.0319 | 0.0025 | 0.011 | | DS-1 | AC-2z |
| TP#12-3 | 5.28 | 0.0621 | | | | DS-1 | AC-3z |
| TP#13-1 | 6.77 | 0.0211 | | | | DS-1 | AC-1 |
| TP#13-2 | 6.94 | 0.0176 | | | | DS-1 | AC-1 |
| TP#13-3 | 5.28 | 0.042 | <0.0025 | 0.007 | | DS-1 | AC-3z |
| TP#14-1 | 6.36 | 0.013 | | | | DS-1 | AC-2z |
| TP#14-2 | 5.84 | 0.0807 | | | | DS-1 | AC-2z |
| TP#14-3 | 7.29 | 0.0246 | | | | DS-1 | AC-1 |
| TP#15-1 | 6.18 | 0.038 | | | | DS-1 | AC-2z |
| TP#15-2 | 7.43 | 0.0633 | | | | DS-1 | AC-1 |
| TP#15-3 | 7.45 | 0.1503 | | | | DS-1 | AC-1 |
| TP#16-1 | 6.75 | 0.0162 | | | | DS-1 | AC-1 |
| TP#16-2 | 7.19 | 0.0083 | | | | DS-1 | AC-1 |
| TP#17-1 | 5.93 | 0.0281 | | | | DS-1 | AC-2z |
| TP#17-2 | 6.29 | 0.0199 | | | | DS-1 | AC-2z |
| TP#18-1 | 6.42 | 0.0102 | | | | DS-1 | AC-2z |
| TP#18-2 | 7.04 | 0.0108 | <0.0025 | <0.002 | | DS-1 | AC-1 |
| TP#19-1 | 6.09 | 0.0065 | | | | DS-1 | AC-2z |
| TP#19-2 | 6.8 | 0.0141 | 0.0046 | <0.002 | | DS-1 | AC-1 |
| TP#20-1 | 6.33 | 0.0103 | | | | DS-1 | AC-2z |
| TP#20-2 | 7.3 | 0.0137 | <0.0025 | <0.002 | | DS-1 | AC-1 |
| TP#20-3 | 6.35 | 0.0303 | | | | DS-1 | AC-2z |
| TP#21-1 | 6.19 | 0.0697 | | | | DS-1 | AC-2z |
| TP#21-2 | 7.2 | 0.0067 | 0.005 | <0.002 | | DS-1 | AC-1 |
| TP#22-1 | 7.39 | 0.0202 | | | | DS-1 | AC-1 |
| TP#22-2 | 7.33 | 0.0415 | <0.0025 | <0.002 | | DS-1 | AC-1 |
| TP#22-3 | 7.6 | 0.0961 | | | | DS-1 | AC-1 |
| TP#23-1 | 6.46 | 0.0287 | | | | DS-1 | AC-2z |
| TP#23-2 | 6.59 | 0.0499 | | | | DS-1 | AC-1 |
| TP#23-3 | 6.74 | 0.0074 | | | | DS-1 | AC-1 |
| TP#24-1 | 6.58 | 0.0134 | | | | DS-1 | AC-1 |
| TP#24-2 | 5.11 | 0.0516 | | | | DS-1 | AC-3z |
| TP#24-3 | 5.47 | 0.0361 | <0.0025 | 0.003 | | DS-1 | AC-3z |



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Date.

May 2018

Project No.

18-218

Sheet No.

A3.5

Project.

KIWA CMT TESTING LIMITED
Eastwood Landfill, Nottinghamshire

By.

KL

Checked.

NH

Document Ref.

57629

| | | | | | | | |
|-------|------|--|--|--|-------|------|------|
| BH#1 | 6.99 | | | | 564.8 | DS-2 | AC-2 |
| BH#2 | 6.97 | | | | 66.8 | DS-1 | AC-1 |
| BH#3 | 6.83 | | | | 203.9 | DS-1 | AC-1 |
| BH#4 | 6.83 | | | | 47.2 | DS-1 | AC-1 |
| BH#5 | 6.63 | | | | 67.6 | DS-1 | AC-1 |
| BH#6 | 7.03 | | | | 107.2 | DS-1 | AC-1 |
| BH#7 | 7.27 | | | | 627.8 | DS-2 | AC-2 |
| BH#8 | 7.81 | | | | 735.8 | DS-2 | AC-2 |
| BH#11 | 7.59 | | | | 190.3 | DS-1 | AC-1 |
| BH#12 | 7.08 | | | | 49.4 | DS-1 | AC-1 |
| BH#13 | 7.45 | | | | 126.1 | DS-1 | AC-1 |
| BH#14 | 7.78 | | | | 144.6 | DS-1 | AC-1 |
| BH#15 | 6.66 | | | | 127.8 | DS-1 | AC-1 |
| BH#17 | 6.7 | | | | 291 | DS-1 | AC-1 |
| BH#18 | 6.55 | | | | 172.9 | DS-1 | AC-1 |
| BH#19 | 6.96 | | | | 735.7 | DS-2 | AC-2 |
| BH#21 | 7.13 | | | | 58.1 | DS-1 | AC-1 |
| BH#22 | 6.95 | | | | 119.4 | DS-1 | AC-1 |

Appendix R

Human Health Generic Assessment Criteria

| Substance | Residential & Home Grown | Residential No Home Grown | Allotments | Commercial | Public Open Space 1 (Resi) | Public Open Space 2 (Park) | Reference |
|------------------------|-----------------------------|------------------------------|------------|---------------|-------------------------------|-------------------------------|-----------|
| Arsenic | 37 | 40 | 49 | 640 | 79 | 170 | C4SL |
| Arsenic (Inorganic) | 37 | 40 | 43 | 640 | 79 | 170 | S4UL |
| Beryllium | 1.7 | 1.7 | 35 | 12 | 2.2 | 63 | S4UL |
| Boron | 290 | 11000 | 45 | 240000 | 21000 | 46000 | S4UL |
| Cadmium | 22 | 150 | 3.9 | 410 | 220 | 880 | C4SL |
| Cadmium | 11 | 85 | 1.9 | 190 | 120 | 532 | S4UL |
| Chromium VI | 21 | 21 | 170 | 49 | 21 | 250 | C4SL |
| Chromium VI | 6 | 6 | 1.8 | 33 | 7.7 | 220 | S4UL |
| Chromium III | 910 | 910 | 18000 | 8600 | 1500 | 33000 | S4UL |
| Copper | 2400 | 7100 | 520 | 68000 | 12000 | 44000 | S4UL |
| Lead | 200 | 310 | 80 | 2300 | 630 | 1300 | C4SL |
| Mercury (Inorganic) | 40 | 56 | 19 | 1100 | 120 | 140 | S4UL |
| Mercury (Elemental) | 1.2 | 1.2 | 21 | 58 (28.5 vap) | 16 | 30 (25.8) | S4UL |
| Mercury (methyl) | 11 | 15 | 6 | 320 | 40 | 68 | S4UL |
| Nickel | 180 | 180 | 230 | 980 | 230 | 3400 | S4UL |
| Selenium | 250 | 430 | 88 | 12000 | 1100 | 1800 | S4UL |
| Vanadium | 410 | 1200 | 91 | 9000 | 2000 | 5000 | S4UL |
| Zinc | 3700 | 40000 | 620 | 730000 | 81000 | 170000 | S4UL |

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| Substance | Residential & Home Grown | Residential No Home Grown | Allotments | Commercial | Public Open Space 1 (Resi) | Public Open Space 2 (Park) | % SOM | Reference |
|--------------|-----------------------------|------------------------------|-------------------------|---|-------------------------------|--|---------------|-----------|
| Benzene | 0.87 | 3.3 | 0.18 | 98 | 140 | 230 | | C4SL |
| Benzene | 0.087 0.17 0.37 | 0.38 0.7 1.4 | 0.017 0.034 0.075 | 27 47 90 | 72 72 73 | 90 100 110 | 1 2.5 6 | S4UL |
| Toluene | 130 290 660 | 880 1900 3900 | 22 51 120 | 56000 (869 vap) 110000 (1920 vap) 180000 (4360 vap) | 56000 56000 56000 | 87000 (869 vap) 95000 (1920 vap) 100000 (4360 vap) | 1 2.5 6 | S4UL |
| Ethylbenzene | 47 110 260 | 83 190 440 | 16 39 91 | 5700 (518 vap) 13000 (1220 vap) 27000 (2840 vap) | 24000 24000 25000 | 17000 (518 vap) 22000 (1220 vap) 27000 (2840 vap) | 1 2.5 6 | S4UL |
| Xylenes | 56 130 310 | 79 180 430 | 28 67 160 | 5900 14000 30000 | 41000 42000 43000 | 17000 23000 31000 | 1 2.5 6 | S4UL |

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| Substance | Residential & Home Grown | Residential No Home Grown | Allotments | Commercial | Public Open Space 1 (Resi) | Public Open Space 2 (Park) | % SOM | Reference |
|-----------------------------|-----------------------------|------------------------------|------------|------------|-------------------------------|-------------------------------|----------|-----------|
| Acenaphthene | 210 | 3000 | 34 | 84000 | 15000 | 29000 | 1 | S4UL |
| | 510 | 4700 | 85 | 97000 | 15000 | 30000 | 2.5 | |
| | 1100 | 6000 | 200 | 100000 | 15000 | 30000 | 6 | |
| Acenaphthylene | 170 | 2900 | 28 | 83000 | 15000 | 29000 | 1 | S4UL |
| | 420 | 4600 | 69 | 97000 | 15000 | 30000 | 2.5 | |
| | 920 | 6000 | 160 | 100000 | 15000 | 30000 | 6 | |
| Anthracene | 2400 | 31000 | 380 | 520000 | 74000 | 150000 | 1 | S4UL |
| | 5400 | 35000 | 950 | 540000 | 74000 | 150000 | 2.5 | |
| | 11000 | 37000 | 2200 | 540000 | 74000 | 150000 | 6 | |
| Benzo(a)anthracene | 7.2 | 11 | 2.9 | 170 | 29 | 49 | 1 | S4UL |
| | 11 | 14 | 6.5 | 170 | 29 | 56 | 2.5 | |
| | 13 | 15 | 13 | 180 | 29 | 62 | 6 | |
| Benzo(a)pyrene | 2.2 | 3.2 | 0.97 | 35 | 5.7 | 11 | 1 | S4UL |
| | 2.7 | 3.2 | 2 | 35 | 5.7 | 12 | 2.5 | |
| | 3 | 3.2 | 3.5 | 36 | 5.7 | 13 | 6 | |
| Benzo(a)pyrene | 5 | 5.3 | 5.7 | 77 | 10 | 21 | | C4SL |
| Benzo(b)fluoranthene | 2.6 | 3.9 | 0.99 | 44 | 7.1 | 13 | 1 | S4UL |
| | 3.3 | 4 | 2.1 | 44 | 7.2 | 15 | 2.5 | |
| | 3.7 | 4 | 3.9 | 45 | 7.2 | 16 | 6 | |
| Benzo(ghi)perylene | 320 | 360 | 290 | 3900 | 640 | 1400 | 1 | S4UL |
| | 340 | 360 | 470 | 4000 | 640 | 1500 | 2.5 | |
| | 350 | 360 | 640 | 4000 | 640 | 1600 | 6 | |
| Benzo(k)fluoranthene | 77 | 110 | 37 | 1200 | 190 | 370 | 1 | S4UL |
| | 93 | 110 | 75 | 1200 | 190 | 410 | 2.5 | |
| | 100 | 110 | 130 | 1200 | 190 | 440 | 6 | |
| Chrysene | 15 | 30 | 4.1 | 350 | 57 | 93 | 1 | S4UL |
| | 22 | 31 | 9.4 | 350 | 57 | 110 | 2.5 | |
| | 27 | 32 | 19 | 350 | 57 | 120 | 6 | |
| Dibenz(ah)anthracene | 0.24 | 0.31 | 0.14 | 3.5 | 0.57 | 1.1 | 1 | S4UL |
| | 0.28 | 0.32 | 0.27 | 3.6 | 0.57 | 1.3 | 2.5 | |
| | 0.3 | 0.32 | 0.43 | 3.6 | 0.58 | 1.4 | 6 | |
| Fluoranthene | 280 | 1500 | 52 | 23000 | 3100 | 6300 | 1 | S4UL |
| | 560 | 1600 | 130 | 23000 | 3100 | 6300 | 2.5 | |
| | 890 | 1600 | 290 | 23000 | 3100 | 6300 | 6 | |
| Fluorene | 170 | 2800 | 27 | 63000 | 9900 | 20000 | 1 | S4UL |
| | 400 | 3800 | 67 | 68000 | 9900 | 20000 | 2.5 | |
| | 860 | 4500 | 160 | 71000 | 9900 | 20000 | 6 | |
| Indeno(123cd)pyrene | 27 | 45 | 9.5 | 500 | 82 | 150 | | S4UL |
| | 36 | 46 | 21 | 510 | 82 | 170 | | |
| | 41 | 46 | 39 | 510 | 82 | 180 | | |
| Naphthalene | 2.3 | 2.3 | 4.1 | 190 | 4900 | 1200 | 1 | S4UL |
| | 5.6 | 5.6 | 10 | 460 | 4900 | 1900 | 2.5 | |
| | 13 | 13 | 24 | 1100 | 4900 | 3000 | 6 | |
| Phenanthrene | 95 | 1300 | 15 | 22000 | 3100 | 6200 | 1 | S4UL |
| | 220 | 1500 | 38 | 22000 | 3100 | 6200 | 2.5 | |
| | 440 | 1500 | 90 | 23000 | 3100 | 6300 | 6 | |
| Pyrene | 620 | 3700 | 110 | 54000 | 7400 | 15000 | 1 | S4UL |
| | 1200 | 3800 | 270 | 54000 | 7400 | 15000 | 2.5 | |
| | 2000 | 3800 | 620 | 54000 | 7400 | 15000 | 6 | |
| Coal Tar (BaP surrogate) | 0.79 | 1.2 | 0.32 | 15 | 2.2 | 4.4 | 1 | S4UL |
| | 0.98 | 1.2 | 0.67 | 15 | 2.2 | 4.7 | 2.5 | |
| | 1.1 | 1.2 | 1.2 | 15 | 2.2 | 4.8 | 6 | |

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| TPH BAND | Residential & Home Grown | Residential No Home Grown | Allotments | Commercial | Public Open Space 1 (Resi) | Public Open Space 2 (Park) | % SOM | Reference |
|--------------------------------|-----------------------------|------------------------------|------------|-------------------|-------------------------------|-------------------------------|----------|-----------|
| Aliphatic EC>5-6 | 42 | 42 | 730 | 3200 | 570000 | 95000 | 1 | S4UL |
| | 78 | 78 | 1700 | 5900 | 590000 | 130000 | 2.5 | |
| | 160 | 160 | 3900 | 12000 | 600000 | 180000 | 6 | |
| EC>6-8 | 100 | 100 | 2300 | 7800 | 600000 | 150000 | 1 | S4UL |
| | 230 | 230 | 5600 | 17000 | 610000 | 220000 | 2.5 | |
| | 530 | 530 | 13000 | 40000 | 620000 | 320000 | 6 | |
| EC>8-10 | 27 | 27 | 320 | 2000 | 13000 | 14000 | 1 | S4UL |
| | 65 | 65 | 770 | 48000 (190 vap) | 13000 | 18000 (190 vap) | 2.5 | |
| | 150 | 150 | 1700 | 11000 (451 vap) | 13000 | 21000 (451 vap) | 6 | |
| EC>10-12 | 130 (48 vap) | 130 (48 vap) | 2200 | 9700 | 13000 | 21000 | 1 | S4UL |
| | 330 (118 vap) | 330 (118 vap) | 4400 | 23000 (118 vap) | 13000 | 23000 (118 vap) | 2.5 | |
| | 760 (283 vap) | 770 (283 vap) | 7300 | 47000 (283 vap) | 13000 | 24000 (283 vap) | 6 | |
| EC>12-16 | 1100 | 1100 | 11000 | 59000 | 13000 | 25000 | 1 | S4UL |
| | 2400 | 2400 | 13000 | 82000 | 13000 | 25000 | 2.5 | |
| | 4300 | 4400 | 13000 | 90000 | 13000 | 26000 | 6 | |
| EC>16-35 | 65000 | 65000 | 260000 | 1600000 | 250000 | 450000 | 1 | S4UL |
| | 92000 | 92000 | 270000 | 1700000 | 250000 | 480000 | 2.5 | |
| | 110000 | 110000 | 270000 | 1800000 | 250000 | 490000 | 6 | |
| EC>35-44 | 65000 | 65000 | 260000 | 1600000 | 250000 | 450000 | 1 | S4UL |
| | 92000 | 92000 | 270000 | 1700000 | 250000 | 480000 | 2.5 | |
| | 110000 | 110000 | 270000 | 1800000 | 250000 | 490000 | 6 | |
| Aromatic EC>5-7 | 70 | 370 | 13 | 26000 | 56000 | 76000 | 1 | S4UL |
| | 140 | 690 | 27 | 46000 | 56000 | 84000 | 2.5 | |
| | 300 | 1400 | 57 | 86000 | 56000 | 92000 | 6 | |
| EC>7-8 | 130 | 860 | 22 | 56000 (869 vap) | 56000 | 87000 (869 vap) | 1 | S4UL |
| | 290 | 1800 | 51 | 110000 | 56000 | 95000 | 2.5 | |
| | 660 | 3900 | 120 | 180000 (4360 vap) | 56000 | 100000 (4360 vap) | 6 | |
| EC>8-10 | 34 | 47 | 8.6 | 3500 (613 vap) | 5000 | 9200 | 1 | S4UL |
| | 83 | 110 | 21 | 8100 (1500 vap) | 5000 | 9700 | 2.5 | |
| | 190 | 270 | 51 | 17000 (3580 vap) | 5000 | 10000 | 6 | |
| EC>10-12 | 74 | 250 | 13 | 16000 | 5000 | 10000 | 1 | S4UL |
| | 180 | 590 | 31 | 28000 | 5000 | 10000 | 2.5 | |
| | 380 | 1200 | 74 | 34000 | 5000 | 10000 | 6 | |
| EC>12-16 | 140 | 1800 | 23 | 36000 | 5100 | 7600 | 1 | S4UL |
| | 330 | 2300 | 57 | 37000 | 5100 | 7700 | 2.5 | |
| | 660 | 2500 | 130 | 38000 | 5000 | 7800 | 6 | |
| Aromatic EC>16-21 | 260 | 1900 | 46 | 28000 | 3800 | 7800 | 1 | S4UL |
| | 540 | 1900 | 110 | 28000 | 3800 | 7800 | 2.5 | |
| | 930 | 1900 | 260 | 28000 | 3800 | 7900 | 6 | |
| EC>21-35 | 1100 | 1900 | 370 | 28000 | 3800 | 7800 | 1 | S4UL |
| | 1500 | 1900 | 820 | 28000 | 3800 | 7800 | 2.5 | |
| | 1700 | 1900 | 1600 | 28000 | 3800 | 7900 | 6 | |
| EC>35-44 | 1100 | 1900 | 370 | 28000 | 3800 | 7800 | 1 | S4UL |
| | 1500 | 1900 | 820 | 28000 | 3800 | 7800 | 2.5 | |
| | 1700 | 1900 | 1600 | 28000 | 3800 | 7900 | 6 | |
| Aliphatic+Aromatic EC>44-70 | 1600 | 1900 | 1200 | 28000 | 3800 | 7800 | 1 | S4UL |
| | 1800 | 1900 | 2100 | 28000 | 3800 | 7800 | 2.5 | |
| | 1900 | 1900 | 3000 | 28000 | 3800 | 7900 | 6 | |

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Appendix S

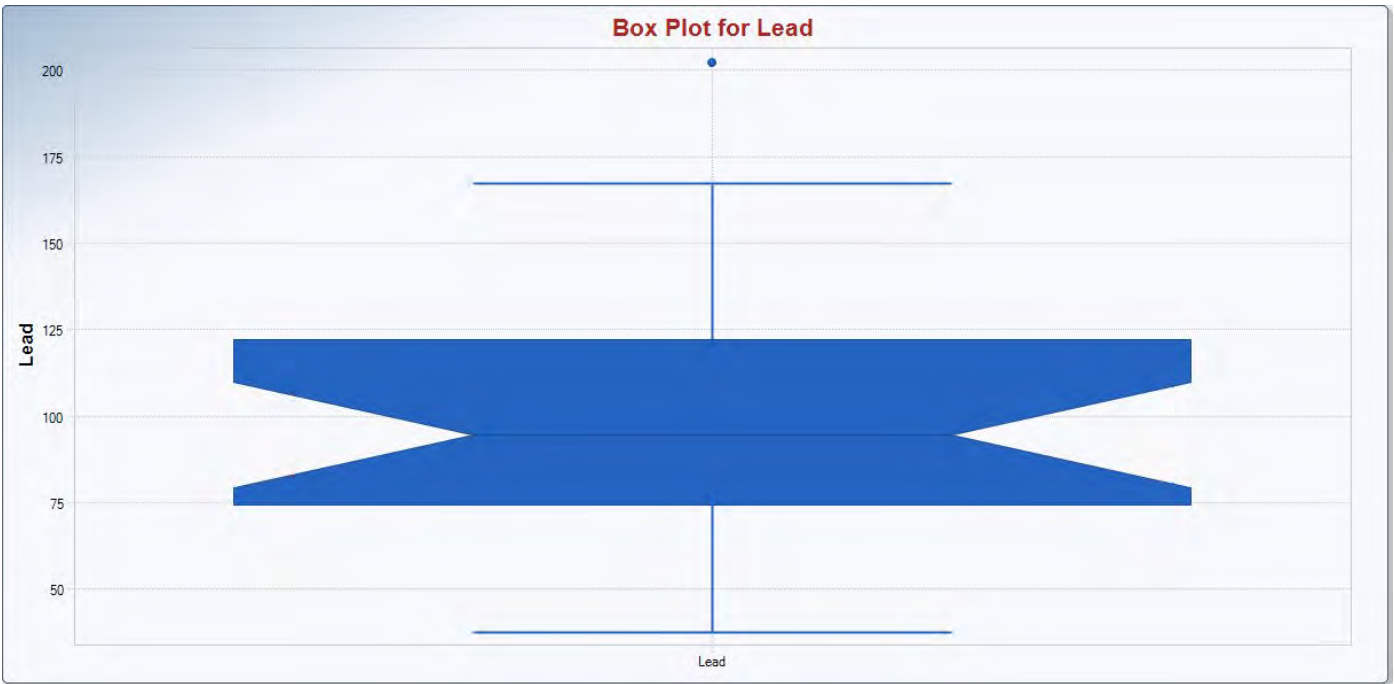
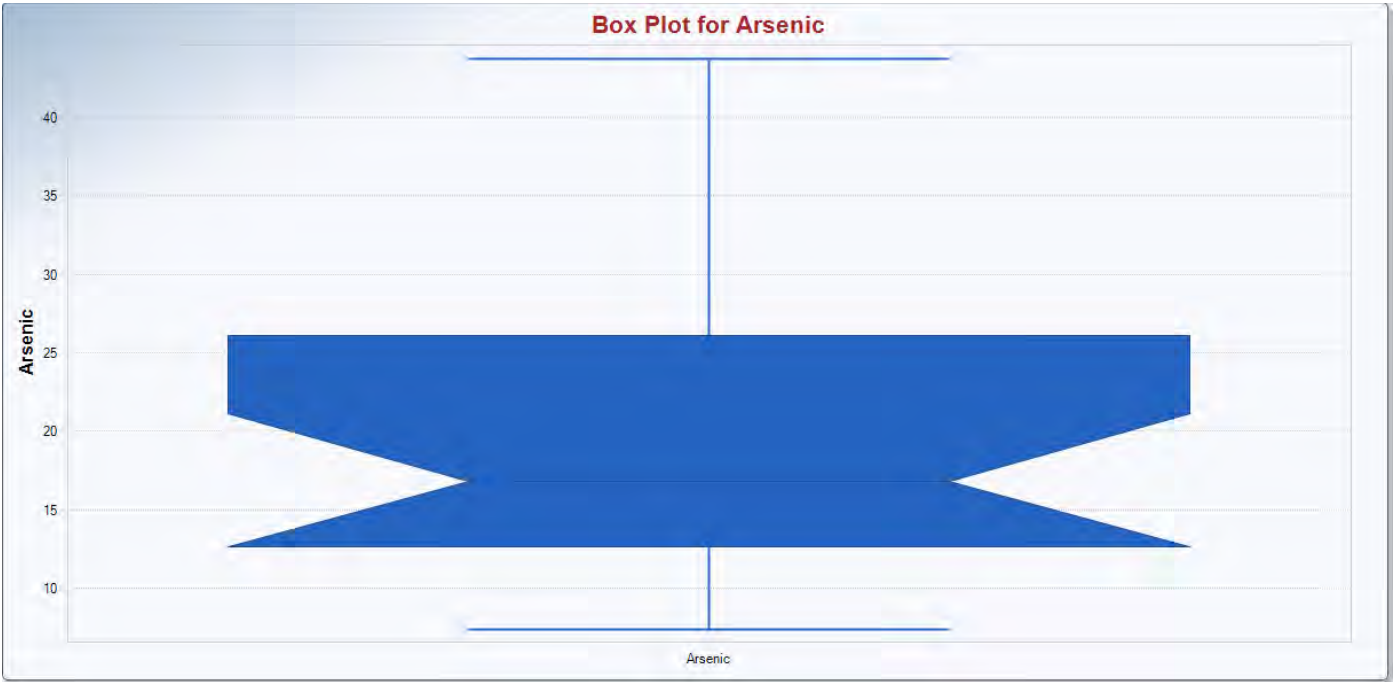
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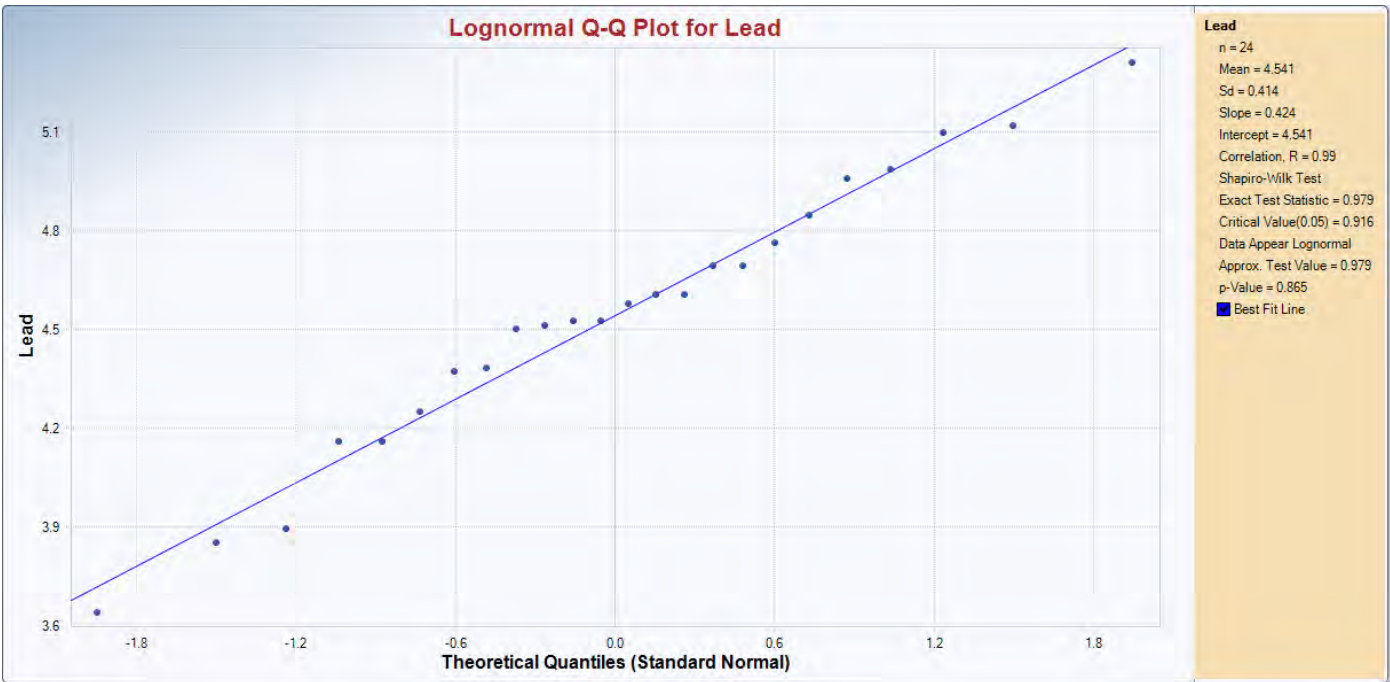
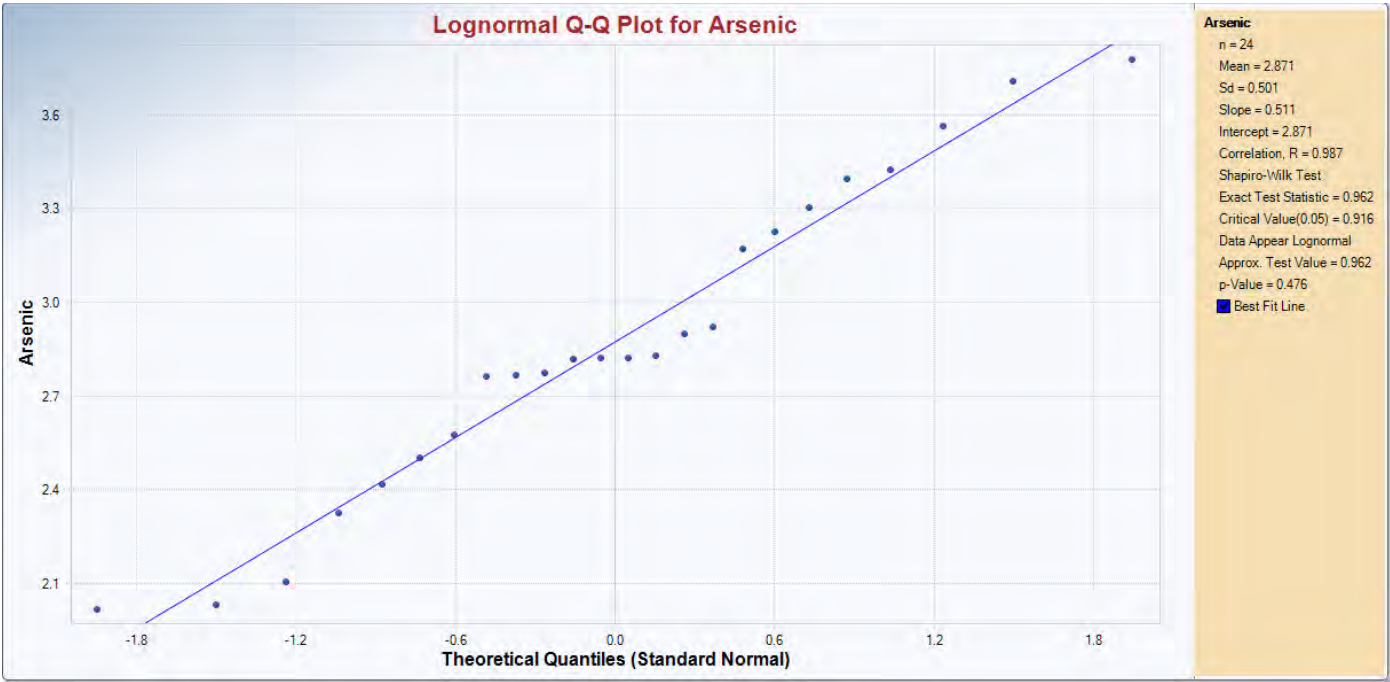
[illegible]

| | | | | | | | | | | | | | |
|--|--|--|---|------|------|-------|-------|-------|-------|-------|-------|-------|--|
| | | General Statistics on Uncensored Full Data | | | | | | | | | | | |
| Date/ Time of Computation | | ProUCL 5.103/ 12/ 2018 11:57:29 | | | | | | | | | | | |
| User Selected Options | | | | | | | | | | | | | |
| From File | | WorkSheet.xls | | | | | | | | | | | |
| Full Precision | | OFF | | | | | | | | | | | |
| From File: WorkSheet.xls | | | | | | | | | | | | | |
| General Statistics for Uncensored Dataset | | | | | | | | | | | | | |
| Variable NumObs # Missing Minimum Maximum Mean Geo-Mean SD SEM MAD/ 0.675 Skewness CV | | | | | | | | | | | | | |
| Lead | | 24 | 0 | 38 | 202 | 101.5 | 93.79 | 40.53 | 8.273 | 34.84 | 0.701 | 0.399 | |
| Percentiles for Uncensored Dataset | | | | | | | | | | | | | |
| Variable NumObs # Missing 10%ile 20%ile 25%ile(Q1)50%ile(Q2)75%ile(Q3) 80%ile 90%ile 95%ile 99%ile | | | | | | | | | | | | | |
| Lead | | 24 | 0 | 53.5 | 67.6 | 76.75 | 94.5 | 119.5 | 133 | 157.9 | 166.4 | 194 | |
| | | | | | | | | | | | | | |

| User Selected Options | | Outlier Tests for Selected Uncensored Variables | | | | | |
|--|---------------------------------|---|--|--|--|--|--|
| Date/ Time of Computation | ProUCL 5.103/ 12/ 2018 11:01:11 | | | | | | |
| | From File | WorkSheet.xls | | | | | |
| | Full Precision | OFF | | | | | |
| | | | | | | | |
| | | | | | | | |
| Dixon's Outlier Test for Arsenic | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Number of Observations = 24 | | | | | | | |
| 10% critical value: 0.367 | | | | | | | |
| 5% critical value: 0.413 | | | | | | | |
| 1% critical value: 0.497 | | | | | | | |
| | | | | | | | |
| 1. Observation Value 43.6 is a Potential Outlier (Upper Tail) | | | | | | | |
| | | | | | | | |
| Test Statistic: 0.237 | | | | | | | |
| | | | | | | | |
| For 10% significance level, 43.6 is not an outlier. | | | | | | | |
| For 5% significance level, 43.6 is not an outlier. | | | | | | | |
| For 1% significance level, 43.6 is not an outlier. | | | | | | | |
| | | | | | | | |
| 2. Observation Value 7.5 is a Potential Outlier (Lower Tail) | | | | | | | |
| | | | | | | | |
| Test Statistic: 0.025 | | | | | | | |
| | | | | | | | |
| For 10% significance level, 7.5 is not an outlier. | | | | | | | |
| For 5% significance level, 7.5 is not an outlier. | | | | | | | |
| For 1% significance level, 7.5 is not an outlier. | | | | | | | |
| | | | | | | | |

| | | | | | | | |
|---|---------------------------------|---|--|--|--|--|--|
| | | Outlier Tests for Selected Uncensored Variables | | | | | |
| User Selected Options | | | | | | | |
| Date/ Time of Computation | ProUCL 5.103/ 12/ 2018 11:59:17 | | | | | | |
| | From File | WorkSheet.xls | | | | | |
| | Full Precision | OFF | | | | | |
| | | | | | | | |
| | | | | | | | |
| Dixon's Outlier Test for Lead | | | | | | | |
| | | | | | | | |
| Number of Observations = 24 | | | | | | | |
| 10% critical value: 0.367 | | | | | | | |
| 5% critical value: 0.413 | | | | | | | |
| 1% critical value: 0.497 | | | | | | | |
| | | | | | | | |
| 1. Observation Value 202 is a Potential Outlier (Upper Tail) | | | | | | | |
| | | | | | | | |
| Test Statistic: 0.255 | | | | | | | |
| | | | | | | | |
| For 10% significance level, 202 is not an outlier. | | | | | | | |
| For 5% significance level, 202 is not an outlier. | | | | | | | |
| For 1% significance level, 202 is not an outlier. | | | | | | | |
| | | | | | | | |
| 2. Observation Value 38 is a Potential Outlier (Lower Tail) | | | | | | | |
| | | | | | | | |
| Test Statistic: 0.088 | | | | | | | |
| | | | | | | | |
| For 10% significance level, 38 is not an outlier. | | | | | | | |
| For 5% significance level, 38 is not an outlier. | | | | | | | |
| For 1% significance level, 38 is not an outlier. | | | | | | | |
| | | | | | | | |







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