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WINVIC CONSTRUCTION LIMITED

MAYLANDS GATEWAY, HEMEL HEMPSTEAD

REMEDIATION VERIFICATION REPORT

1. PROJECT BACKGROUND

A site identified as 'Maylands Gateway', Hemel Hempstead is currently being developed for commercial purposes. The proposed development comprises six warehouses (Unit 1, Units 2 to 3, Unit 4, Unit 5, Unit 6 and Units 7 to 10) together with associated access roads, service yards, car parking areas, an attenuation pond and areas of managed landscaping. The location of the site is shown on Figure 1. A proposed development layout is presented on Figure 2. To enable construction, extensive earthworks were required. A pre-earthworks topographical survey is presented as Figure 3 and an earthworks cut and fill plan is presented as Figure 4.

RPS Group PLC (RPS) has produced a Phase I Environmental Liability Review (February 2016) and a Phase II Geoenvironmental Site Investigation and Risk Assessment Report (April 2016). Crossfield Consulting Limited undertook additional ground investigation works in March 2017 and the findings of this investigation, together with a summary of the works undertaken by RPS are presented in the Crossfield Consulting Limited, Supplementary Ground Investigation Report (CCL02935.CD47) that was produced in April 2017. The Supplementary Ground Investigation Report, also contained a risk-based assessment of potential contamination. To aid assessment, the site was divided into three zones (Zones A, B and C) and the different Zones are shown on Figure 3.

Following issue of the Supplementary Ground Investigation Report, a Remediation Statement was issued by Crossfield Consulting in September 2017. The Remediation Statement contained an outline summary of the potential remediation works at the site. Included in the recommendations was a supplementary phase of ground investigation. Crossfield Consulting Limited issued a Phase II Supplementary Ground Investigation Report (CCL02935.CF12) relating to these works in December 2017 prior to commencement of the earthwork operations.

The ground conditions encountered beneath the site during the investigation works typically comprised topsoil overlying Clay-with-Flints and Upper Chalk strata. Across the western half of the site, extensive Made Ground, comprising reworked natural strata, was present to depths of between 0.6 m and 3.0 m. Across the southern and western area of Zone A and the northwestern area of Zone B, thin horizons of ashy Made Ground were encountered to depths of between 0.2 m and 0.5 m. An area of Made Ground with localised hydrocarbon impaction and fragments of tar and asbestos containing materials (ACMs) was encountered across the central area of Zone B to depths of up to 4.5 m.

Following the Phase II ground investigation works, it was considered that the Remediation Statement was still valid. The Remediation Statement and Phase II Supplementary Ground Investigation recommended the following remedial works.



- A Discovery Strategy to be put in place during site development works, such that any unidentified contamination encountered was reported to a geoenvironmental specialist and further investigation undertaken.
- If visible asbestos-containing materials (ACMs) were identified, such materials were to be hand-picked for disposal off site.
- A capping layer to be placed in proposed landscaped areas, if impacted materials remain at the surface following the proposed earthworks.
- Barrier pipes to be installed in areas of hydrocarbon-impacted soils, if such materials were not removed during the earthworks.
- Post-earthworks, ground gas monitoring was recommended to confirm post-earthworks ground gas conditions.
- For geotechnical reasons, it was recommended that the Made Ground below all buildings and the central area of Zone B be dug out and replaced with Engineered Fill. During the Zone B works it was necessary to segregate the impacted Made Ground from materials that could potentially be reused during earthworks. Tar fragments or oil drums were required to be removed for off-site disposal.

This Remediation Verification Report relates to the remedial works undertaken with the Unit 1, Units 2 to 3, Unit 5, Unit 6 and Units 7 to 10 Plots of the development and has been prepared to discharge Planning Condition 18. The Unit 4 works are currently ongoing and are expected to be completed by December 2018. Any remedial works required within the Unit 4 Plot will be reported under separate cover upon completion of the works. It is considered that this Remediation Verification Report complies with published requirements of the Environment Agency.

2. ENABLING WORKS PHASE REMEDIATION WORKS

Prior to building construction, extensive earthworks were required to form the development levels. This involved the excavation and placement of materials in accordance with the Crossfield Consulting Limited, Earthworks Specification. During the works all materials exposed at the surface in areas of proposed fill were inspected prior to filling and all materials exposed in areas of excavation were inspected prior to any construction works. The Earthworks Specification required that all Made Ground materials be excavated from beneath the proposed building footprints and replaced with Engineered Fill. In addition, there was a requirement to dig out and replace an area of Made Ground from Zone B where hydrocarbon impacted soil, oil drums and ACM had been identified. Unsuitable materials were not permitted for use as fill beneath the building platforms.

Based on the assessments contained within the Supplementary Ground Investigation Report, it was considered that no soil or groundwater remediation should be required. Based on the assessments undertaken, the following works have been undertaken during the enabling works phase.

2.1 Asbestos Containing Materials

The earthworks operations for Unit 1, Units 2 to 3, Unit 5, Unit 6 & Units 7 to 10 were undertaken between November 2017 and June 2018. The earthworks for Unit 4 are currently on-going.

During the ground investigation works, traces of asbestos were identified within the ashy Made Ground beneath Zone A. Where these materials were present in proposed external areas these materials were left in-situ and subsequently covered by Engineered Fill. Where these materials were present within the Unit 6



building footprint, these materials were excavated and replaced as Engineered Fill beneath the Unit 6 car park area (to the north of Unit 6) beneath approximately 1.3 m of Engineered Fill.

During the excavation works any visible ACMs were hand-picked and bagged for off-site disposal. Such materials were encountered within the northwestern part of Zone B and these materials were removed in February 2018. Additional ACMs were encountered within the central area of Zone B and removed from site in April 2018 and June 2018.

The visible asbestos identified in the Made Ground in Zone B was handpicked prior to, and during, the excavation works and all hand-picked ACMs removed during the remediation works were bagged before being disposed of off-site as "hazardous" waste. Materials, visually identified as chrysotile and amosite, were removed from site by appropriate permit holders, and were taken to permitted facilities operated by, Carl Wright (Haulage & Plant) Limited and Mick George Limited.

The waste consignment notes associated with the removal off-site of the ACMs are presented in Appendix I.

The approximate locations of the identified visible asbestos are presented on Figure 3.

2.2 Hydrocarbon Impacted Soils

The area of identified hydrocarbon impaction within the central area of Zone B was excavated between April and May 2018 under the supervision of an experienced geoenvironmental engineer from Crossfield Consulting Limited.

During excavation, the impacted Made Ground materials were segregated from materials that could potentially be reused during the earthworks. Visibly hydrocarbon impacted soils were placed on plastic sheeting together with any identified tar fragments and/or oil drums for off-site removal. The materials that were segregated for potential reuse were placed in two stockpiles and sampled and tested to verify that the materials were suitable for retention and re-use during the earthworks. The test results from the two stockpiles of materials confirmed that the materials were suitable for use and copies of the test results are presented in Appendix I. These materials were placed within the lower layers of a borrow pit excavation, at approximately 3.0 m depth, in the northern car park area of the Unit 4 Plot.

The waste consignment notes associated with the removal off-site of the hydrocarbon impacted materials are presented in Appendix I.

As detailed on the Waste Consignment Notes presented in Appendix I, the impacted materials were taken to a specialist soil treatment facility. Two loads, each of 20,000 kg, were transferred by B.P. Mitchell to Keltbray Environmental Limited and four loads, each of approximately 18,000 kg, were transferred by Collins Earthworks Limited to Augean PLC.

A plan showing the approximate location of the hydrocarbon impacted Made Ground materials is presented on Figure 3.

2.3 Unforeseen Ground Conditions

It is confirmed that, in accordance with the Discovery Strategy presented in the Remediation Statement, no unforeseen ground conditions were encountered during the construction works such that Crossfield Consulting Limited was not requested to attend site to assess potentially contaminated materials that had not previously been identified during the ground investigation works at the site.



3. POST ENABLING WORKS/CONSTRUCTION PHASE REMEDIATION WORKS

With respect to end users, the proposed development includes large areas of hardstanding, which will provide an effective barrier between the end users and the existing ground such that there would be no realistic exposure pathways in these areas following development.

Based on the assessments contained within the Supplementary Ground Investigation Report, it is considered that following the removal of visible ACMs and the identified hydrocarbon impacted materials in Zone B, no soil or groundwater removal or treatment should be required. However, based on the assessments undertaken the following works were recommended during the construction phase.

3.1 Landscaped Areas

Following completion of the earthworks operations, it is understood that no ashy or hydrocarbon impacted Made Ground materials were present at the surface in areas of proposed soft landscaping. On this basis, no capping layer was required.

Notwithstanding the above, a landscaping proposal drawing, detailing the thicknesses of topsoil to be placed within soft landscaping areas is included in Appendix II. As detailed, the majority of the landscaped areas include a topsoil thickness of between 300 mm and 450 mm.

3.2 Water Supply Pipes

The Client has confirmed that potable water supply pipes at the site have been installed in accordance with the requirements of Affinity Water. This has included the use of multi-layer barrier pipe (namely Protecta-Line). Photographs of the installed pipe are presented in Appendix II.

On the basis of the information provided, it is considered that the potable water supply that has been installed at the site complies with the recommendations within the Remediation Strategy.

3.3 Ground Gas Protection Measures

Based on the information available prior to the commencement of the earthworks operations, and with reference to the guidance published in BS 8485:2015, the site could have been classified as a Characteristic Gas Situation 2 (CS 2) site. Following completion of the earthworks operations, all Made Ground materials have been removed from below the building footprints and have been replaced with Engineered Fill. No organic or putrescible materials were permitted within the Engineered Fill materials. In addition, hydrocarbon impacted materials have been removed from the site.

Following completion of the earthworks operations, ground gas monitoring has been undertaken at Unit 1, Units 2 to 3, Unit 5, Unit 6 and Units 7 to 10. Ground gas monitoring will be undertaken at Unit 4 following completion of the Unit 4 earthworks operations. A Ground Gas Assessment for each Unit has been reported under separate cover as Referenced.

Based on the available data, the monitored Units can be classed as a Characteristic Gas Situation CS 1 sites and on this basis no ground gas precautions are required for these Units.

It should be noted that the developers base specification for all of the Units required the installation of a fully lapped and taped 1200 g damp proof membrane.



BRE Document BR 211 – Radon: *Guidance on Protective Measures for New Buildings* (2015) indicates that the site is not within an area where radon precautions are required in new buildings.

4. SUMMARY

A site identified as 'Maylands Gateway', Hemel Hempstead is currently being developed for commercial purposes. The proposed development comprises six warehouse units together with associated access roads, service yards, car parking areas, an attenuation pond and areas of managed landscaping.

Following completion of Phase II supplementary ground investigation, the remedial works recommended within the Remediation Strategy were still considered valid.

During the earthworks operations, any visible ACMs were hand picked and doubled bagged by an appropriate permit holder and disposed of off-site as hazardous waste, as detailed within the Waste Consignment Notes, presented in Appendix I.

During the ground investigation works, traces of asbestos were identified within the ashy Made Gorund beneath Zone A. Where these materials were present in proposed external areas these materials were left in-situ and subsequently covered by Engineered Fill. Where these materials were present within the Unit 6 building footprint, these materials were excavated and replaced as Engineered Fill beneath the Unit 6 car park area.

The area of identified hydrocarbon impaction within the central area of Zone B was excavated under the supervision of an experienced geoenvironmental engineer from Crossfield Consulting Limited. During the excavation, the impacted Made Ground materials were segregated from materials that could potentially be reused during the earthworks. Visibly hydrocarbon impacted soils were placed on plastic sheeting together with any identified tar fragments and/or oil drums for off-site removal. The materials that were segregated for potential reuse were placed in two stockpiles and sampled and tested to verify that the materials were suitable for retention and re-use during the earthworks. The test results from the two stockpiles of materials confirmed that the materials were suitable for use and copies of the test results are presented in Appendix I. The waste consignment notes associated with the removal off-site of the hydrocarbon impacted materials are presented in Appendix I.

No unforeseen ground conditions were encountered during the construction works such that Crossfield Consulting Limited was not requested to attend site to assess potentially contaminated materials that had not previously been identified by ground investigation works at the site.

Following completion of the earthworks operations, it is understood that no ashy or hydrocarbon impacted Made Ground materials remained present at the surface in areas of proposed soft landscaping. Notwithstanding the above, based on the landscaping proposals, a topsoil thickness of up to 450 mm has been placed across the majority of the landscaping areas.

Multi-layer barrier potable water supply pipe has been installed at the site in accordance with the requirements of the water supply company.

Following completion of the earthworks operations, gas monitoring has been undertaken for each completed plot and a Ground Gas Assessment has been reported for each Unit under separate cover as Referenced. Based on the available data, no ground gas precautions are required for Unit 1, Units 2 to 3, Unit 5, Unit 6 and Units 7 to 10. Unit 4 will be assessed upon completion of the earthworks.



With reference to the available information, it is noted that identified potential pollutant linkages identified within the Phase II Supplementary Ground Investigation Report have now been effectively eliminated by the removal of ACMs and hydrocarbon impacted materials, the installation of multi-layer barrier potable water supply pipes and provision of topsoil within landscaping areas.

FIGURES

FIGURE 1 Site Location Plan

FIGURE 2 **Proposed Development Plan**

FIGURE 3 Pre – Earthworks Topographical Site Survey

FIGURE 4 Cut & Fill Contours Plan

APPENDICES

APPENDIX I Records of Enabling Works Phase Remediation Works

APPENDIX II Records of Post Enabling Works/Construction Phase Remediation Works

REFERENCES

Site Specific References

RPS Group PLC (February 2016) Maylands Gateway, Hemel Hempstead, Phase 1: Environmental Liability Review Report Ref: RCEL38874-00 R

RPS Group PLC (April 2016) Maylands Gateway, Hemel Hempstead, Phase 2: Geoenvironmental Site Investigation and Risk Assessment Report Ref: RCEI39093-003 R

Crossfield Consulting Limited (April 2017) Maylands Gateway, Hemel Hempstead, Hertfordshire -Supplementary Ground Investigation Report. Report No. CCL02935.CD47

Crossfield Consulting Limited (April 2017) Maylands Gateway, Hemel Hempstead, Hertfordshire - Earthworks Specification. Report No. CCL02935.CD48

Crossfield Consulting Limited (September 2017) Maylands Gateway, Hemel Hempstead, Hertfordshire -Remediation Statement. Report No. CCL02935.CF01

Crossfield Consulting Limited (December 2017) Maylands Gateway, Hemel Hempstead, Hertfordshire – Phase II Supplementary Ground Investigation Report. Report No. CCL02935.CF12

Crossfield Consulting Limited (June 2018) Unit 2/3 - Maylands Gateway, Hemel Hempstead, Ground Gas Assessment. Report No. CCL02935.CH06

Crossfield Consulting Limited (June 2018) Unit 5 - Maylands Gateway, Hemel Hempstead, Ground Gas Assessment. Report No. CCL02935.CH06



Crossfield Consulting Limited (June 2018) *Unit 6 – Maylands Gateway, Hemel Hempstead, Ground Gas Assessment.* Report No. CCL02935.CH06

Crossfield Consulting Limited (June 2018) *Unit 7-10 – Maylands Gateway, Hemel Hempstead, Ground Gas Assessment.* Report No. CCL02935.CH06

Crossfield Consulting Limited (August 2018) *Unit 1 – Maylands Gateway, Hemel Hempstead, Ground Gas Assessment.* Report No. CCL02935.CH06

Technical References

BRE (2015) BR211 - Radon: Guidance on protective measures for new buildings BRE Press

BSI (2015) BS 8485:2015 Code of Practice for the Design of Protective Measures for Methane and Carbon Dioxide Ground Gases for New Buildings British Standards Institution

Environment Agency (2018) Waste Classification: Guidance on the Classification and Assessment of Waste (1^{st} Edition v1.1) – Technical Guidance WM3 EA

Environment Agency (2004) Model Procedures for the Management of Land Contamination CLR11 EA

Environment Agency (2005) *Environment Agency Guidance on Requirements for Land Contamination Reports* EA



GENERAL NOTES

- 1. This report is provided in the context of the stated development proposals and should not be used in a different context.
- 2. The accuracy of map extracts cannot be guaranteed and it should be recognised that different conditions on site may have existed between and subsequent to the various map surveys.
- 3. Any borehole data from the British Geological Survey sources are included on the following basis: "The British Geological Survey accept no responsibility for omissions or misinterpretation of the data from their Data Bank as this may be old or obtained from non-BGS sources and may not represent current interpretation.
- 4. Where any data supplied by the Client or by other external sources, including previous site investigation data, have been used it has been assumed that the information is correct unless otherwise stated. No responsibility can be accepted by Crossfield Consulting Limited for inaccuracies within the data supplied by others.
- 5. Exploratory hole locations provided in the report are generally established by tape measurement from existing features or boundaries. Hole locations are not accurately surveyed and ground levels at these locations are not obtained unless specifically requested.
- 6. Any assessments made in this report are based on the ground conditions indicated by the trial pits and/or boreholes, together with the results of any field or laboratory testing undertaken and, where appropriate, other relevant site data which may have been obtained for the site. Variations in ground conditions may occur between exploratory hole locations and there may be special conditions appertaining to the site which have not been revealed by the investigation and which have not been taken into account in the report. The assessment may be subject to amendment in the light of additional information becoming available.
- 7. The report is provided for the sole use by the Client or its assignees and is confidential to the Client's professional advisers. No responsibility whatsoever for the contents of this report will be accepted to any person other than the Client or its assignees.
- 8. New information, improved practices and legislation may necessitate an alteration to the report in whole, or in part, after its submission. Therefore with any change in circumstances or after the expiry of one year from the date of the report, the report should be referred to Crossfield Consulting Limited for re-assessment and, if necessary, re-appraisal.



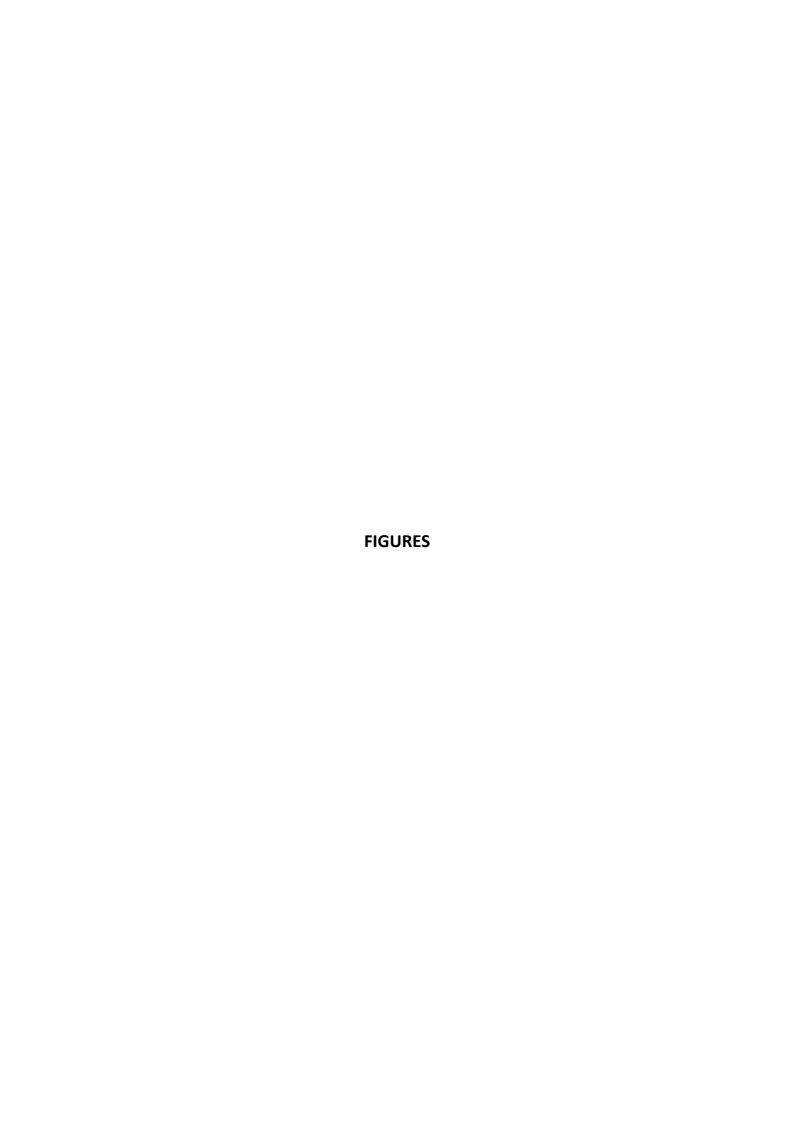
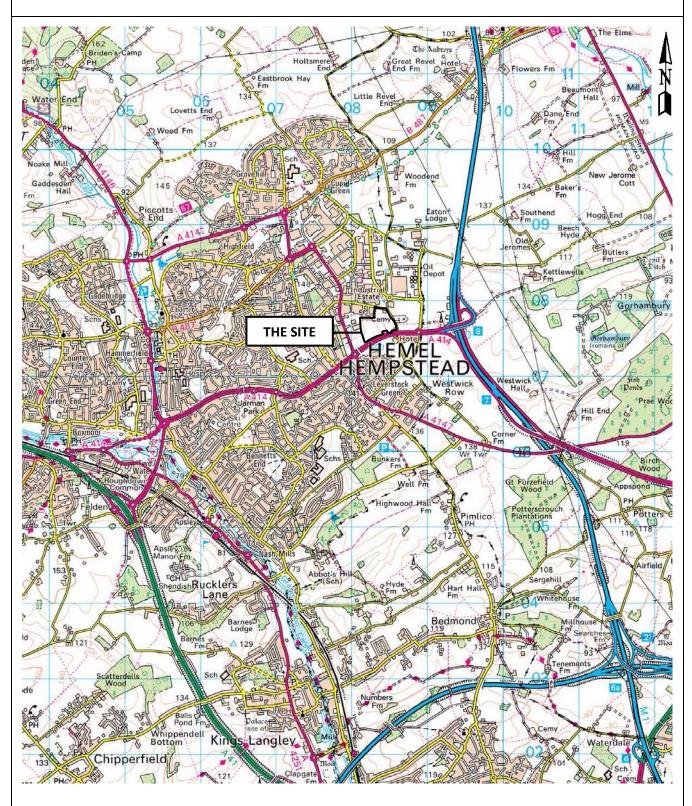


FIGURE 1

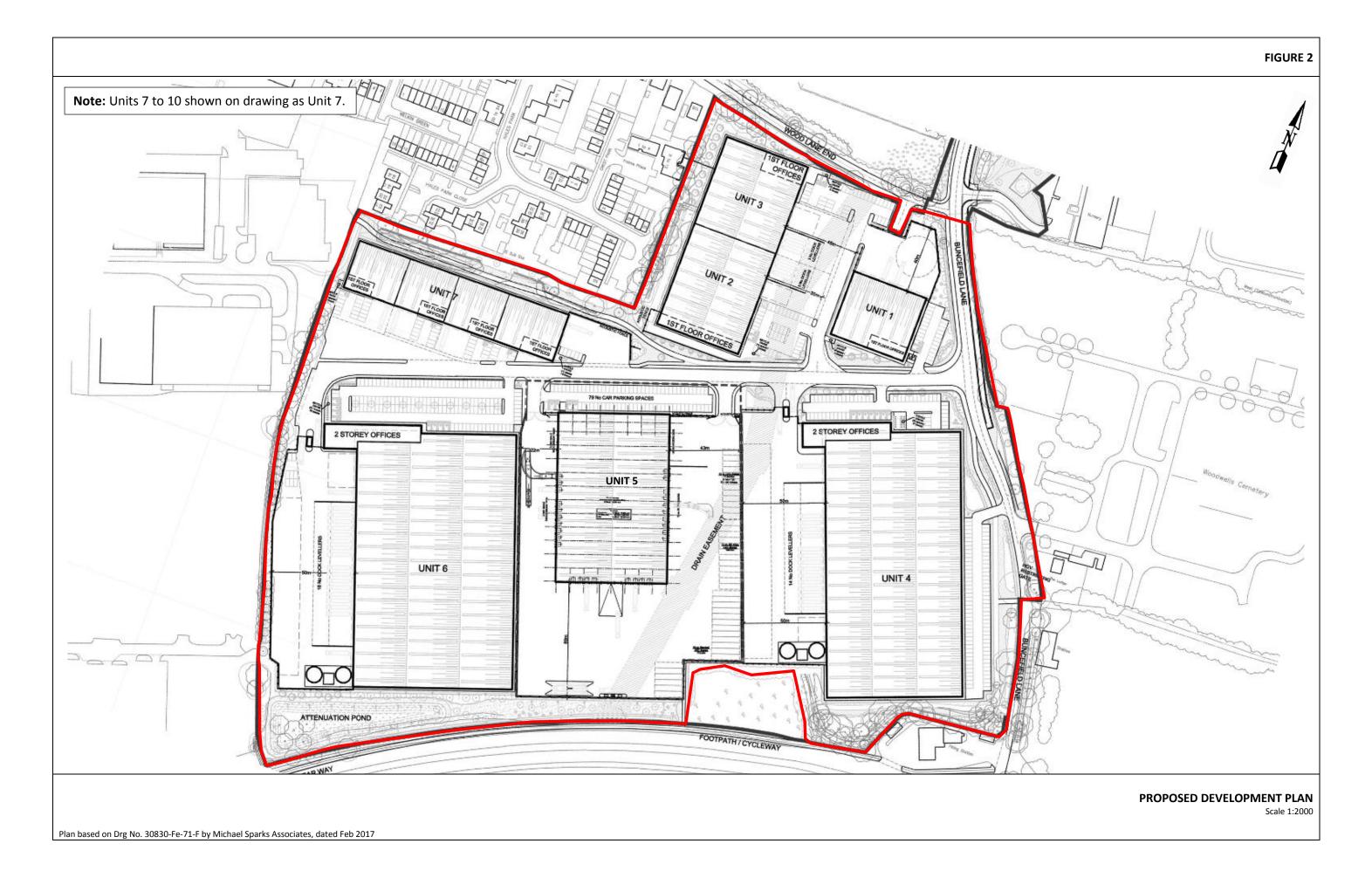


SITE LOCATION PLAN

Scale 1: 50,000

Reproduced from the 2013, 1:50,000 Ordnance Survey map with the permission of Ordnance Survey on behalf of The Controller of Her Majesty's Stationery Office, © Crown copyright. Licence No.100014660









Plan based on the Topographical Survey drawing by Greenhatch Group, dated January 2016. Drawing No. 22846_T. Rev. 1



CUT & FILL CONTOURS PLAN

Scale 1:2500

Reproduced from the Collins Earthworks, Cut/Fill drawing, dated August 2018. Drawing No. CCN0116.1a





APPENDIX I – RECORDS OF ENABLING WORKS PHASE REMEDIATION WORKS

Introduction

During the earthworks operations any visible ACMs encountered in areas of excavation were hand-picked and bagged for off-site disposal.

The hydrocarbon impacted soils identified within Zone B were excavated between April and May 2018 under the supervision of an experienced geoenvironmental engineer from Crossfield Consulting Limited. During the excavation works, materials that were not visibly impacted were segregated into separate stockpiles, sampled and tested to confirm their suitability for retention and re-use on site.

All samples for analytical testing were collected in appropriate containers, stored in cool boxes (where appropriate) and sent to the testing laboratory overnight. The sample containers, storage and handling procedures were all compatible with the relevant recommendations of the UKAS accredited testing laboratory for the specific testing proposed, as outlined below.

Analytical Laboratory Testing

Samples of the segregated stockpiled materials for potential retention and reuse were submitted for analysis of the following determinands:

- Arsenic (Total)
- Chromium (Total)
- Lead (Total)
- Nickel (Total)
- Selenium (Total)
- Cyanide (Total)
- Sulphate (Water soluble)
- pH
- Asbestos (Fibres & ACM)

- Cadmium (Total)
- Copper (Total)
- Mercury (Total)
- Zinc (Total)
- Boron (Water soluble)
- Sulphide (Total)
- Phenols (Total-monohydric)
- Total Organic Carbon
- Asbestos (Quantification)
- Total Petroleum Hydrocarbons aromatic/aliphatic split and carbon number banding, using GC-FID techniques
- Volatile Organic Compounds using GC-MS techniques
- Polyaromatic Hydrocarbons using GC-MS techniques

The analyses were carried out by i2 Analytical Limited, a UKAS accredited laboratory, and the results are presented in this Appendix. Soil testing was undertaken in accordance with the Environment Agency's Monitoring Certification Scheme (MCERTS), where applicable, and the results are included in this Appendix.

Waste Removal

All hand-picked ACMs obtained during the remediation works were bagged before being disposed of off-site as "hazardous" waste. As detailed in the Waste Consignment Notes presented in this Appendix, these materials, visually identified as chrysotile and amosite, were doubled bagged and removed from site by appropriate permit holders, and were taken to permitted facilities, Carl Wright (Haulage & Plant) Limited and Mick George Limited.

As detailed on the Waste Consignment Notes presented in this Appendix, the hydrocarbon impacted materials were taken to a specialist soil treatment facility. Two loads, each of 20,000 kg, were transferred by B.P. Mitchell to Keltbray Environmental Limited. Four loads, each of approximately 18,000 kg, were transferred by Collins Earthworks Limited to Augean PLC.

Copies of the available waste Consignment Notes (as provided by the Client) are presented in this Appendix.



The Hazardous Waste Regulations 2005: Consignment Note



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Carl Wright (Haulage & Plant) Ltd
Plot 14, Baker Brook Ind Est, Wigwam Lane
Hucknall, Nottingham NG15 7SZ
Tel: 01159 640224 Fax: 01159 640505

Customer O/N	Date 12/02/2018	Ticket No 39693	Vehic	le Reg	Haulier WC	CL Dire	ction	Account
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The Hazardous Waste Regulations 2005: Consignment Note



1 Consignment note code: 2 The waste described below to to be removed from (name, address, postcode, telephone, e-mail, facilitie): 2 The waste described below to to be removed from (name, address, postcode, telephone, e-mail, facilitie): 3 The process giving disc to the waste(a) wast. 3 WASTE DETAILS (where mere than one waste type is collected all of the information given below must be completed for each EWC (dentitied) Description of waste (EWC code) (6 digits) (EWC code) (7 more than one waste) (EWC code) (8 digits) (EWC code) (8 digits) (EWC code) (8 digits) (EWC code) (8 digits) (EWC code) (9 digits)	2 The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile):											
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On behalf of (name, address, postcode, telephone, e-mail, facsimile): 2 Carrier registration no./reason for exemption: CB/KM 3484 KR 3 Vehicle registration no. (or mode of transport, if not road): VP63 P2C Signature Date 2042018: Time Date 12042018: Time 1 I received this waste at the address given in A3 on: Date 12042018: Time 0835 2 Vehicle registration no. (or mode of transport if not road): 3 Where waste is rejected please provide details: VP63 P2C Carl Wright (Haulage & Plant) Ltd Georgia House	On hehalf of (name, address, postered talanhars, a mail (m.), it is											
2 Carrier registration no. /reason for exemption: CB / KM 3484 KR 3484 K	On behalf of (name, address, postcode, telephone, e-mail											
3 Vehicle registration no. (or mode of transport, if not road): \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	I. facsimile):											
Signature Date 2042018: Time Date 2042018: T												
Date 2042018 Time Date 2042018	Venicle registration no. (or mode of transport, if not road): YV63 P2C											
PART E Consignee's certificate Individual EWC code (kg) Quantity of each EWC code received (kg) EWC code accepted/rejected Waste management operation (R or D code) 1 I received this waste at the address given in A3 on: Date 12 04 20 18 Time 08 3 9 Vehicle registration no. (or mode of transport if not road): Name: On behalf of (name, address, postcode, telephone, e-mall, facsimile): Carl Wright (Haulage & Plant) Ltd Georgia House	Signature											
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On behalf of (name, address, postcode, telephone, e-mail, facsimile): Carl Wright (Haulage & Plant) Ltd Georgia House	A VALUE - 1 - A											
Carl Wright (Haulage & Plant) Ltd Georgia House	3 Where waste is rejected please provide details: VPA Provide details: V											
Certify that waste permit/exempt waste operation numbers	Carl Wright (Haulage & Plant) (A											
Wigwam Lane Hunknett	Certify that waste permit/exempt waste operation number.											
L S / 10 C	Wigwam Lane, Hucknall											
authorises the management of the waste described in B at the address	authorises the management of the waste described in B at the address given in A3. Nottingham, NG 15 7SZ											



Waste transfer note 4

icket Number : ate : 16/05/20	1282101 18 Time : 08:0	0'	MGL Carrier No : CBDU87105 Order No : J1298/3010 Cust Carrier No : Job Type : Delivery Payment : ACCOUNT							
ustomer : SURE	ENVIRONMENTAL	LIMITEO	Skip : 40 YARD RORO ENCLOSED x 1							
ite : WINVIC S BUNCEFIE			Waste :FIBROUS ASBESTOS EWC Code :17 06 01 Vehicle Reg : KX17PWU SIE Code: 43.12							
HEMEL HA	MPSTEAD		310 0000, 43.1							
HP2 4UA el No : 012143	94290									
obile : river's Name:	T.KOLDZIEJCZYK									
% Bagged Waste % Card / Pap Contamina Packaging % Electrical WEEE % Food Green Was	er %	Metals Plastic Plasterboard Polythene Soils Tarmac Wood	Boston TS Nursery Road PE21 7TN EPR/DB3708GV Cambridge TS Cowley Road CB4 OWZ EPR/AP3495EC Ellington TS Thrapston Road Ellington PE28 0AE EPR/EP3038VB Milton Keynes TS Tangwell Street	Mountsorrel TS Granite Way LE12 7TZ EPR/GP3290LF Northampton TS Great Billing II NN3 5HQ EPR/SP3935AX Peterborough TS Dogsthorpe PE1 3TD EPR/EP3493SS Rushton LFS Oakley Road NN14 1RS EPR/CP393536XG St. Ives TS Meadow Lane PE27 4YQ EPR/PP3399NA Other						
nardcore /	Brick ",	vvoou	Tongwell Street MK15 9PA EPR/CB3300HV							
	waste hierarchy as requ		er/holder of the waste confi on 12 of the Waste (England	rms that they have fulfilled their and Wales) Regulations 2011. RGE LTD DETAILS:						
norised Signatures ONLY nature:	6		Signature:	Amur						
me: te in BLOCK CAPITALS)	A. Lwes		Name: (write in BLOCK CAPITALS)	TowodriESCRYK						
te of transfer:	160/51/18	4	Date of transfer:	16/5/18						
rs: → Office w → Transfer Station/Landfill → Customer	Queries relating to this to in writing to our office with the E&OE		sales@mickgeorge.co.uk www.mickgeorge.co.uk T 01480 498 099 F 01480 498 077	6 Lancaster Way Ermine Business Park Huntingdon Cambs PE29 6XU VAT GB 550 6329 53						



Depots in St Ives, Ellington, Peterborough, Cambridge, Northampton, Rushto

Neighbridge ticket

Ticket Number : 585711

WTN Number: 1287529

sales@mickgeorge.co.uk www.mickgeorge.co.uk

Date In: 23/05/2018 Time In: 11:22

Date Out: 23/05/2013Time Out: 11:22

6 Lancaster Way Ermine Business Park

Huntingdon Cambs PE29 6XU

T 01480 498 099 F 01480 498 077

Customer: SURE ENVIRONMENTAL LIMITED

UNIT 13

STIRCHLEY TRADING ESTATE

HAZELWELL ROAD BIRMINGHAM

830 2PF

Drivers Name : T. DABROWSKI

Vehicle Reg : KR16VA0

Site Address : WINVIC SITE BUNCEFIELD LANE

HEMEL HAMPSTEAD

HP2 4UA

SIC Code : 43.12 Waste Type : FA

Waste Description : FIBROUS ASBESTOS

EWC Code : 17 06 01

Origin Code :

Destination Code : MEPAL

Disposal Address : MICK GEORGE LTD

WITCHAM MEADLANDS LANDFILL 16.740

BLOCK FEN DROVE

MEPAL CB6 2AY

LICENCE NUMBER CHATTERIS

Disposal Site

Haulier

Signed

Printed

Printed

Date

Mick George Limited te

Witcham Meadlands Landfill Site

Block Fen Drove,

Mepal,

Cambridgeshire,

CB6 2AY

Permit Number EPR/LP3996MD

Skip Hire • Aggregate Sales • Earthworks • Contaminated Land Services • Demolition • Concrete Supply

TERMS & CONDITIONS

Subject to Mick George Limited standard terms and conditions on reverse of pink customer copy. VAT GB 550 6329 53 Mick George Ltd Registered no. 2417831 [Englan-



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The hazardous waste regulations 2005: Consignment note

sales@mickgeorge.co.uk www.mickgeorge.co.uk www.mickgeorgeskips.co.uk T 01480 498 099 F 01480 498 077 Mick George Limited 6 Lancaster Way Ermine Business Park Huntingdon Cambridgeshire PE29 6XU

PART A - NOTIFICA	TION DETAILS	1 - X							公司
Consignment note code:	 W I N V	101	000	02	4. The waste will be taken	n to (n	ame, address and	postcode):	
The waste described is to b postcode, telephone, email		ddress,			MICK GEORGE LE				
WINVIC SITE BUNCE	FIELD LANE HEME	EL HAMPST	EAD I	HP2	DECORT EN DICO	V L. IV	ILI AL ONAT	LINIO ODO I	
4UA					5. The waste producer wa	as (if c	different from 2) (na	me, address, p	ostcode, telephone,
					email, facsimile) AS A2				
3. Premises code (where appl	icable)	I N V I	С						
PART B - DESCRIP	TION OF THE WA	STE		Ser 7			If continuation	n sheet us	ed, tick here
1. The process giving rise to the	he waste(s) was: Demoli	tion			2. SIC for the process giv	7.7	se to the waste:	4 3	. 1 2 /
3. WASTE DETAILS (where n	nore than one waste type	s collected all o	of the info	rmation give	Ticket Number: 128752 en below must be completed		each EWC identified		1.1.1-1.1
scription of waste	List of wastes (EWC Code) (6 digits)	Quantity			ological components of eir concentrations are:		Physical form as, liquid, solid,	Hazard code(s)	Container type, number
	(EVVC Code) (6 digits)	(kg)	uie v	Componen	t / Concentration	,,,,	wder, sludge or	code(s)	and size
1	. 1 - 1 - 1 - 1 - 1 - 1				or mg/kg)	_	00110	LIDE LIDE	40 VARD BODO
FIBROUS ASBESTOS	1 7 0 6 0 1			Amos	ite 10-15%	_	SOLID	HP5, HP7	40 YARD RORO ENCLOSED
The information below is to	be completed for each E	WC identified				WAF	F:2451		Collection
EWC code	Packing group(s)	UN Identificati number(s)	ion	Pi	roper shipping name(s)		UN class(es)	Specia	I handling requirements
170601	11	2212		WISTE	ASBESIOS AMPHI	1804	9		E
									3
PART C - CARRIER	S CERTIFICATE			100	PART D - CONSI	GNO	OR'S CERTIF	ICATE	500 mm
PART C - CARRIER'S CERTIFICATE (If more than one carrier is used, please attach schedule for subsequent carriers. If a schedule of carriers is attached tick here. I certify that I today collected the consignment and that the details in A2, A4 and B3 are correct, and I have been advised of any specific handling requirements. 1. Carrier Name On behalf of Mick George Ltd 6 Lengaster Way, Ermine Business Park, Huntingdon,									
PI XU 01480 498099 2. carrier registration no. /re CB/DU87105 3. Vehicle registration no. (or	•	oad)			#1A2ELLELL Date 2 3 0 1	R	0AO 1830	720F	
Signature	ا الملحم د				3	2 2	40118		
Date 2305	012541	ime ()	00		By signing this Duty of Co confirms that they have for Regulation 12 of the was	ulfilled	their duty to apply	the waste hiera	archy as required by
							Marine Design		
PART E - CONSIGN	EE'S CERTIFICA	(where mo	re than	one waste		infor			
Individual EWC code(s) received	Quantity of each EWC	code received (F	(g)		EWC code accepted / rejected		Waste mana	agement operat	ion (R or D code)
17000	1660			AC	CEPTED	\dashv		00	5
1.I received the waste at the	1000 (MAT) / COS (10 444) (MAT) / COS (10 440) (MAT) / COS (10 440) (MAT)	Date Z	30	520	Time	11	20		
Vehicle Registration no. (d		road)	11	10	Name The	25	2	-	
3. Where waste is rejected p		KKE	OK Ge	orge Ltd.	Name On behalf of (name, add Wilcham Meadlands	ress, l	postcore telephon	e, email and fa	csimile) 23986ND
I Certify that waste manager	nent licence/permit/author	ised exemption	no(\$)F∈	n Drove	Mepal, Cambridges	nire	ANDO THE LEE	om LINE	
authorise the management of	of the waste described in E	B-at the	Da	ate 2	5057010	٦	Time j	40	
address given in A4. /				سالاسال					

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The Hazardous Waste Regulations 2005: Consignment Note

Environment Agency

PRODUCER'S/HOLDER'S/CONSIGNOR'S COPY (Delete as appropriate)

PAR	TAN	lotific	atio	on deta	ils														
1 Co	nsign	ment n	ote (code:	- 0	1	L	1	V	1	0000	0 1	3 The	waste v	will be taken	to (name, a	ddress a	nd postcod	e): LTD
CC	stcod	e, telep	hon	e, e-mai	il, fa	csimil اکنا	le):	24	-C	m (ı	name, addre	SS,	TS	AME	ER TOU	TRF, 18	1RAD =16	FIELD	RO RO
				or Ite										stcode, t	elephone, e	s (if different -mail, facsim		(name, add	iress,
				141				84 .						ı	AS	(i)			
A STATE OF THE PARTY OF	THE PERSON			n of th	THE REAL PROPERTY.	Name and Address of the Owner, where										English Frank State of State o			ed, tick here
1 Th	e proc	ess giv	ing I	rise to th	ie w	aste(s	s) w	vas:	C	C	USTRU	c 170N2 s	SIC (2007) for the	process givi	ng rise to the	e waste:	41.	2011
3 W/	ASTE D	ETAILS	(wh	iere mor	e th	an on	e v	vaste	typ	e is	collected al	ll of the inforn	nation giv	en belov	w must be co	ompleted for	each EV	/C identified	d)
Descr	iption	of was	te		1000	st of v WC co			ligit	:s)	Quantity (kg)	The chemic the waste a Component	nd their	Conce		Physical fo (gas, liquid powder, sli or mixed)	l, solid,	Hazard code(s)	Container type, number and size
(711	<u>_</u> ,			1	7	D	5	ර	3	20000	HARAGE	Kbont	7	0.1%	SOL	U	417	TIPPER
			15								**************************************								
1000000000	CONTROL CONTROL	ation g	iven	below is	s to	be co	mp				ch EWC iden				1				
EWC	code			UN ider		ation	1	Pro	per	shi	pping name	(s)	UN clas	ss(es)	Packing g	roup(s)		l handling ements	
1								40											· · · · · · · · · · · · · · · · · · ·
DAD		arrio	2°C (ertifica	ata			1							PART D	Consignor	's certi	ficate	
						lease	at	tach	srl	edi	ile for subse	quent carrie	s. If sche	dule of		at the inform			nas been
carrie	ers is a	ttache	d tic	k here.	(completed	and is corre	ct, that t	he carrier is	registered or e precautionary
corre	ct and	I have	bee	n advise	d of	any s	spe	cific	har	ndlir	ng requireme				measures.	All of the wa	ste is pa	ckaged and	
When	e this r	ote co	mpri	ses part	of a	multi	ple	colle	ectio	on th	ne round nun	nber and colle	ction nun	iber are:		equirements nat I have ful		duty to apr	oly the waste
1 Ca	rrier n	ame: /	CI	two	21/	, -	50	OF	4	21	,				hierarchy a	s required b nd Wales) Re	y Regula	tion 12 of th	
2 On	beha	lf of (na	ame,	addres	s, po	stco	de,	teler	oho	ne,	e-mail, facsi	mile):	lo.		1 Consign	or name: 🔏	SC	oll 1	Alleg
HAT	~16	ELD	-	HER	73	, 1	41	19	5	R	B.	mile): TFORD 1			facsimile):	Cou	NIE	EARTH	lephone, e-mail,
2 C	BD re	gistraț	72	no./reas	on f	or exe	emp	ption	:		*				UNIT	2B,	PAR	SHFIE	ane Eld
3 Ve	hicle r	egistra	tion	no. (or r	mod	e of k	can	sport	t, if	not	road):	066	WY	F.	NOTT	NS HAN	In	1917	9LE
Signa		x /	4	1,	(_	1	۰۹						Signature	x 8	ll	18	2
Dat		8/	0	6/20		7	Tin		1	3 2	HO				Date S	3/06/2	2018		11240
	ΓΕ C idual E		-	s cert								type is collect	ed all of t WC code			below must			CALL STREET, SQUARE, S
	(s) rece		_	, admiry							(1.6)		ccepted/					•	
\perp			-																
Ш									_					7					
				e at the		_					Date	D M W 1		Tim	ne	6 (74			
2 Ve	hicle r	egistra	tion	no. (or r	mod	e of ti	ran	spor	t if	not	road):				Name: On behalf	of (name, ad	dress, p	ostcode, tel	lephone, e-mail,
3 Wh	nere w	aste is	reje	cted ple	ase	provi	de	deta	ils:						facsimile):	(10111-7	, ,		, , , , , , , , ,
																			2.
I certi	fy that	waste	per	mit/exe	mpt	waste	e ol	perat	ion	nur	mber:								
autho	rises t	the ma	nage	ement of	f the	wast	e d	lescr	ibe	d in	B at the add	lress							
given	in A3.			d forms											Signature				
as ide	million.	in Pa	à C	the coll	ihai	the to	باز								Date	e sta		Tir	ne la la la

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The Hazardous Waste Regulations 2005: Consignment Note



PRODUCER'S/HOLDER'S/CONSIGNOR'S COPY (Delete as appropriate)

PART A Notification	on deta	ils												
1 Consignment note	code:	0	ili	1 N	1	0000	2	3 The	waste w	vill be taken	to (name, a	ddress a	and postcod	e): L LTD
2 The waste describe postcode, telephon					m (r	name, addre	ss,	TH	AME	SWITA	RF, B	RADI	-iELD	L LTD
COLLINS	CAF	ZT	HW	ork	2			7.	LLV	CKTO	いい。 s (if differen	E16	int	
MAYLAN	DS	4	JEN	UE N				pos	stcode, to	elephone, e	-mail, facsin	nile):	(nume) and	,
HEMEL				SATU					AS	D				
PART B Description		_									If co	ntinuati	on sheet us	ed, tick here
1 The process giving	STATE AND ADDRESS OF				40	CORSC	TOWN	SIC (2007)	for the	nrocess glvi			ACCOUNT OF THE PARTY OF THE PAR	W/
3 WASTE DETAILS (wh														196
Description of waste		Lis	st of was	stes	-	Quantity	The chemic	cal/biolog	ical com	ponents in	Physical fo	orm	Hazard	Container
		(EV	NC code	e)(6 digi	ts)	(kg)	the waste a			ations are:	(gas, liquio powder, sl		code(s)	type, number and size
							Componen		(% or i	mg/kg)	or mixed)			
Soil		l	70	50	3	20000	asayti	cirk bow	78	0.1%	SUL	D	HP7	TIPPER
The information given	below is	to t	be comp	leted fo	r ea	ch EWC iden	ntified							
EWC code	UN ider		ation	Prope	r shi	pping name	(s)	UN clas	ss(es)	Packing g	roup(s)		al handling ements	
					1		.1							
				Š			The State of							4
PART C Carrier's o	certifica	ite		100		100			the second	PART D	Consigno	's cert	ificate	
(If more than one carr		d, p	lease at	ttach sc	hedu	ule for subse	equent carrie	rs. If sche	dule of	I certify the	at the inform	ation in	A, B and C h	nas been s registered or
carriers is attached tie	in the first of the second) he co	onsignm	nent and	l tha	t the details	in A2, A3 an	d B3 are		exempt an	d was advis	ed of the	e appropriat	e precautionary
correct and I have bee	en advise	d of	any spe	ecific ha	ndlii	ng requireme	ents.			correctly a	nd the carrie	er has be		of any special
Where this note compr	ises part	of a	multiple	collecti	on th	ne round nur	mber and coll	ection nun	iber are:		equirements hat I have fu		v duty to api	oly the waste
1 Carrier name:	105-	10	2./.	α.Δι	21/	NAN				hierarchy a	as required b and Wales) R	y Regula	ation 12 of t	
On behalf of (name	address	s, pp	stcode,	telepho	one,	e-mail, facsi	imile):	/	,		nor name: 🕰	-	113 20111	
On behalf of (name	teu.	1	-TD.	801	2N-	SIDE,	HERTE	terd k	D	On behalf	of (name, a	ddress, p	oostcode, te	lephone, e-mail, HWORKS
2 Carrier registration	か、 い no./reas	on fo	or exem	ption:	-7	2 10				UNIT	2B.	PARI	R LAN	1€
2 Carrier registration 7	298	7						. 17	. <	KIRV	CBY IN	AS	HFIEL	9 4€
3 Vehicle registration	no. (or r	node	e of tran	isport, ii	not	road):	LICE)	WZ		NE	*SALL	119	10711	TLE
Signature № W					- I						806			- Nolel
Date * 18-6				ne 🚺	3/6	40					AND THE RES			ne [35]
PART E Consigned	e's cert	-		CONTRACTOR OF STREET	_			ted all of t EWC code			n below must nanagement			11.7
Individual EWC code(s) received	Quantity (or ea	acii EWC	. code re	cerv	reu (kg)		accepted,	20 9000 00 002	St. 100 St. 10	a.,agement	- Feruit		
				1										
1 I received this wast	te at the	addr	ress give	en in A3	on:	Date	2 - A		Tin	ne	9 60			Y.
2 Vehicle registration	no. (or r	mode	e of trar	nsport if	not	road):				Name:				
3 Where waste is reje	ected nle	ase	provide	details						On behalf facsimile)		ddress, I	oostcode, te	lephone, e-mail,
y where waste is reje	- stad pic		,											
I certify that waste pe	rmit/exe	mpt	waste n	peratio	n nu	mber:								
. certify that waste pe	cre	Pre												1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
authorises the manag	gement o	f the	waste	describe	ed in	B at the ad	dress							
given in A3. Where the consignme										Slengtur				
as identified in Part C.	, Leertify	that	the tota	al numb	er of					Date			Y Y	me

	Ticket No. 315421
WWW.COLLINSEARTHWORKS.CO.UK UNIT 2B, PARK LANE, KIRKBY-IN-ASHFIELD, NOTTINGHAM NG17 9LE Tel: 01623 750002 Carriers Waste Certificate No: CB/KM3484KR Tip Licence No: EPR/AB30390B	Haulier: Driver: Reg No: Lorry Size: Order No: Daywork/Waiting time:
Collected from: (Name and address)	Tipped at: (Name and address) Storywood Rd
Hemel Hemptead	Retuberough
Hemel Hemptend Signed:	Retubblication Signed:
Signed: Material Description: HD2 TWA	Signed: EWC code: 17005 SIC Code: 43, 11
Spising Sugar as a prediction of the property	EWC code: 170.05
Material Description: Gross Tare: Sold subject to our Conditions of Sale, payable and Measures Act 1985 Conditions of Sale, payable and Measure	EWC code: 17005 SIC Code: 43.11

White: Customer Yellow: Office Pink: Transfer Note Blue: Haulier

ASBESTOS 2.

Waste Transfer / Delivery Note	Ticket No. 315414	
Section of the sectio	Date: 16 54) 8	
(6000000	Haulier:	i
	Driver:	
WWW.COLLINSEAR I HWOHNS.CO.ON UNIT 2B, PARK LANE,	Reg No: CON	
NOTTINGHAM NG17 9LE Tel: 01623 750002	Lorry Size: X &	
Carriers Waste Certificate No:	Order No:	
Tip Licence No: EPR/AB30390B	Daywork/Waiting time:	
	Tipped at:	
(Name and address)	(Name and address)	
Tackend Galleral	Standard and	
Heme Hempetrad	L'ACTION ON IN	
Signed:	Signed:	
Material Description:	EWC code: ()	
Has Mack	SIC Code: (13:1)	
Gross: Tare:	Nett XX Tonnes	
Sold subject to our Conditions of Sale, payable within 30 days of collection, copy available on request. Weights and Measures Act 1985 Conveyance note, Controlled Waste (Registration of carriers & Seizure of Vehicles) Regulation 1991 Waste Transfer Note.	within 30 days of collection, copy available on yance note, Controlled Waste (Registration of llation 1991 Waste Transfer Note.	
I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the waste (England & Wales) Regulation 2011.	ply the waste hierarchy as required by and & Wales) Regulation 2011.	(18
White: Customer Yellow: Office F	Pink: Transfer Note Blue: Haulier	5
)

Transter / Delivery Note
ns hodenet "Slam e nem nonstrub. Disessant inmed
WWW.COLLINSEARTHWORKS.CO.UK UNIT 2B, PARK LANE,
KIRKBY-IN-ASHFIELD, NOTTINGHAM NG17 9LE Tel: 01623 750002
Carriers Waste Certificate No: CB/KM3484KR Tip Licence No: EPR/AB30390B
J.W.C
d months
organistics and organistics are organistically and organistics and organistics are organistically and organistics and organistics and organistics are organistically and organistics and organistics and organistics are organistically and organistics are organistics and organistics and organistics are organistics and organistics and organistics are organistics and organistics and or
Tare:
Sold subject to our Conditions of Sale, payable within 30 days of collection, copy available on request. Weights and Measures Act 1985 Conveyance note, Controlled Waste (Registration of carriers & Seizure of Vehicles) Regulation 1991 Waste Transfer Note.
I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the waste (England & Wales) Regulation 2011.
White: Customer Yellow: Office
178

Waste Transfer Delivery Note	Ticket No. 315420
WWW.COLLINSEARTHWORKS.CO.UK UNIT 2B, PARK LANE, KIRKBY-IN-ASHFIELD, NOTTINGHAM NG17 9LE Tel: 01623 750002 Carriers Waste Certificate No: CB/KM3484KR Tip Licence No: EPR/AB30390B	Date: -
Collected from: (Name and address) Collins Clowing Maylands Gateway Hempstead	Tipped at: (Name and address) Fugean PL Stantown Ra
Signed:	Signed:
Material Description: Haz Much	EWC code: 70605 SIC Code: 43.7
Gross: 31, 88 Tare:	Net 8'60 Tonnes
Moscures Act 1985 Con	e within 30 days of collection, copy available on veyance note, Controlled Waste (Registration of gulation 1991 Waste Transfer Note.
I confirm that I have fulfilled my duty to Regulation 12 of the waste (En	apply the waste hierarchy as required by gland & Wales) Regulation 2011.
White: Customer Yellow: Office	Pink: Transfer Note Blue: Haulier





HAULAGE CONTRACTORS LTD

Tel: 01707 261166 • Fax: 01707 261

V.A.T. registration No. 740 1114 90

CONVEYANCE / DELIVERY NOTE

DATE

0

Name and Site Address: Deliver to / collect from



bsi. 150 14001 Environmental Management THE QUALITY SCHEME FOR THE CONCRETE TOWN WINED CONCRETE TOWN THE CONCRETE TOWN T	5874SH	SHOO! IICKE! DUTY OF CARE CONTROLLED WASTE TRANSFER NOTE Environmental Protection Act 1990		cs aminated Sites	Collection Non Hazardous Waste Collection Hazardous Waste 38.12	How is it contained Skip Drum (specify)	ier of Waste
RACTORS LTD Sord Road, Hatfield, Herts. AL9 5RB 66 • Fax: 01707 261184	n No. 740 1114 90 WRA Waste Reg. No. CB/GN5874SH	NOTE SHOOT LICKE I DUTY OF CARE CON	Description of Descri	Concrete Con	SIC 41.20	Name of person in charge of vehicle— Name of person in charge of vehicle— Loose Sk	Current Holder of Waste

	Site Name and Address	2
	A Collation	
	Company carrying the Waste	Date of 1st Movement
Λ.	Name of Company Transfer/Disposal Details	sal Details
	LOTION I MATTON	15/00/24
ant	Name and address of site VA	Waste, Management Licence or Exemption
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

I CONFIRM THAT I HAVE FULFILLED MY DUTY TO APPLY THE WASTE HIERARCHY AS BEGULATIONS 2011. Date Signed for and on behalf of the disposer

outpowers and arithmeticles off the public highway do so entirely at their own risk.

NB. To Customers, Authorised Agents, Representatives or Responsible Persons, signing the delivery We regret we cannot under any circumstances entertain any claims concerning quantity or quality Certified that the above particulars are true and relate to the sand and ballast being conveyed in the vehicle described, which sand or ballast is being so conveyed in pursuance of a sale or an agreeme You are accepting the full trading terms and conditions of B. P. Mitchell Haulage Contractors Ltd. ticket. This is in your interest - Please read the ticket fully and inspect material, agreeing quantity, quality and that everything is to your satisfaction before signing this receipt note. once the vehicle has left the site and a clear signature has been given. for the sale thereof made by volume. Signed on behalf of RECEIVED BY Site Operator Tare SIGN Nett ry Print Management T: 0845 388 3874 Ref. D/15368 (09/2014)

Time on Site:

Registration No.

Description of Material

Cubic Metres (in words)

Gross



HAULAGE CONTRACTORS LTD





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(1) 0

V.A.T. registration No. 740 1114 90 WRA Waste Reg. No. CB/GN5874SH Tel: 01707 261166 · Fax: 01707 261184

SHOOT TICKET

CONVEYANCE / DELIVERY NOTE

DATE

Name and Site Address: Deliver to / collect from

DUTY OF CARE CONTROLLED WASTE TRANSFER NOTE Environmental Protection Act 1990

Construction and	Demolition Wastes	EWC 17 09 04	Iron & Steel	EWC 17:04:03] EWC	Collection	Hazardous Waste 38.12		
Description of Waste & EWC (✓)	Excavated Subsoils	EWC 17 05 04	Concrete, Bricks	EWC 1/ 01 0/	EWC 17 05 00	Collection	Non Hazardous Waste	How is it contained	HOW IS It continued

SIC 41.20

	2000	Purrant Holder of Macte
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Site Name and Address

Company carrying the Waste

Date of 1st Movement

Transfer/Disposal Details とからから Name of Company

Waste, Management Licence or Exemption Name and address of site

Date	
disposer	
of the	
behalf	
and or	
igned for	

I CONFIRM THAT I HAVE FULFILLED MY DUTY TO APPLY THE WASTE HIERARCHY AS BEGINDED BY BEGIN ATIONS 2011

14

once the vehicle has left the site and Certified that the above particulars are vehicle described, which sand or ball for the sale thereof made by volume.	once the venicle has left the site and a cheaf signature lies been given. Certified that the above particulars are true and relate to the sand and ballast vehicle described, which sand or ballast is being so conveyed in pursuance for the sale thereof made by volume.
RECEIVED BY Signed on behalf of Site Operator	PRINT NAME
Sign	DATE

riory Print Management T: 0845 388 3874 Ref. D/15368 (09/2014)

Tonnes Name of person in charge of vehicle Time off Site: Description of Material LA. Cubic Metres (in words) Time on Site: Registration No.

Gross Tare Nett

NB. To Customers, Authorised Agents, Representatives or Responsible Persons, signing the delivery ticket. This is in your interest - Please read the ticket fully and inspect material, agreeing quantity, You are accepting the full trading terms and conditions of B. P. Mitchell Haulage Contractors Ltd. quality and that everything is to your satisfaction before signing this receipt note.

We regret we cannot under any circumstances entertain any claims concerning quantity or quality

if a sale or an agreement being conveyed in the

Customers ordering vehicles off the public highway do so entirely at their own risk.





Rhys Roberts

Crossfield Consulting Ltd The Granary White Hall Farm Leamington Road Long Itchington Warwickshire CV47 9PU

CV47 9PU

e: RR@crossfield-consulting.co.uk

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

t: 01923 225404 **f:** 01923 237404

e: reception@i2analytical.com

Analytical Report Number: 18-86031

Project / Site name: Maylands Gateway, Hemel Hempstead Samples received on: 18/05/2018

Your job number: CCL02935 Samples instructed on: 18/05/2018

Your order number: PO10590 Analysis completed by: 23/05/2018

Report Issue Number: 1 **Report issued on:** 23/05/2018

Samples Analysed: 3 soil samples

Signed:

Jordan Hill Reporting Manager

For & on behalf of i2 Analytical Ltd.

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

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

Standard sample disposal times, unless otherwise agreed with the laboratory, are : soils - 4 weeks from reporting

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

Excel copies of reports are only valid when accompanied by this PDF certificate.





Project / Site name: Maylands Gateway, Hemel Hempstead

Your Order No: PO10590

Lab Sample Number				964023	964024	964025		
Sample Reference				x1	x2	x3		
Sample Number			None Supplied	None Supplied	None Supplied			
Depth (m)			None Supplied	None Supplied	None Supplied			
Date Sampled			17/05/2018	17/05/2018	17/05/2018			
Time Taken			None Supplied	None Supplied	None Supplied			
			A					
		Limit of detection	(6)					
Analytical Parameter	Units	tec	edi					
(Soil Analysis)	ß	tio of	:us					
		3 "	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1		
Moisture Content	%	N/A	NONE	14	15	17		
Total mass of sample received	kg	0.001	NONE	0.39	0.49	0.47		
							•	•
Asbestos in Soil Screen / Identification Name	Туре	N/A	ISO 17025	Chrysotile	Chrysotile	Chrysotile		
· · · · · · · · · · · · · · · · · · ·	_			•		,		
Asbestos in Soil	Type	N/A	ISO 17025	Detected	Detected	Detected		
Asbestos Quantification (Stage 2) Asbestos Ouantification Total	%	0.001	ISO 17025	< 0.001	< 0.001	< 0.001	 	-
Aspestos Quantification Total	%	0.001	ISO 17025	< 0.001	< 0.001	< 0.001		
General Inorganics								
pH - Automated	pH Units	N/A	MCERTS	7.7	7.8	7.9		
Total Cyanide	mg/kg	1	MCERTS	5	2	< 1	1	1
Total Sulphate as SO ₄	mg/kg	50	MCERTS	540	700	520		
rotal parphate as 504	9/.19		11021110	3.0	700	525		
Water Soluble SO4 (2:1 Leach. Equiv.) 1hr extraction	g/l	0.00125	MCERTS	0.11	0.12	0.082		
Sulphide	mg/kg	1	MCERTS	< 1.0	2.7	2.9		
Total Sulphur	mg/kg	50	MCERTS	270	610	200		
Total Organic Carbon (TOC)	%	0.1	MCERTS	1.1	1.6	1.0		
Total Phenois						ī	· F	
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Speciated DAUs								
Speciated PAHs Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05		
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05		
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05		
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05		
Phenanthrene	mg/kg	0.05	MCERTS	0.36	0.20	< 0.05		
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05		
Fluoranthene	mg/kg	0.05	MCERTS	0.51	0.36	< 0.05		
Pyrene	mg/kg	0.05	MCERTS	0.43	0.30	< 0.05		
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.29	< 0.05	< 0.05		
Chrysene	mg/kg	0.05	MCERTS	0.38	< 0.05	< 0.05	ĺ	ĺ
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	0.25	< 0.05	< 0.05		
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	0.27	< 0.05	< 0.05	1	1
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.19	< 0.05	< 0.05		
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05		
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	1	1
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05		
19 /1 / · ·							•	•
Total PAH								
Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	2.68	0.83	< 0.80	I	i





Project / Site name: Maylands Gateway, Hemel Hempstead

Your Order No: PO10590

Lab Sample Number				964023	964024	964025		
Sample Reference			x1	x2	x3			
Sample Number	None Supplied	None Supplied	None Supplied					
Depth (m)				None Supplied	None Supplied	None Supplied		
Date Sampled				17/05/2018	17/05/2018	17/05/2018		
Time Taken				None Supplied	None Supplied	None Supplied		
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Heavy Metals / Metalloids	=		=					
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	11	12	10		
Boron (water soluble)	mg/kg	0.2	MCERTS	1.4	2.9	2.4		
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2		
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0		
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	30	30	26		
Copper (aqua regia extractable)	mg/kg	1	MCERTS	72	31	20		
Lead (agua regia extractable)	mg/kg	1	MCERTS	41	51	27		
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	28	20	23		
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	1.1	< 1.0	< 1.0		
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	64	80	59		
Monoaromatics								
Benzene	ug/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	
Toluene	μg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		

MCERTS

MCERTS

MCERTS

MCERTS

μg/kg

μg/kg

μg/kg

μg/kg

Petroleum Hydrocarbons

MTBE (Methyl Tertiary Butyl Ether)

Ethylbenzene

p & m-xylene

o-xylene

Petroleum Hydrocarbons							
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	7.2	44	2.4	
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	20	14	3.8	
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	99	130	< 8.0	
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	270	460	29	
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	390	650	42	
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	1.8	8.7	1.9	
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	6.7	13	4.4	
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	90	160	< 10	
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	180	400	19	
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	280	590	35	

< 1.0

< 1.0

< 1.0

< 1.0

< 1.0

< 1.0

< 1.0





Project / Site name: Maylands Gateway, Hemel Hempstead

Your Order No: PO10590

Certificate of Analysis - Asbestos Quantification

Methods:

Qualitative Analysis

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

Quantitative Analysis

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

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

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

Both Qualitative and Quantitative Analyses are UKAS accredited.

Sample Number	Sample ID	Sample Depth (m)	Sample Weight (g)	Asbestos Containing Material Types Detected (ACM)	PLM Results	Asbestos by hand picking/weighing (%)	Total % Asbestos in Sample
964023	x1		117	Loose Fibres	Chrysotile	< 0.001	< 0.001
964024	x2		128	Loose Fibres	Chrysotile	< 0.001	< 0.001
964025	x3		167	Loose Fibres	Chrysotile	< 0.001	< 0.001

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





Project / Site name: Maylands Gateway, Hemel Hempstead

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

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

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
964023	x1	None Supplied	None Supplied	Brown clay with gravel and chalk.
964024	x2	None Supplied	None Supplied	Brown clay with vegetation and gravel
964025	x3	None Supplied	None Supplied	Brown clay with gravel.





Project / Site name: Maylands Gateway, Hemel Hempstead

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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Asbestos Quantification - Gravimetric	Asbestos quantification by gravimetric method - in house method based on references.	HSE Report No: 83/1996, HSG 248, HSG 264 & SCA Blue Book (draft).	A006-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 2, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP- OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP- OES.	L038-PL	D	MCERTS
Sulphate, water soluble, in soil (1hr extraction)	Sulphate, water soluble, in soil (1hr extraction)	In-house method	L038-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests""	L009-PL	D	MCERTS





Project / Site name: Maylands Gateway, Hemel Hempstead

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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L038-PL	D	MCERTS
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, and MEWAM 2006 Methods for the Determination of Metals in Soil	L038-PL	D	MCERTS
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method	L088/76-PL	W	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.





Caroline Walliss

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WD18 8YS

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Analytical Report Number: 18-87917

Project / Site name: Maylands Gateway, Hemel Hempstead Samples received on: 05/06/2018

Your job number: CCL02935 Samples instructed on: 05/06/2018

Your order number: PO10625 Analysis completed by: 08/06/2018

Report Issue Number: 1 **Report issued on:** 08/06/2018

Samples Analysed: 5 soil samples

Signed:

Dr Claire Stone Quality Manager

For & on behalf of i2 Analytical Ltd.

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

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

Standard sample disposal times, unless otherwise agreed with the laboratory, are : soils - 4 weeks from reporting

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

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Project / Site name: Maylands Gateway, Hemel Hempstead

Your Order No: PO10625

Lab Sample Number				975252	975253	975254	975255	975256
Sample Reference				x4	x5	x6	x7	x8
Sample Number				None Supplied				
Depth (m)				None Supplied				
Date Sampled				05/06/2018	05/06/2018	05/06/2018	05/06/2018	05/06/2018
Time Taken				None Supplied				
		de L	Acc					
Analytical Parameter	Units	te ini	redi					
(Soil Analysis)	its	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	18	19	21	19	16
Total mass of sample received	kg	0.001	NONE	0.38	0.40	0.46	0.43	0.36
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
General Inorganics								
pH - Automated	pH Units	N/A	MCERTS	7.3	7.8	7.8	7.9	8.0
Total Cyanide	mg/kg	1	MCERTS	< 1	< 1	< 1	5	< 1
Total Sulphate as SO ₄	mg/kg	50	MCERTS	510	690	340	590	450
Water Soluble SO4 (2:1 Leach. Equiv.) 1hr extraction	g/l	0.00125	MCERTS	0.12	0.059	0.077	0.070	0.090
Sulphide	mg/kg	1	MCERTS	9.6	1.2	2.3	540	2.3
Total Sulphur	mg/kg	50	MCERTS	490	290	220	300	240
Total Organic Carbon (TOC)	%	0.1	MCERTS	0.8	0.8	0.6	1.0	0.6
Total Dhamala								
Total Phenois			MOEDTO	. 1.0	. 1.0	. 1.0	. 1.0	. 1.0
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	0.39	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	0.16	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.80	< 0.05	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	0.59	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.36	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	0.31	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.40	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.15	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.38	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total PAH								
Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	3.54	< 0.80	< 0.80	< 0.80





Project / Site name: Maylands Gateway, Hemel Hempstead

Your Order No: PO10625

Lab Sample Number				975252	975253	975254	975255	975256
Sample Reference				x4	x5	x6	x7	x8
Sample Number				None Supplied				
Depth (m)				None Supplied				
Date Sampled				05/06/2018	05/06/2018	05/06/2018	05/06/2018	05/06/2018
Time Taken				None Supplied				
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Heavy Metals / Metalloids	-		-					
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	12	10	13	14	13
Boron (water soluble)	mg/kg	0.2	MCERTS	1.6	1.1	1.0	1.7	1.4
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	42	37	52	39	38
Copper (aqua regia extractable)	mg/kg	1	MCERTS	24	25	16	24	23
Lead (aqua regia extractable)	mg/kg	1	MCERTS	32	28	17	31	24
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	35	33	21	33	29
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	1.3	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	86	65	43	120	62
Monoaromatics								
Benzene	ug/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	μg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

< 1.0

< 1.0

< 1.0

MCERTS

MCERTS

MCERTS

MCERTS

μg/kg

μg/kg

μg/kg

μg/kg

< 1.0

< 1.0

< 1.0

< 1.0

< 1.0

< 1.0

< 1.0

< 1.0

< 1.0

< 1.0

Petroleum Hydrocarbons

MTBE (Methyl Tertiary Butyl Ether)

Ethylbenzene

p & m-xylene

o-xylene

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	2.7	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	8.5	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	24	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	18	< 8.0	< 8.0	54	< 8.0
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	23	< 10	< 10	89	< 10
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	1.2	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	5.6	< 2.0	3.5	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	< 10	23	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	31	< 10	67	< 10
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	48	< 10	94	< 10





Project / Site name: Maylands Gateway, Hemel Hempstead

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

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

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
975252	x4	None Supplied	None Supplied	Brown clay and sand with gravel.
975253	x5	None Supplied	None Supplied	Brown clay and sand with gravel.
975254	x6	None Supplied	None Supplied	Brown clay with gravel.
975255	x7	None Supplied	None Supplied	Brown clay and sand with gravel.
975256	x8	None Supplied	None Supplied	Brown clay and sand with gravel.





Project / Site name: Maylands Gateway, Hemel Hempstead

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

	1	, , , , , , , , , , , , , , , , , , , ,		<u> </u>	1
Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in soil Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.		In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 2, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Speciated EPA-16 PAHs in soil Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.		In-house method based on USEPA 8270	L064-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP- OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP-OES.	L038-PL	D	MCERTS
Sulphate, water soluble, in soil (1hr extraction)	Sulphate, water soluble, in soil (1hr extraction)	In-house method	L038-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total cyanide in soil Determination of total cyanide by distillation followed by colorimetry.		In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests'''	L009-PL	D	MCERTS
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L038-PL	D	MCERTS





Project / Site name: Maylands Gateway, Hemel Hempstead

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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, and MEWAM 2006 Methods for the Determination of Metals in Soil	L038-PL	D	MCERTS
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method	L088/76-PL	W	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.



APPENDIX II - RECORDS OF POST ENABLING WORKS/CONSTRUCTION PHASE REMEDIATION WORKS

Introduction

Post enabling works/construction phase remediation works were recommended based on the assessments within the Supplementary Ground Investigation Report. The recommended works have been undertaken at the site following completion of the earthworks operations. These works included the placement of a suitable thickness of topsoil within soft landscaping areas (if ashy Made Ground remained at the surface following completion of the earthworks operations), the installation of multi-layer barrier pipe for the potable water supply and post earthworks gas monitoring for each unit.

The following information is included in this Appendix.

- Barry Chinn Associates Landscape Proposal drawing nos. 1644/16.dwg Rev 07 and 1644/16-07.dwg Rev 08
- Affinity Water Proposed Route for New Supply drawing no. DS0015140-01 Rev C1
- Photographs showing the water pipe installation

A separate Ground Gas Assessment has been completed and reported for each of the Units, Unit 1, Units 2 to 3, Unit 5, Unit 6 and Units 7-10 and are reported under separate cover as listed in the References of this Report.







EXISTING TREES AND HEDGEROWS TO BE RETAINED (Refer to the Pre Development Tree Survey for detail)

EXISTING TREES AND HEDGEROWS TO BE REMOVED

EXTRA HEAVY STANDARD TREES (*Tree pit size: 1000x1000x750mm*) 14-16cm girth 4.25-6m height 1.8-2.1m clear stem

ApD Pa Acer platanoides 'Deborah' Prunus avium
Tilia cordata 'Greenspire TcGS Sorbus aucuparia Sa Qr Quercus robur

GENERAL NOTE

Species marked # to be fitted with 600mm high x 200mm diameter rabbit guards. Species marked + to be fitted with 600mm high x 90mm diameter rabbit guards

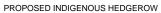


PROPOSED THICKET MIX PLANTING

(300mm depth of topsoil)
Where thicket is planted next to a hard surface/kerb/fence, it should be positioned 1m

Transplanto planted in groups of 7 To of the same species of a 1:om gna							
%	Species	Common Name	Supply Size				
20%	Acer campestre +	Field Maple	400-600mm 1+1 OG				
10%	Carpinus betulus #	Hornbeam	400-600mm 1+1 OG				
15%	Corylus avellana #	Hazel	400-600mm 1+1 OG				
20%	Crataegus monogyna #	Hawthorn	400-600mm 1+1 OG				
5%	llex aquifolium	Holly	400-600mm 2L				

400-600mm 1+1 OG 5% Ligustrum vulgare # 10% Prunus spinosa # Blackthorn 400-600mm 1+1 OG 10% Salix caprea # Goat Willow 400-600mm 1+1 OG 400-600mm 1+1 OG 5% Ulex europeaus #



(300mm depth of topsoil)
Planted at 450mm centres in a double staggered row. Rows to be 500mm apart.

%	Species	Common Name	Size	Age	Root	
10%	Acer campestre +	Field maple	400-600mm	1+1	OG	
10%	Corylus avellana #	Hazel	400-600mm	1+1	OG	
50%	Crataegus monogyna #	Hawthorn	400-600mm	1+1	OG	'B'
5%	llex aquifolium	Holly	400-600mm		2L	
5%	Ligustrum vulgare	Privet	400-600mm	1+1	OG	
7.5%	Prunus spinosa #	Blackthorn	400-600mm	1+1	OG	
5%	Salix caprea #	Goat Willow	400-600mm	1+1	OG	
7.5%	Sambucus nigra #	Elder	400-600mm	1+1	OG	

PROPOSED FORMAL NATIVE HEDGE

(300mm depth of topsoil)

Planted at 450mm centres in a double staggered row. Rows to be 500mm apart

% Species		Common Name	Supply Size	
Carpinus betulu	ıs#	Hornbeam	1000-1250mm	1+2 B

PROPOSED AMENITY GRASS AREAS

(150mm depth of topsoil)
Grass seed (DLF Trifolium Pro Master 120 Slowgrowth), sown at 35-50g/m2.



PROPOSED ECOLOGICAL GRASSLAND AREAS

(150mm depth of topsoil)
EM2 General Purpose Meadow mixture sown at 4g/m2 supplied by Emosgate Seeds



PROPOSED TIMBER POST AND 3 RAIL FENCE

PROPOSED 3m WIDE FOOTPATH/CYCLE PATH (To be surfaced in tarmacadam)

PROPOSED 1.8 / 2.0m WIDE FOOTPATH (To be surfaced in tarmacadam)

REV E	Landscape key updated following comments from Herts Ecolgogy officer	25-05-17 MAB
REV D	Proposed planting to cemetery boundary updated	09-01-17 MAB
REV C	Red line boundary updated	04-01-17 MAB
REV B	Area of amenity lawn increased in size	22-12-16 MAB
REV A	Drawing formally illustrative site sections.	20-12-16 MAB
DEVINOTE		DATE ALITH



LANDSCAPE PROPOSAL -Sheet 2 of 2

CONTRACT	Г 1644/16			DRG NO.
DATE	December 2016	DRAWN	MAB	08
ISSUE	Planning	CHECKED	BRC	
SCALE	1:500	ORIG SHEET	A2	REV
CAD FILE	1644/16-07.dwg			E

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Refer to drg 1644/16-07 for continuation

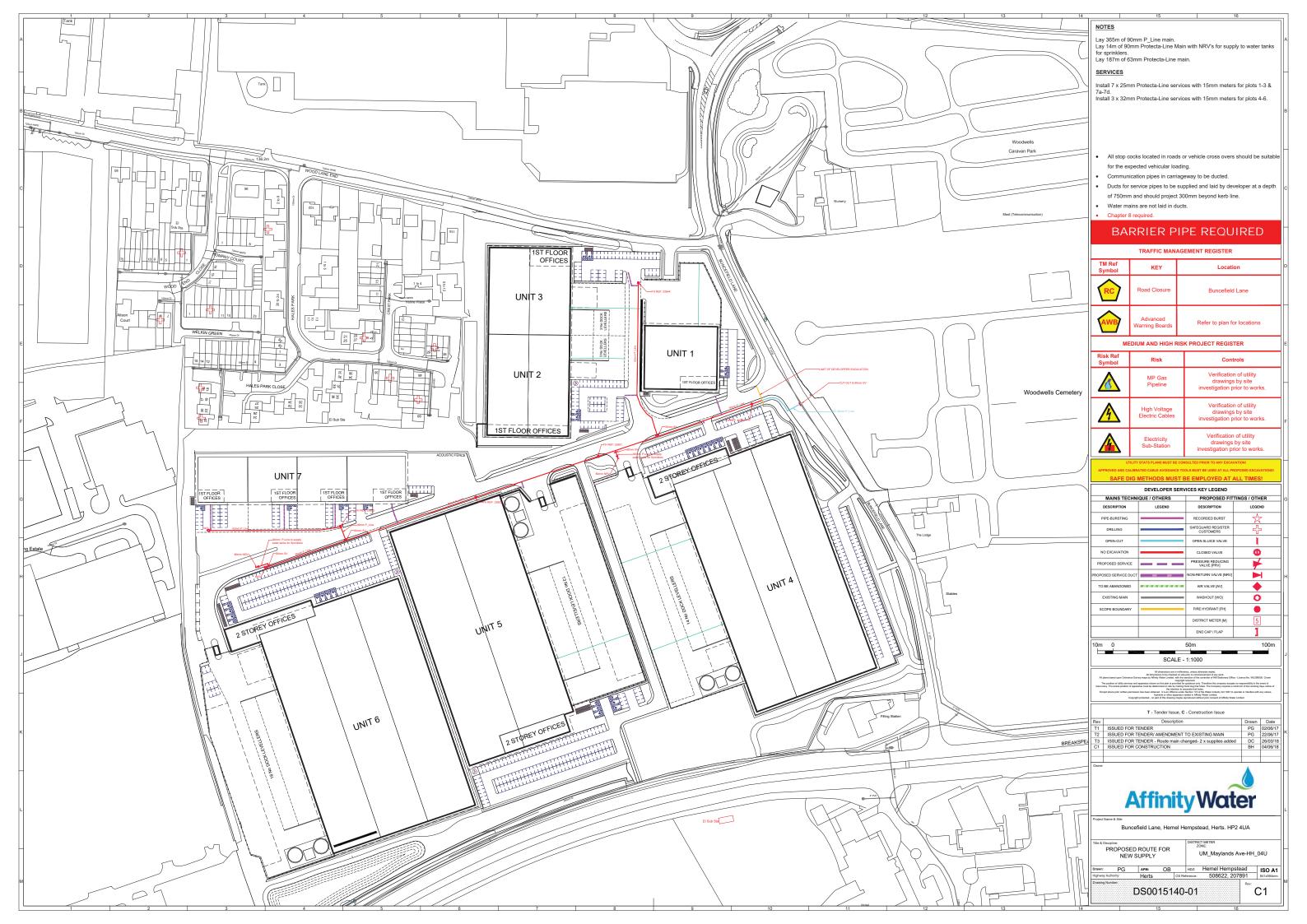




Plate 1 – Installed multi-layer barrier pipe (Protecta-Line)



Plate 2 – Installed multi-layer barrier pipe (Protecta-Line)