



WATER ENGINEERING & MANAGEMENT

**QUERCUS
CONSULTING
LIMITED**

Verification Report in connection with

The remediation of contaminated land

Adjacent to Higham Railway Station, Higham, Kent ME3 7JQ

For A Maisy Esq.

April 2014

Amended January 2015

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Amendment

Following the initial submission of this report, the Environment Agency requested a programme of groundwater monitoring and testing to confirm that historic activities had not contaminated groundwater at the site and to confirm that the remediation works had been completed satisfactorily.

Accordingly, an additional section has been added together with Appendix K which presents the laboratory test certificates.

Introduction and site description

On 9th November 2011, Mr A Maisey/Generation Fuels Limited purchased a parcel of land, extending to approximately 1.3 ha, east of School Lane, Higham, Kent and adjacent to Higham Station. The site had in recent years been neglected and used as a tip. The land had been the subject of a Contamination Risk Assessment prior to his ownership and Mr Maisey has undertaken the recommended works to remediate the land. This report details the works involved together with the results of tests made on samples removed from the site to assess the effectiveness of the remediation works. In addition, the results of tests undertaken on water abstracted from a borehole constructed at the site are presented.

From the documents transferred at the time of the sale it would appear that an incomplete set of reports relating to Environmental Risk and associated matters was provided. Reference has therefore been made to the documents that are available.

Approach to the Preparation of this Verification Report

Quercus Consulting Limited was appointed to prepare this report after the majority of the remediation works had been completed. We have referred to the original Risk Assessment, evidence of the materials removed from site, the treatment or disposal of those materials and site observations and tests undertaken post remediation.

Reference has also been made to 'Model Procedures for the Management of Land Contamination (CLR11) and the Draft Report on Verification of Remediation of Land Contamination published by the Environment Agency.

Recent History of Ownership

The site was purchased by Wards Construction (Medway) limited from the British Railways Board on 31st January 1985. It was subsequently purchased by Mr Nicholas Pearman on 6th April 2005, but it is not known if there were other owners during the intervening periods. As stated above the site was acquired by Mr A Maisey on 9th November 2011.

Location

The site is located to the east of School Lane, Higham and Higham Station. It is bounded to the north by the railway line and to the south by the cliff created when chalk was quarried in the past. To the west of the site is the car park used by passengers using the railway. A site location plan is included as Appendix A.

Topography

The site is for the main part level with an elevation of approximately 4.5m aOD. To the south is a cliff, 10 -15m high created when chalk was quarried in the past.

Geology and Hydrogeology

Reference has been made to Sheet 272 – Chatham published by the British Geological Survey. This shows that the site is primarily on the Upper Chalk of the Upper Cretaceous strata. It would historically have been overlain by Head from the more recent Pleistocene period, but this has been removed probably as part of the quarrying activities. There is evidence of its presence at the top of the cliff on the south side of the site.

The site is located on a major aquifer, being approximately 400m from Higham Pumping Station which is located on School Lane and is owned by Southern Water. Data published by the Environment Agency show that the site lies within a groundwater source protection zone. The plan, which is included as Appendix C shows that the site is divided by the boundary between Zones 1 and 2. Zone 1 is the inner protection zone and is based on the 50 day travel time from any point below the water table. Zone 2 is the outer protection zone defined as the 400 day travel time from a point below the water table. The Higham Pumping Station is understood to be operational although it may not currently be pumping to supply. The aquifer is at risk of saline intrusion, and contamination with nitrates and pesticides due to agricultural activities in the area.

History

The history of the site is directly related to the construction of the Thames and Medway Canal which was built to provide a shorter route between the two rivers, the reduction being from forty seven to seven miles, avoiding the need to navigate around the Isle of Grain. Construction started in April 1819 with the canal being opened in October 1824.

A feature of the canal was the Strood Tunnel which runs for three miles from the vicinity of the site and Higham Station to Strood and the River Medway. For barges to pass through the tunnel it was necessary to lower their masts and a basin was constructed in the vicinity of the station for this purpose.

The canal was not a successful enterprise and with the advent of the railways a railway line was routed through the tunnel supported on trestles constructed on one side of the tunnel. Following the formation of the Gravesend and Rochester Railway and Canal Company, trains started running on 10th February 1845 and in the following year the line was bought by the South Eastern Rail Company who immediately filled the waterway through the tunnel cutting the canal into two sections. The second track opened on 23rd August 1847. Activity continued on the section of canal to the west of Higham, but does not appear to have had an impact on the site which is the subject of this report.

In preparing this report reference has been made to 'A History of Higham Volume II' written by Andrew Rootes and published in 2012. The section entitled 'The Railway' notes that farm produce was transported to market from the station and that there was a busy goods yard with sidings and a brick built shed between the up-side platform and the tunnel entrance. This is believed to have been on the site discussed

in this study, there also being a siding on the down side. There were also cattle pens. According to this History, British Rail closed the yard in September 1961 as it was 'unremunerative'. 'Higham in Old Photographs Volume II' compiled by Andrew Rootes and published in 2007 shows on page 46 an aerial photograph dated June 1950 provided by English Heritage (NMR) RAF Photography. This shows the area of Lower Higham including the railway line, station and site of the former goods yard. As far as can be seen, the yard was adjacent to the railway line with much of the site covered by trees and vegetation.

At some time prior to the acquisition of the site by the current owner the site had become derelict and been used as a dump raising concerns of possible pollution.

Environment Agency Data and Groundwater Source Protection Zones

The Environment Source Protection Zone map for the site is included in Appendix C. This shows that the site is divided between Zones 1 and 2 related to the Southern Water services borehole situated at School Lane, Higham, approximately 400 metres from the site.

Remediation Activities

Works were conducted on the site between September and December 2012 and details of the materials removed are provided in Appendices D – I. These cover the removal of soil, mixed soil and concrete, concrete and brick, concrete, tyres and general waste. All these materials were removed to licensed disposal facilities.

Post Remediation Testing

Following the removal of the potentially contaminated material Environmental Scientific Group were instructed to undertake sampling and testing to establish the effectiveness of the remediation activities.

On 15th January 2014, six samples were taken from hand dug trial pits and delivered to the ESG laboratories at Burton-on-Trent for UKAS accredited laboratory analysis.

Their report is attached as Appendix K and concludes that for 43 determinands, no results exceeded the Generic Assessment Criteria and it has been concluded that there is no significant risk to future site users from chemical contaminants analysed and that the remediation activities undertaken have been in accordance with the planning conditions set out by Gravesham Borough Council.

Water Quality Testing Results

In 2012, a borehole was constructed at the site with a view to developing a supply of water for bottling and sale. In preparation for this, samples were taken and submitted to accredited laboratories for testing. The associated test result schedules have been included as Appendix J.

The test results were initially encouraging with the exception of elevated nitrate concentrations. Additional testing was therefore undertaken during the summer and

autumn of 2012 to evaluate the trend in nitrate concentrations. This initially showed a reduction, but subsequently the trend was upwards and breached the PCV limit such that the proposal to develop a source at the site was discounted. The nitrate concentrations are believed to be a consequence of agricultural activities in the catchment and this is corroborated by the low levels of simazine and atrazine which were detected.

Levels of heavy metals were found to be low suggesting that activities previously on the site had not contaminated the groundwater in respect of these parameters.

Groundwater Monitoring October to December 2014

Following the submission of the initial version of this Verification Report the Environment Agency sought reassurance regarding the possibility of groundwater contamination at the site as a consequence of historic activities at this location.

Following discussions with staff at the Agency it was agreed that samples should be taken at fortnightly intervals for the period up to Christmas 2014 and tested for heavy metals, hydrocarbons and PAH parameters.

Samples were therefore taken and delivered to the laboratories of South East Water for testing. The results are summarised below and the test certificates are presented in Appendix L.

Date of sample			29/10/2014	12/11/2014	26/11/2014	10/12/2014
Parameter	Units	PCV				
Antimony	µg Sb/l	5.00	0.21	0.19	0.19	0.2
Arsenic	µg As/l	10.00	0.3	0.2	0.1	0.3
Selenium	µg Se/l	10.00	3.421	3.777	3.231	3.891
Cadmium	µg Cd/l	5.00	<0.08	<0.08	<0.08	<0.08
Chromium	µg Cr/l	50.00	<0.5	<0.5	<0.5	<0.5
Copper	mg Cu/l	2.00	<0.005	<0.005	<0.005	<0.005
Lead	µg Pb/l	10.00	<0.7	<0.7	<0.7	<0.7
Zinc	µg Zn/l	5000.00	1.7	<2.5	<2.5	<2.5
Thallium	µg Tl/l	2.00	<0.1	<0.1	0.1	<0.1
Silver	µg Ag/l	10.00	<0.18	<0.18	<0.18	<0.18
Nickel	µg Ni/l	20.00	3.1	3.1	3.1	3.1
Hydrocarbons	µg/l	10.00	<10.00	<10.00	<10.00	<10.00
Benzo (a) Pyrene	µg/l	0.01	<0.001	<0.001		
Benzo [1,12] perylene	µg/l		<0.001	<0.001		
Benzo [11,12] fluoranthene	µg/l		<0.001	<0.001		
Benzo [3,4] fluoranthene	µg/l		<0.001	<0.001		
Fluoranthene	µg/l		<0.003	<0.003		
Indeno (1,2,3-cd) Pyrene	µg/l		<0.001	<0.001		
Polycyclic Aromatic Hydrocarbons	µg/l	0.1	0	0		
Hydrogen ion pH	pH unit	6.5 - 10.0	7.4	7.3		

The PCV's in white cells are taken from current UK Water Quality Regulations. PCV's in yellow cells are taken from the Water Quality Regulations 1989 and the PCV in orange cells is taken from the US EPA standards.

It should be explained that due to a misunderstanding with the instructions issued to the laboratory, tests for PAH parameters were not undertaken on the samples taken on 26th November and 10th December 2014, but due to the fact that the results for the two previous samples showed consistently low concentrations the absence of the later results is not regarded as a matter of concern.

Prior to the Amendment of this report, the results were presented to staff at the Environment Agency who have confirmed that no further measures will be required to address contamination at the site under the proposed permitted use.

Summary, Conclusions and Recommendations

Since purchasing the site, the owner has undertaken remediation activities in accordance with planning condition 6 of the Grant of Planning Permission reference GR/20070891 dated 24th February 2009.

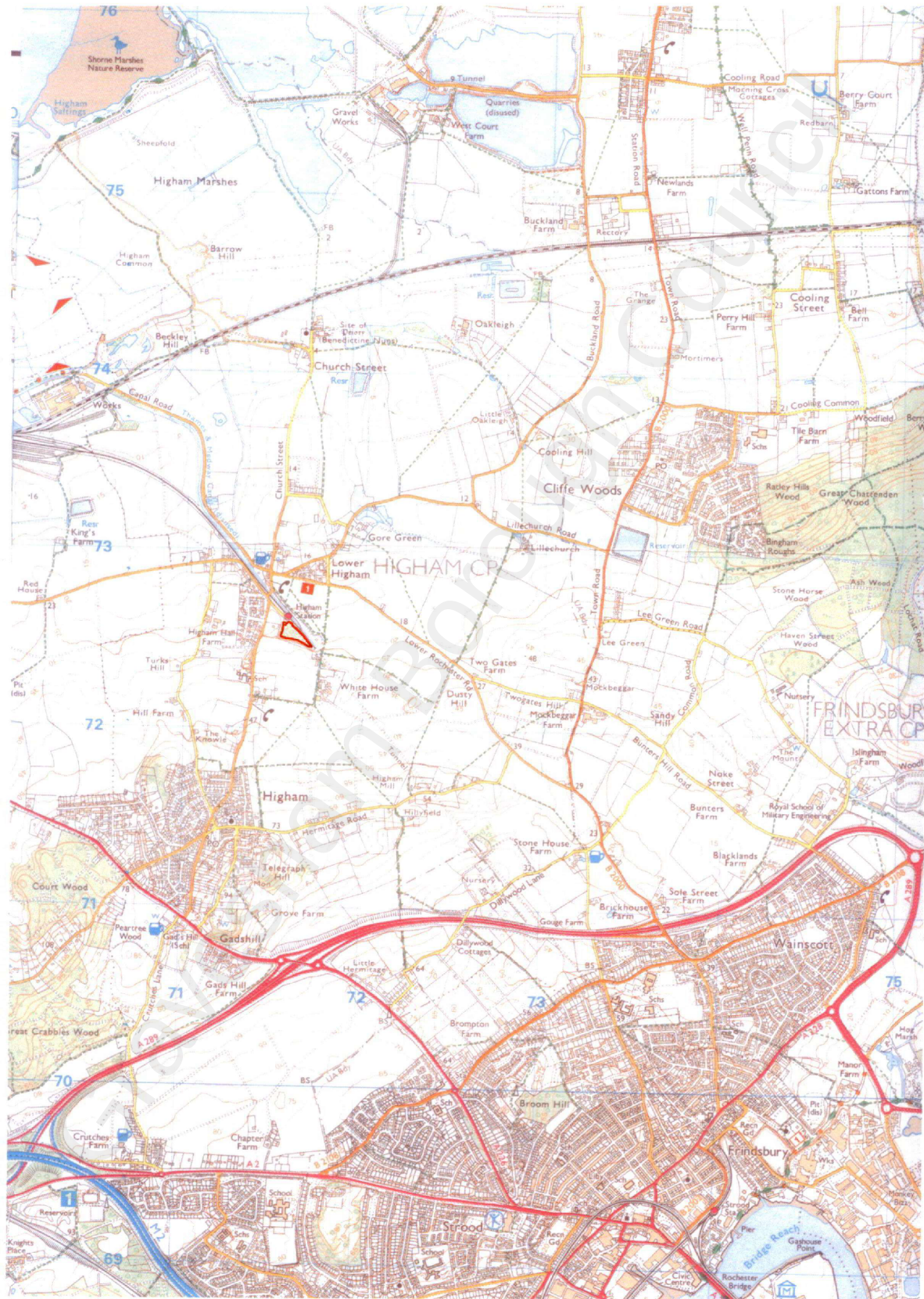
Following the completion of the remedial activities, post remediation testing has been conducted by Environmental Scientifics Group Limited which has concluded that the programme has removed any significant risk to future occupants of the site and this has been corroborated by water quality testing of water abstracted from a borehole on the site.

In addition, an agreed programme of sampling and testing has been completed to demonstrate that there are no identified elevated concentrations in the groundwater that indicate that it has been contaminated by historic practices at the site

It is concluded that the site remediation has been completed satisfactorily and that there are no residual risks.

It is recommended that it should be confirmed that the terms of condition 6 of the Grant of Planning Permission reference GR/20070891 dated 24th February 2009 have been satisfied.

Appendix A – Site Location Plan



not scaled from this drawing

Car park

- Car bays — 2.5 x 5 m.
- Van bays — 3 x 5 & 3.5 x 6.5 m.
- Disabled bays — 3.6 x 5 m.
- Road widths — 7 & 8 m.

Light industrial units

- Units 1, 2, 3 & 6 — 9.6 x 15.62 m.
= 150 sq.m.
- Units 4 & 5 — 9.6 x 10.41 m.
= 100 sq.m.
- Parking = 1 car per 35 sq.m.
= 1 van per unit
+ 8 vans & 13 cars

THE PENSHERST PARTNERSHIP
ARCHITECTS AND PLANNERS
2 CHANCEL COTTAGES
SANDS HILL
KENT TN11 8ER
TELEPHONE / FAX 01892 879946

Client Mr. N. PEARMAN

Job title Higham Railway Station
Proposed extension to
car park & B1 light
industrial units.

Drawing title Site plan

Scale 1:500

Date 1.9.06

Drawn by

Eng. No. 0058-02

Issue

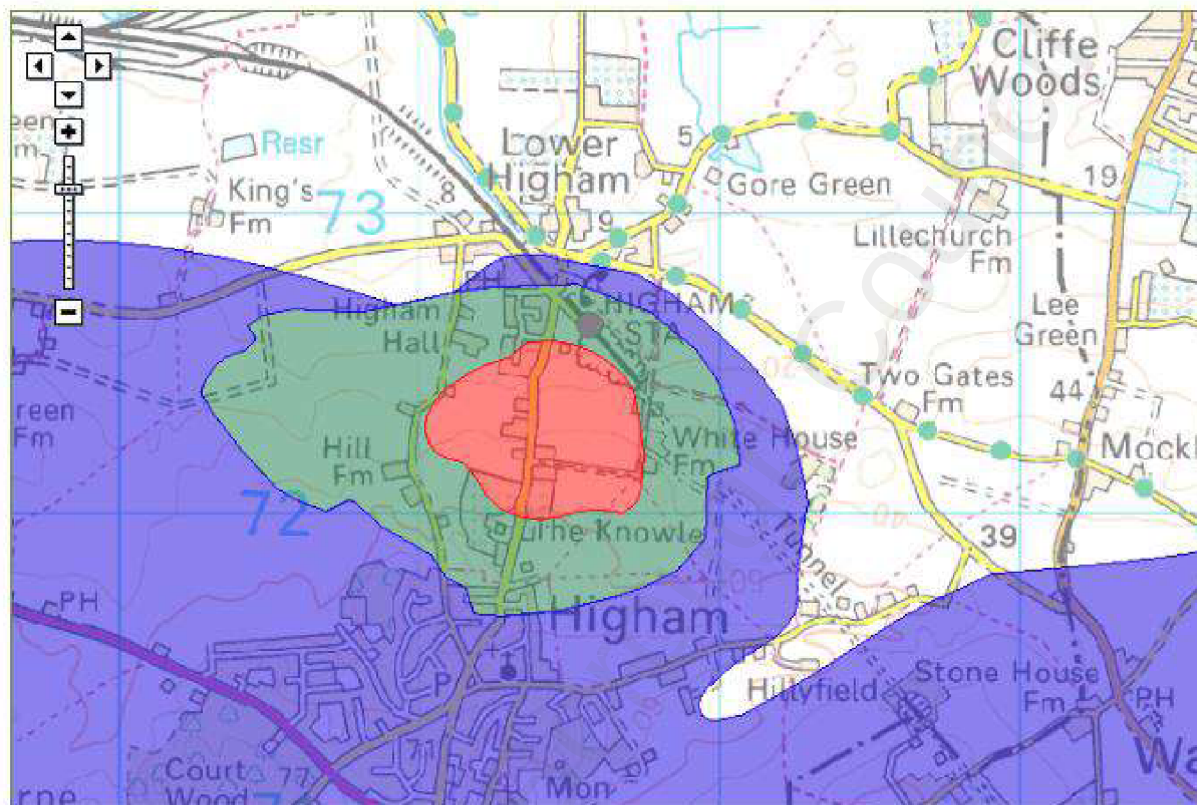
42924848mm

1000

Appendix C – Groundwater Source Protection Zones

Higham, Kent at scale 1:20,000

[Data search](#) [Text only version](#)



Customers in Wales - From 1 April 2013 Natural Resources Wales (NRW) will take over the responsibilities of the Environment Agency in Wales.
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 Contains Royal Mail data © Royal Mail copyright and database right 2013.
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Appendix D – Schedule of Non Hazardous Waste Transfer Notes

Company: Hunts Waste. Haulier: Bright Waste Limited. Carrier Registration: CB/ME5694EX.
Disposal Site: Hunts Waste, Dagenham, Essex

Sample Transfer Note

DUTY OF CARE - CONTROLLED WASTE TRANSFER NOTE		000605
Time on Site	Date	Drivers Name
Time off Site	8/10/12	JOHN
DESCRIPTION OF WASTE		
European Waste Code (EWC)		
Waste Information No. (WIF)		
Description of Waste	NON HAZ	
Quantity	1 LOAD	
CURRENT HOLDER OF THE WASTE		
Producer Name	HIGHAM PARKING LTD	
Site Address	HIGHAM STATION	
Postcode	HIGHAM / KENT	
PERSON COLLECTING THE WASTE		
Vehicle Registration		
Haulier	BRIGHT WASTE LTD	
Carrier Registration		
Gross		
Tare	1.5 M	
Nett		
PLACE OF TRANSFER		
Disposal Site	HUNTS WASTE	
Address	ESSEX	
Postcode		
SIGNATURES OF ALL PARTIES TO THE TRANSFER		
Producer	Sign	
Driver	Sign	
Disposal Facility	Sign	Print

Customers ordering vehicles off the public road do so entirely on their own responsibility

Sample Receipt Note

DUTY OF CARE WASTE TRANSFER NOTE / PERMIT TO TIP			
huntswaste		WASTE IN ☒ OUT ☐	
Haulage ☒ Excavation ☒ Plant Hire ☒ Contractors 75 - 77 Chequers Lane, Dagenham, Essex RM9 6QJ Tel: 020 8517 4440 Fax: 020 8517 2228 Waste Carrier's Licence No. EAN / 959198 / CB Waste Management Licence No. EPR / DP3295 VM		TICKET No. H11/ 18651	
Customer / Collection Point Higham Parkings Ltd Higham Railways station ker Carpark		VEHICLE REG'N No. R206 CER	
CONTACT TEL. No.		DATE 8.10.12	
PRODUCER ☒ RECEIVER ☐		WEIGHSOFT REF. 	
DESCRIPTION OF MATERIAL (WASTE & CODE) BUILDERS CONSTRUCTION/DEMO ☐ MIXED ☐ EWC 17-09-04 ☐ HARDCORE ☐ EWC 17-01-07 MULCH/INERT ☐ NON-HAZARDOUS ☐ EWC 17-05-04 ☐ GENERAL WASTE ☐ EWC 19-12-12 PLASTERBOARD ☐ WOOD ☐ EWC 17-08-02 ☐ EWC 17-02-01 ☐ CANTEEN/KITCHEN ☐ FACTORY/OFFICE ☐ WASTE ☐ WASTE ☐ EWC 20-01-08 ☐ EWC 20-03-01 ☐ OTHER ☐ EWC ☐		NOTES 1 Load Non Haz	
HOW CONTAINED LOOSE ☒ SKIP ☐ COMPACTOR ☐		I have read and accept the Terms and Conditions as printed overleaf	
OTHER (SPECIFY)		COMPANY NAME HUNT WASTE 75-77 CHEQUERS LANE DAGENHAM ESSEX RM9 6QJ TEL: 020 8517 4440 FAX: 020 8517 2228	
PLACE OF DELIVERY 75-77 Chequers Lane, Dagenham, Essex RM9 6QJ		CUSTOMER'S SIGNATURE [Signature]	
OTHER (SPECIFY)		CUSTOMER'S NAME (PRINT)	
SITE LICENCE No. (IF NOT ABOVE) Issued By		HAULIER [Signature]	
EXEMPT (REASON)			

Priory Print Management T: 0845 388 3874 Ref. D/14166 (06/2011)

Ticket No.	Date	Vehicle Reg.	Load
H11/18651	8 th October 2012		15m ³
H11/18652	8 th October 2012		15m ³
H11/18653	8 th October 2012		15m ³
H11/18654	8 th October 2012		15m ³
H11/18655	9 th October 2012		15m ³
H11/18656	9 th October 2012		15m ³
H11/18657	9 th October 2012		15m ³
H11/18658	9 th October 2012		15m ³
H11/18676	10 th October 2012		15m ³
H11/18677	10 th October 2012		15m ³
H11/18678	10 th October 2012		15m ³
H11/18679	10 th October 2012		15m ³
H11/18680	11 th October 2012		15m ³
H11/18681	11 th October 2012		15m ³
H11/18682	11 th October 2012		15m ³

H11/18683	11 th October 2012		15m ³
H11/18701	12 th October 2012		15m ³
H11/18702	12 th October 2012		15m ³
H11/18703	12 th October 2012		15m ³
H11/18704	12 th October 2012		15m ³
H11/18659	15 th October 2012		15m ³
H11/18660	15 th October 2012		15m ³
H11/18661	15 th October 2012		15m ³
H11/18662	15 th October 2012		15m ³
H11/18663	15 th October 2012		15m ³
H11/18664	15 th October 2012		15m ³
H11/18665	15 th October 2012		15m ³
H11/18666	15 th October 2012		15m ³
H11/18684	16 th October 2012		15m ³
H11/18685	16 th October 2012		15m ³
H11/18686	16 th October 2012		15m ³
H11/18687	16 th October 2012		15m ³
H11/18688	16 th October 2012		15m ³
H11/18689	16 th October 2012		15m ³
H11/18690	16 th October 2012		15m ³
H11/18691	16 th October 2012		15m ³
H11/18667	17 th October 2012		15m ³
H11/18668	17 th October 2012		15m ³
H11/18669	17 th October 2012		15m ³
H11/18670	17 th October 2012		15m ³
H11/18671	17 th October 2012		15m ³
H11/18672	17 th October 2012		15m ³
H11/18673	17 th October 2012		15m ³
H11/18674	17 th October 2012		15m ³
H11/18675	17 th October 2012		15m ³
H11/18692	17 th October 2012		15m ³
H11/18693	17 th October 2012		15m ³
H11/18694	17 th October 2012		15m ³
H11/18695	18 th October 2012		15m ³
H11/18696	18 th October 2012		15m ³
H11/18697	18 th October 2012		15m ³
H11/18698	18 th October 2012		15m ³
H11/18699	18 th October 2012		15m ³
H11/18700	18 th October 2012		15m ³

Appendix E – Schedule of Wheels and Tyres Removed from the site

Company: Investech T/A PTS Tyres. Unit 1 Detling Aerodrome Estate, Maidstone, Kent ME14 3HU

Invoice Number	Date	Casing on Wheels	Car Tyres	Lorry Tyres
26259	9 th October 2012	57	273	0
26347	16 th October 2012	16	192	4
26546	22 nd October 2012	22	32	11
Totals		95	497	15

Sample Invoice

UNIT 1,
DETLING AERODROME ESTATE,
MAIDSTONE,
KENT ME14 3HU
TEL: 01622 739142
FAX: 01622 735016
Email: sales@ptstyres.co.uk

INVESTECH (UK) LTD T/A



HIGHAM STATION PARKING LTD
THE JAYS
PARSONAGE LANE
BOBBING
KENT
ME9 8PZ

Delivery Note No. D18793

Invoice	26347
Tax Date	16/10/2012
Order No.	
Account No.	CHEQUE
Reg No.	LOOSE

Details	Quantity	Unit Price	Net Amount
CASING DISPOSAL ON WHEEL	16	1.50	24.00
CASING DISPOSAL CAR	192	1.00	192.00
CASING DISPOSAL TRUCK	4	4.00	16.00
<i>Cash Paid</i>			

EVERY EFFORT IS MADE TO ENSURE THAT
YOU LEAVE OUR PREMISES SAFELY. PLEASE
ENSURE YOU CHECK YOUR WHEEL TRIMS
BEFORE LEAVING THE PREMISES AND
CHECK YOUR WHEEL RETENTION AND TYRE
PRESSURES WITHIN 24 HOURS OR 30 MILES
(WHICHEVER IS FIRST) OF FITMENT AND
SUBSEQUENT REGULAR PERIODS.

VAT REG. 771 8132 26
E. & O.E.

Total Net	232.00
Total Vat	46.40
Invoice Total	278.40
"ALL GOODS RECEIVED IN GOOD ORDER" SIGNATURE	

Appendix F – Schedule of Soil Transfer Notes

Haulier: Bright Waste Limited. Carrier Registration: CB/ME5694EX.
Disposal Site: Knowle Hill, Deangate Golf Course, Hoo ME3 8RZ
European Waste Code: 170504. Waste Information Number: DG377

Sample Transfer Note

DUTY OF CARE CONTROLLED WASTE TRANSFER NOTE		2842
Time on site 9.05	Date 25-9-12	Drivers Name STEVE
Time off site 9.15		
DESCRIPTION OF WASTE		
European Waste Code (EWC)	1 7 0 5 0 4	
Waste Information No (WIF)	D G 3 7 7	
Description Of Waste	Soil	
Quantity	15m ³	
CURRENT HOLDER OF THE WASTE		
Producer name	HIGHAM STATION PARKING LTD	
Site address	LAND ADJ HIGHAM STN	
Postcode	ME3 7JQ	
PERSON COLLECTING THE WASTE		
Vehicle Registration	CV02 XYX	
Haulier	BRIGHT	
Carrier Registration	CB/ME5694EX	
Gross		
Tare		
Nett		
PLACE OF TRANSFER		
Disposal site	Knowle Hill	
Address	DEANGATE GOLF COURSE, HOO	
Postcode	ME3 8RZ	
SIGNATURES OF ALL PARTIES TO THE TRANSFER		
Producer	Sign	Print
Driver	Sign	
Disposal Facility	Sign	

Customers ordering vehicles off the site are responsible for ensuring the correct vehicle is used for the transfer.

Sample Receipt Note

 377 GF 99880

KNOWLE HILL LIMITED 2842

Knowle Hill Limited Academy House, 241 Chertsey Road, Addlestone, Surrey KT15 2EW
t 01932 580700 f 01932 580704 e office@knowlehill.net w knowlehill.net

CUSTOMER BRIGHT DATE 26.9.12
HIGHAM

SITE NO. REG NO. CV02 XYX

MATERIAL (tick as appropriate)

INERT ☒ TOPSOIL ☐ HARDCORE ☐ NON-HAZ ☐

LOAD	
8 wheel	

DRIVER SIGNATURE

PRINT NAME

SIGNATURE (RECEIVING)

PRINT NAME

Receipt Note	Delivery Note	Date	Vehicle Registration	Load
GF101183	2102	18 th September 2012		15m ³
GF101208	2103	18 th September 2012		15m ³
GF101163	2101	18 th September 2012		15m ³
GF101157	2122	18 th September 2012		15m ³
GF101180	2126	18 th September 2012		15m ³
GF101222	2104	19 th September 2012		15m ³
GF101257	2130	19 th September 2012		15m ³
GF99874	2144	19 th September 2012		15m ³
GF101268	2141	19 th September 2012		15m ³
GF101253	2138	19 th September 2012		15m ³
GF101234	2148	19 th September 2012		15m ³
GF101243	2105	19 th September 2012		15m ³
GF99876	2134	20 th September 2012		15m ³
GF101280	3160	20 th September 2012		15m ³
GF101283	1047	20 th September 2012		15m ³
GF99873	2133	20 th September 2012		15m ³
GF99877	3167	21 st September 2012		15m ³
GF101358	3168	21 st September 2012		15m ³
GF99878	3185	21 st September 2012		15m ³
GF101359	3166	21 st September 2012		15m ³
GF101375	3186	21 st September 2012		15m ³
GF101388	3184	21 st September 2012		15m ³
GF101490	2838	26 th September 2012		15m ³
GF101478	3162	25 th September 2012		15m ³
GF101565	2805	26 th September 2012		15m ³
GF99879	2832	26 th September 2012		15m ³
GF99884	2801	26 th September 2012		15m ³
GF101557	2803	26 th September 2012		15m ³
GF99882	2830	26 th September 2012		15m ³
GF99880	2842	26 th September 2012		15m ³
GF101547	3170	26 th September 2012		15m ³
GF99885	3154	27 th September 2012		15m ³
GF101590	3178	27 th September 2012		15m ³
GF99888	2820	27 th September 2012		15m ³
GF101633	2813	28 th September 2012		15m ³
GF99889	2817	28 th September 2012		15m ³
GF101625	2822	28 th September 2012		15m ³
GF101639	2826	28 th September 2012		15m ³
GF99891	2839	28 th September 2012		15m ³

Appendix G – Schedule of Concrete, Soil and Brick Transfer Notes

Haulier: Bright Waste Limited. Carrier Registration: CB/ME5694EX.
 Disposal Site: Knowle Hill, Deangate Golf Course, Hoo ME3 8RZ
 European Waste Code: 170504. Waste Information Number: DG377

Concrete and Brick

Receipt Note	Delivery Note	Date	Vehicle Registration	Load
GF101227	2120	19 th September 2012	[REDACTED]	15m ³

Haulier: A & R Colbert Services Limited. Carrier Registration: CB/MN5517VZ.
 Disposal Site: ABC Crayford

Concrete and Soil

Sample Transfer Note

DUTY OF CARE - CONTROLLED WASTE TRANSFER NOTE 2005

Time on site	Date	Drivers Name
Time off site	19/12/11	ColBent.
DESCRIPTION OF WASTE		
European Waste Code (EWC)		
Waste Information No (WIF)		
Description Of Waste	Concrete + Soil	
Quantity	Fifteen metres.	
CURRENT HOLDER OF THE WASTE		
Producer name	Generation Fuels.	
Site address	Higham Railway Station	
Postcode		
PERSON COLLECTING THE WASTE		
Vehicle Registration	[REDACTED]	
Haulier	A & R	
Carrier Registration		
Gross		
Tare		
Nett		
PLACE OF TRANSFER		
Disposal site	A. B. C	
Address	CRAYFORD	
Postcode		
SIGNATURES OF ALL PARTIES TO THE TRANSFER		
Producer	Sign	Print
Driver	Sign	[REDACTED]
Disposal Facility	Sign	[REDACTED]
Customers ordering vehicle		
Register		
Nursted Court Farm, Nursted Church Lane		

Transfer Note	Date	Vehicle Registration	Load
2005	19 th December 2011	[REDACTED]	15m ³
2006	19 th December 2011	[REDACTED]	15m ³
2007	19 th December 2011	[REDACTED]	15m ³

2008	19 th December 2011		15m ³
2009	19 th December 2011		15m ³
2010	19 th December 2011		15m ³
2011	20 th December 2011		15m ³
2012	20 th December 2011		15m ³
2013	20 th December 2011		15m ³
2014	20 th December 2011		15m ³
2015	20 th December 2011		15m ³
2016	20 th December 2011		15m ³
2017	21 st December 2011		15m ³
2018	21 st December 2011		15m ³
2019	21 st December 2011		15m ³
2020	21 st December 2011		15m ³
2020	21 st December 2011		15m ³
2021	21 st December 2011		15m ³
2022	21 st December 2011		15m ³
2023	22 nd December 2011		15m ³
2024	22 nd December 2011		15m ³
2025	22 nd December 2011		15m ³
2026	22 nd December 2011		15m ³
2027	22 nd December 2011		15m ³
2028	22 nd December 2011		15m ³
2029	23 rd December 2011		15m ³
2030	23 rd December 2011		15m ³
2031	23 rd December 2011		15m ³
2032	23 rd December 2011		15m ³
2033	23 rd December 2011		15m ³
2034	23 rd December 2011		15m ³
2036	24 th December 2011		15m ³

Appendix H – Schedule of Concrete Transfer Notes

Haulier: Bright Waste Limited. Carrier Registration: CB/ME5694EX.
Disposal Site: Gallagher Aggregates Limited, Hermitage Landfill.
European Waste Code: 170504. Waste Information Number: DG377

Sample Transfer Note

DUTY OF CARE – CONTROLLED WASTE TRANSFER NOTE 3152									
Time on site	1120	Date	20-9-12						
Time off site	1145	Drivers Name	MARTIN						
DESCRIPTION OF WASTE									
European Waste Code (EWC)	1	7	0	1	0	1			
Waste Information No (WIF)									
Description Of Waste	CONCRETE								
Quantity	15m								
CURRENT HOLDER OF THE WASTE									
Producer name	HIGHAM STN PARKING LTD								
Site address	LAND ADJ HIGHAM STN								
Postcode	MP3 7JQ								
PERSON COLLECTING THE WASTE									
Vehicle Registration	[REDACTED]								
Haulier	BRIGHT								
Carrier Registration									
Gross									
Tare									
Nett									
PLACE OF TRANSFER									
Disposal site	GALLAGHERS								
Address	HERMITAGE LANE M/STAND								
Postcode									
SIGNATURES OF ALL PARTIES TO THE TRANSFER									
Producer	[REDACTED]	Sign	[REDACTED]	Print					
Driver	[REDACTED]	Sign	[REDACTED]	Print					
Disposal Facility	[REDACTED]	Sign	[REDACTED]	Print					
Customers ordering vehicles off t... ly on their own responsibility									

Sample Receipt Note

Gallagher

Gallagher Aggregates Ltd.
Leitrim House, Little Preston
Aylesford, Maidstone, Kent ME20 7NS
Telephone: 01622 726262 Fax: 01622 729966
Email: aggregates@gallagher-group.co.uk

Customer: CASH SALES Ticket No. 345379 Place of Loading: Hermitage Landfill

Site Address: LAND ADJ C999 HIGHAM TRAIN STATION

Vehicle Reg: RX06CEV
Hauliers Name: D. ANDREWS HAULAGE LIMITED
Waste Carriers Licence: KEN/471994
Conv. Note No.: 3152

Date	Customer O/N	Product	Unit	Gross	Tare	Nett
20-09-2012		CONCRETE AWAY	LOAD	12990		
12:10:11	CONC					

Consec. / No: TAREFILE Manual

Comments:

Driver's Signature:

Cash Details:

£

Weighbridge Operators Signature: Customers Signature: Time:

Print: Print: Date:

410394 WASTE TRANSFER NOTE VAT Registered Number 573 6660 15

Receipt Note	Delivery Note	Date	Vehicle Registration	Load
420198	3164	20 th September 2012		15m ³
410378	3151	20 th September 2012		15m ³
420255	3153	20 th September 2012		15m ³
420394	3152	20 th September 2012		15m ³
410819	3163	27 th September 2012		15m ³
410866	2816	27 th September 2012		15m ³

Appendix I – Schedule of General Waste Disposal Transfer Notes

Haulier: Bright Waste Limited. Carrier Registration: CB/ME5694EX.

Disposal Site: Green Box Recycling Limited, Unit 1, Ashford Industrial Centre, Brunswick Road, Cobbs Wood, Ashford, Kent TN23 1EL

Sample Transfer Note

GREEN BOX RECYCLING
Tel: 01233 660099 Fax: 01233 660044
Unit 1, Ashford Industrial Centre, Brunswick Road, Cobbs Wood, Ashford Kent TN23 1EL
GREENBOX RECYCLING KENT LTD. COMPANY REG NO 07485307

Ticket No. **22001**

COMPANY
BRIGHT WASTE

DESCRIPTION OF GOODS
GENERAL

EUROPEAN WASTE CODE (EWC)
17-09-04

WASTE CONTAINER
☐ SKIP ☐ REL ☐ ENC
☐ 4 ☐ 6 ☐ 8 ☐ 12 ☐ 16
☒ RO RO ☐ 20 ☐ 30 ☒ 40 ☐ COMP
☐ LOOSE ☐ DUSTCART ☐ VAN

ANY PERSONS WHO ENTER THIS SITE DO SO AT THEIR OWN RISK. ANY DAMAGE TO ANY PART OF THE FACILITY WILL BE CHARGED. ANY MATERIALS DEPOSITED WHICH FALL OUTSIDE THE ACCEPTABLE WASTE CATEGORIES WILL BE DISPOSED OF AT THE CUSTOMERS EXPENSE. BY SIGNING BELOW THESE CONDITIONS ARE ACCEPTED ON BEHALF OF THE COMPANY.

04/10/2012 16:11:22
Progressive 13333
Product Code..... 1
GENERAL WASTE
Client code..... BR
Plate..... BRIGHT
CU02 XYX
Rcd Code..... 5997
1.Weight (B) 31240 kg

04/10/2012 16:17:03
Progressive 13336
Product Code..... 1
GENERAL WASTE
Client code..... BR
Plate..... BRIGHT
CU02 XYX
Rcd Code..... 5997
1.Weight (B) 31240 kg
2.Weight (B) 16040 kg
Weighing net 15200 kg

VEHICLE REG'N No.
CU02 XYX

☐ Account

DR
PR

Green Box Recycling Kent Ltd has fulfilled their duty to apply the waste hierarchy as requested by regulation 12 of the waste regulations 2011 (England & Wales).

Invoice Number	Delivery Note	Date	Vehicle Registration	Weight
18164	22001	4 th December 2012		15,200 kg
19331	22828	25 th October 2012		10,420 kg

Appendix J – Water Quality Test Results

ALS Food and Pharmaceutical, 30th April 2013



**Food &
Pharmaceutical**

TEST CERTIFICATE

1st Floor Building 550 Winch Road Kent Science Park Sittingbourne Kent ME9 8EF England
Telephone: 0844 7250742

Page 1 of 3

Mr Malcolm Bailey
Quercus Consulting Ltd
Mayhill House
London Road
Addington
West Malling, Kent
ME19 5AN
Fax: 01732 872 277

Certificate Number: TSBN332807-2 Final
Date Reported: 28/05/2013
Date Analysis Started: 30/04/2013
Order Number:

Lab Ref.	Sample Details	Method Number	Test	Result	Units	Flag
SBN1095415	Received Date: 30/04/2013 Description: 30.04.13 11:30 New Borehole Water at Higham Station	ESGM107	E. coli (presumptive)	0	cfu / 250ml	
		SUB-CON	Flusilazole	<0.004	µg / l	S
		ESGM106	Enterococci (presumptive)	0	cfu / 250ml	
		SUB-CON	Acrylamide	<0.008	µg / l	*
		SUB-CON	Epichlorohydrin	<0.1	µg / l	*
		SUB-CON	Total Indicative Dose	0.142	mSv / Year	*
		SUB-CON	Vinyl Chloride	<0.5	µg / l	*
		SUB-CON	Benzene	<0.1	µg / l	S
		SUB-CON	Cyproconazole	<0.004	µg / l	S
		SUB-CON	EPTC	<0.004	µg / l	S
		SUB-CON	Metalddehyde	<0.005	µg / l	S
		SUB-CON	Carbetamide	<0.01	µg / l	S
		SUB-CON	Lindane	<0.004	µg / l	S
		SUB-CON	Propyzamide	<0.009	µg / l	S
		SUB-CON	Tri-allate	<0.006	µg / l	S
		SUB-CON	Total Pesticide - Waters	0.041	µg / l	S
		SUB-CON	Chlorpyrifos	<0.004	µg / l	S
		SUB-CON	Metaxyl	<0.004	µg / l	S
		ESGM100	Colony Count, 3 days 22°C	31	cfu / ml	
		ESGM100	Colony Count, 1 day 37°C	0	cfu / ml	
		ESGM102	Pseudomonas aeruginosa (confirmed)	0	cfu / 250ml	
		ESGM102	Pseudomonas aeruginosa (presumptive)	11	cfu / 250ml	O
		SUB-CON	Bromoxynil	<0.01	µg / l	S
		SUB-CON	Bentazone	<0.01	µg / l	S
		SUB-CON	Dichlorprop	<0.01	µg / l	S
		SUB-CON	MCPA	<0.01	µg / l	S
		SUB-CON	MCPB	<0.01	µg / l	S
		SUB-CON	Mecoprop	<0.01	µg / l	S
		SUB-CON	Triclopyr	<0.01	µg / l	S
		SUB-CON	Dicamba	<0.01	µg / l	S
		SUB-CON	Fluroxypyr	<0.01	µg / l	S
		SUB-CON	2,4-D	<0.01	µg / l	S
		SUB-CON	2,4,5-T	<0.01	µg / l	S
		SUB-CON	Sulphate	25.9	mg / l SO4	S
		SUB-CON	Bromate Total	<0.001	mg / l	S
		SUB-CON	Cyanide Free	<5	µg / l	S
		SUB-CON	Fluoride	217.00	µg / l	S
		SUB-CON	Boron Total	51.00	µg / l	S
		SUB-CON	Sodium Total	31.3	mg / l	S
		SUB-CON	Aluminium Total	<4.4	µg / l	S
		SUB-CON	Chromium Total	<0.5	µg / l	S
		SUB-CON	Manganese Total	<1.2	µg / l	S
		SUB-CON	Nickel Total	3.6	µg / l	S
		SUB-CON	Copper Total	<0.005	mg / l	S

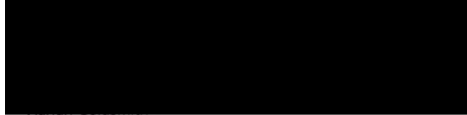
Lab Ref.	Sample Details	Method Number	Test	Result	Units	Flag
SBN1095415	Continued from Page 1	SUB-CON	Arsenic Total	<1	µg / l	S
		SUB-CON	Selenium Total	2.727	µg / l	*
		SUB-CON	Cadmium Total	<0.08	µg / l	S
		SUB-CON	Antimony Total	0.31	µg / l	S
		SUB-CON	Mercury Total	<0.02	µg / l	S
		SUB-CON	Lead Total	<0.7	µg / l	S
		SUB-CON	Tebuconazole	<0.004	µg / l	S
		SUB-CON	Epoxiconazole	<0.004	µg / l	S
		SUB-CON	Carbendazim	<0.01	µg / l	S
		SUB-CON	Nitrite	<0.01	mg / l NO2	S
		SUB-CON	Nitrate	49.1	mg / l NO3	S
		SUB-CON	Aldrin	<0.007	µg / l	S
		SUB-CON	Dieldrin	<0.004	µg / l	S
		SUB-CON	Heptachlor	<0.006	µg / l	S
		SUB-CON	Heptachlor Epoxide	<0.008	µg / l	S
		SUB-CON	Dichlobenil	<0.01	µg / l	S
		SUB-CON	Pendimethalin	<0.004	µg / l	S
		SUB-CON	Fenpropimorph	<0.005	µg / l	S
		SUB-CON	Colour	2.717	mg / l Pt / Co	S
		SUB-CON	Odour Quantitative	0	Dilution Number	S
		SUB-CON	pH Value	7.3	Units	S
		SUB-CON	Taste Quantitative	0	Dilution Number	S
		SUB-CON	Turbidity	0.19	NTU	S
		SUB-CON	Benzo(a)pyrene	<0.001	µg / l	S
		SUB-CON	Benzo(b)fluoranthene	<2	ng / l	S
		SUB-CON	Benzo(ghi)perylene	<1	ng / l	S
		SUB-CON	Benzo(k)fluoranthene	<2	ng / l	S
		SUB-CON	1,2-Dichloroethane	<0.1	µg / l	S
		SUB-CON	Fluoranthene	5	ng / l	S
		SUB-CON	Indeno(1,2,3-cd)pyrene	<1	ng / l	S
		SUB-CON	Polyaromatic Hydrocarbons Total	0.00	µg / l	S
		SUB-CON	Tritium Activity	<5	Bq / l	*
		SUB-CON	Tribromomethane	<0.7	µg / l	S
		SUB-CON	Tetrachloromethane	<0.3	µg / l	S
		SUB-CON	Trichloromethane	<1.1	µg / l	S
		SUB-CON	Chlorodibromomethane	<0.4	µg / l	S
		SUB-CON	Dichlorobromomethane	<0.7	µg / l	S
		SUB-CON	Trihalomethanes Total	0	µg / l	S
		SUB-CON	Tetrachloroethene	<0.1	µg / l	S
		SUB-CON	Trichloroethene	<0.1	µg / l	S
		SUB-CON	Atrazine	0.023	µg / l	S
		SUB-CON	Prometryne	<0.01	µg / l	S
		SUB-CON	Terbutryn	<0.01	µg / l	S
		SUB-CON	Propazine	<0.01	µg / l	S
		SUB-CON	Trietazine	<0.01	µg / l	S
		SUB-CON	Flutriafol	<0.01	µg / l	S
		SUB-CON	Oxadixyl	<0.01	µg / l	S
		SUB-CON	Simazine	0.018	µg / l	S
		SUB-CON	Chlortoluron	<0.01	µg / l	S
		SUB-CON	Diuron	<0.01	µg / l	S
		SUB-CON	Isoproturon	<0.01	µg / l	S
		SUB-CON	Linuron	<0.01	µg / l	S



Certificate Number: TSBN332807-2 Final

Page 3 of 3

Note: all chemistry analysis was subcontracted to another laboratory on our approved list of subcontractors.



General Manager

For and on Behalf of ALS Food and Pharmaceutical

Disclaimers:

The testing results in this certificate relate only to the samples described above. Unless otherwise stated, all results are expressed on an as received basis.

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

*' Indicates a test which is not included in the UKAS accreditation schedule of this laboratory.

Results in bold indicate an out of specification result.

O = Other Specification failure

'S' indicates a test which was sub-contracted to a UKAS accredited laboratory who holds UKAS accreditation for this test.



1282

South East Water Test Results, 2nd September 2013

South East Water Scientific Services
26-28 Sturt Road
Frimley Green
Camberley
Surrey, GU16 6HY
Telephone: 01634 276276
Fax: 01634 276277
E-Mail: sales@southeastwater.co.uk

south east water
scientific services

ANALYTICAL REPORT

Page 1 of 2

Quercus Consulting Limited
Mayhill House
London Road, Addington
West Malling
Kent
ME19 5AN

Certificate Number: 186838-1 Final

Order Number:

Task Number: 2466

Date Received: 02/09/2013

Date Reported: 01/10/2013

Lab Ref.	Sample Details	Method	Test	Result	Units	Flag
1628885	Description: NEW BOREHOLE AT HIGHAM STATION Sample Type: WATER Received Date: 02-SEP-13 Sampling Date: 29-AUG-13	55	Boron	0.037	mg B/l	
		55	Calcium	111.2	mg Ca/l	
		55	Magnesium	5.1	mg Mg/l	
		55	Potassium	3.70	mg K/l	
		55	Sodium	24.2	mg Na/l	
		235	Alkalinity	329	mg /l	
		doc	Carbonate Alkalinity	0.01	mg /l	*
		doc	Hydroxide Alkalinity	0.66	mg /l	*
		75	Fluoride	0.236	mg F/l	
		doc	Bromine	<0.10	mg Br2/l	*
		extz	Free Carbon dioxide	31.20	mg CO2/l	*
		doc	Dissolved Oxygen	8.6	mg O2/l	*
		docz	Iodine	<0.050	mg/l	*
		730	Aluminium	24.1	µg Al/l	
		735	Barium	73.714	µg Ba/l	
		730	Copper	<0.005	mg Cu/l	
		730	Iron	4.4	µg Fe/l	
		730	Manganese	<1.2	µg Mn/l	
		730	Zinc	8.4	µg Zn/l	
		750	Lithium	6.4	µg Li/l	
		750	Cobalt	<0.7	µg Co/l	
		750	Molybdenum	0.6	µg Mo/l	
		755	Strontium	1165.7	µg Sr/l	*
		255	Ammonium (Ammonia and Ammonium Ions)	<0.010	mg NH4/l	
		215	Chloride	41.23	mg Cl/l	
		245	Nitrate	39.3	mg NO3/l	
		225	Nitrite	<0.006	mg NO2/l	
		285	Silica	21.9	mg SiO2/l	
		305	Sulphate	27.6	mg SO4/l	

Disclaimers:

Unless otherwise stated, all results are expressed on an as received basis.

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

ext - Analysis subcontracted to an external laboratory

doc - Individually documented method, details available on request

F - result exceeds the maximum PCV as defined in the Water Supply (Water Quality) Regulations 2000

* - denotes non UKAS accredited method

A result of 0 cfu denotes none found in volume analysed

The start date of analytical testing and Uncertainty of Measurement are available on request

All analytical quality control associated with these results was satisfactory, details are available on request



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South East Water Ltd, Registered in England, No.2679874. Registered Office: Rockfort Road, Snodland, Kent ME6 5AH.

Certificate Number: 186838-1 Final

Task Number:

Lab Ref.	Sample Details	Method	Test	Result	Units	Flag
1628885	Continued from Page 1	doc	Total Phosphate	<70.00	µg/l	*
		660	Conductivity	664	µS/cm	
		660	Hydrogen Ion (pH)	7.3	pH_unit	
		doc	Sulphide (as S)	<0.10	mg/l	*
		ext	Silicate	28.40	mg/l	
		doc	Dry Residue @ 180	418	mg/l	*
		doc	Dry Residue @ 260	420	mg/l	*
		250	Total Organic Carbon	1.2	mg C/l	

Richard Brown
Laboratory Manager

Disclaimers:

Unless otherwise stated, all results are expressed on an as received basis.

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

ext - Analysis subcontracted to an external laboratory

doc - individually documented method, details available on request

F - result exceeds the maximum PCV as defined in the Water Supply (Water Quality) Regulations 2000

* - denotes non UKAS accredited method

A result of 0 cfu denotes none found in volume analysed

The start date of analytical testing and Uncertainty of Measurement are available on request

All analytical quality control associated with these results was satisfactory, details are available on request

Appendix K – ESG Report – Higham Station – Validation Sampling and Contamination Assessment

Gravesham Borough Council

Appendix L - Groundwater Monitoring October to December 2014 – Test Result Certificates

South East Water Scientific Services
25-28 Sturt Road
Frimley Green
Camberley
Surrey, GU15 6HT
Telephone: 01534 276275
Fax: 01534 276277
E-Mail: sales@southeastwater.co.uk

south east water
scientific services

ANALYTICAL REPORT

Page 1 of 2

Quercus Consulting Limited
Mayhill House
London Road, Addington
West Malling
Kent
ME19 5AN

Certificate Number: 260008-1 Final

Order Number:

Task Number: 2466

Date Received: 31/10/2014

Date Reported: 13/11/2014

Lab Ref.	Sample Details	Method	Test	Result	Units	Flag
1739657	Description: NEW BOREHOLE AT HEGIAN STATION Sample Type: WATER Received Date: 31-OCT-14 Sampling Date: 29-OCT-14	745	Arsenous	0.21	µg Sb/l	
		745	Arsenic	0.3	µg As/l	
		745	Selenium	3.421	µg Se/l	
		400	Hydrocarbons	<10.00	µg/l	*
		715	Cadmium	<0.08	µg Cd/l	
		715	Chromium	<0.5	µg Cr/l	
		730	Copper	<0.005	mg Cu/l	
		730	Lead	<0.7	µg Pb/l	
		730	Zinc	1.7	µg Zn/l	
		750	Thallium	<0.1	µg Tl/l	*
		480	Benzo (a) pyrene	<0.001	µg/l	
		480	Benzo(1,12)perylene	<0.001	µg/l	
		480	Benzo(1,12)fluoranthene	<0.001	µg/l	
		480	Benzo(1,4)fluoranthene	<0.001	µg/l	
		480	Fluoranthene	<0.003	µg/l	
		480	Indeno(1,2,3-cd)Pyrene	<0.001	µg/l	
		480	Polycyclic Aromatic Hydrocarbons	0.000	µg/l	
		660	Hydrogen Ion (pH)	7.4	pH unit	
		770	Silver	<0.15	µg Ag/l	

Disclaimers:

Unless otherwise stated, all results are expressed on an as received basis.

Options and Interpretations expressed herein are outside the scope of UKAS accreditation.

out - Analyte subcontracted to an external laboratory

doc - Internally documented method, details available on request

P - result exceeds the maximum PCV as defined in the Water Supply (Water Quality) Regulations 2000 (as amended)

* - denotes non UKAS accredited method

A result of 0 or less denotes none found in volume analysed

The start date of analytical testing and Uncertainty of Measurement are available on request

All analytical quality control associated with these results was satisfactory, details are available on request

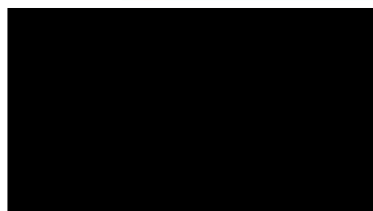


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South East Water Ltd. Registered in England, No.287824. Registered Office: Theobald Road, Bedford, MK4 1NB.

Certificate Number: 260008-1 Final

Task Number:



www.south-east.co.uk

www.south-east.co.uk

Disclaimers:

Unless otherwise stated, all results are expressed on an as received basis.

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

not - Analysis subcontracted to an external laboratory

det - Individually documented method, details available on request

P - result exceeds the maximum PCV as defined in the Water Supply (Water Quality) Regulations 2000 (as amended)

T - denotes use of UKAS accredited method

A result of 0 or a detection were found in volume analysed

The start date of analytical testing and Uncertainty of Measurement are available on request

All analytical quality control associated with these results was satisfactory, details are available on request



0000

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South East Water Ltd, Registered in England, No.2078024, Registered Office: South East Water, Dordans, Oak Hill Way,

South East Water Scientific Services
26-28 Spurl Road
Hinxley Green
Camdenley
Surrey, GU16 6NY
Telephone: 01634 276276
Fax: 01634 276277
E-Mail: sales@southeastwater.co.uk

south east water
scientific services

ANALYTICAL REPORT

Page 1 of 2

Quercus Consulting Limited
Mayhill House
London Road, Addington
West Malling
Kent
ME19 5AN

Certificate Number: 261555-2 Final
Supercodes report 261555-1

Order Number:

Task Number: 2466

Date Received: 14/11/2014

Date Reported: 07/01/2015

Lab Ref.	Sample Details	Method	Test	Result	Units	Flag
1794046	Description: SAMPLE FROM NEW BORDHOLT AT HOGSHAM STATION Sample Type: WATER Received Date: 14-NOV-2014 Sampling Date: 12-NOV-2014	745	Antimony	0.19	µg Sb/l	
		745	Arsenic	0.2	µg As/l	
		745	Selenium	3.777	µg Se/l	
		400	Hydrocarbons	<10.00	µg/l	*
		735	Cadmium	<0.06	µg Cd/l	
		735	Chromium	<0.5	µg Cr/l	
		730	Copper	<0.005	mg Cu/l	
		730	Lead	<0.7	µg Pb/l	
		730	Zinc	<2.5	µg Zn/l	
		750	Thallium	<0.1	µg Tl/l	*
		400	Benzo (a) pyrene	<0.001	µg/l	
		400	Benzo(1,12)perylene	<0.001	µg/l	
		400	Benzo(1,11,12)fluoranthene	<0.001	µg/l	
		400	Benzo(2,3,4)fluoranthene	<0.001	µg/l	
		400	Fluoranthene	<0.003	µg/l	
		400	Indeno(1,2,3-cd)Pyrene	<0.001	µg/l	
		400	Polycyclic Aromatic Hydrocarbons	0.000	µg/l	
		660	Hydrogen Ion (pH)	7.3	pH Unit	
		770	Silver	<0.18	µg Ag/l	
		730	Nickel	3.3	µg Ni/l	

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Optimised and interpreted data presented herein are outside the scope of UKAS accreditation.

ast - Analysis subcontracted to an external laboratory

doc - Individually documented method, details available on request

7 - result exceeds the maximum PCV as defined in the Water Supply (Water Quality) Regulations 2000 (as amended)

* - denotes non UKAS accredited method

A result of 0.00 denotes none found in volume analysed

The start date of analytical testing and Uncertainty of Measurement are available on request

All analytical quality control associated with these results was satisfactory, details are available on request



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Certificate Number:

261555-2-Final
Supersedes report: 261555-1

Task Number:

Richard Brown
Laboratory Manager**Disclaimers:**

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P - result exceeds the maximum PCV as defined in the Water Supply (Water Quality) Regulations 2000 (as amended)

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A result of 0 or a detection were found in volume analysed

The start date of analytical testing and Uncertainty of Measurement are available on request

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South East Water Scientific Services
26-28 Skart Road
Primley Green
Canterbury
Surrey, GU16 6HY
Telephone: 01534 276276
Fax: 01534 276277
E-Mail: sales@south-eastwater.co.uk

south east water
scientific services

ANALYTICAL REPORT

Page 1 of 1

Quercus Consulting Limited
Mayhill House
London Road, Addington
West Malling
Kent
ME19 5AN

Certificate Number: 263320-2 Final
Supersedes report 263320-1

Order Number: H0GHAM012

Task Number: 2466

Date Received: 28/11/2014

Date Reported: 09/01/2015

Lab Ref.	Sample Details	Method	Test	Result	Units	Flag
0796020	Description: NEW BORDVOLT AT H0GHAM STATION Sample Type: WATER Received Date: 26-NOV-2014 Sampling Date: 26-NOV-2014	745	Arsimony	0.19	µg Sb/l	
		745	Arsenic	0.1	µg As/l	
		745	Selenium	3.231	µg Se/l	
		div	Hydrocarbons	<10.00	µg/l	*
		735	Cadmium	<0.08	µg Cd/l	
		735	Chromium	<0.5	µg Cr/l	
		730	Copper	<0.005	mg Cu/l	
		730	Lead	<0.7	µg Pb/l	
		730	Zinc	<2.5	µg Zn/l	
		750	Thallium	0.1	µg Tl/l	*
		730	Silver	<0.18	µg Ag/l	
		730	Nickel	3.1	µg Ni/l	

Richard Brown
Laboratory Manager

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div - Individually documented method, details available on request

P - Result exceeds the maximum PCV as defined in the Water Supply (Water Quality) Regulations 2000 (as amended)

* - denotes non-UKAS accredited method

A result of 0.0 denotes none found in volume analysed

The start date of analytical testing and Uncertainty of Measurement are available on request

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South East Water Scientific Services
 26-28 Sturt Road
 Primley Green
 Camberley
 Surrey, GU16 6HT
 Telephone: 03534 276276
 Fax: 03534 276277
 E-Mail: sales@southeastwater.co.uk

south east water
 scientific services

ANALYTICAL REPORT

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Quercus Consulting Limited
Mayhill House
London Road, Addington
West Malling
Kent
ME19 5AN

Certificate Number: 265381-2 Final
 Supercodes report 265381-1

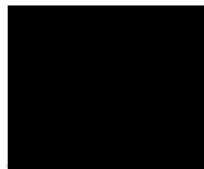
Order Number: HGGHAM013

Task Number: 2466

Date Received: 11/12/2014

Date Reported: 09/01/2015

Lab Ref.	Sample Details	Method	Test	Result	Units	Flag
1104876	Description: NDW BORDHOLE AT HGGHAM STATION Sample Type: WATER Received Date: 11-DEC-2014 Sampling Date: 10-DEC-2014	745	Antimony	0.20	µg Sb/l	
		745	Arsenic	0.3	µg As/l	
		745	Selenium	3.894	µg Se/l	
		doc	Hydrocarbons	<10.00	µg/l	*
		735	Cadmium	<0.06	µg Cd/l	
		735	Chromium	<0.5	µg Cr/l	
		730	Copper	<0.005	mg Cu/l	
		730	Lead	<0.7	µg Pb/l	
		730	Zinc	<2.5	µg Zn/l	
		750	Thallium	<0.1	µg Tl/l	*
		770	Silver	<0.18	µg Ag/l	
		730	Nickel	3.1	µg Ni/l	


 Richard Brown
 Laboratory Manager

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