



Environmental Monitoring Report

Reporting Period
02/08/2010-29/08/2010
Revision1.



Former Bayer Crop Science Site
Hauxton
Cambridgeshire

15th September 2010

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On behalf of:

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1.0 Introduction

1.1. General

This report has been prepared and submitted in accordance Environmental Permitting Regulations 2007 with reference to the approved Deployment of Vertase FLI's Environmental Permit Ref: ERP/QP3293FY for the remediation works at the former Bayer CropScience site Hauxton, and in accordance with Condition 4 of the planning permission dated 5th February 2010.

The time period that this report represents is from the 2nd of August 2010, until the 29th of August 2010.

1.2. The site

The site is the former Bayer Crop Science site, Cambridge Road, Hauxton, Cambridge. The site was used for the storage and production of agrichemicals from the 1940's through to ceasing production in 2004. The site was used primarily for the synthesis, formulation, packaging and storage of agrichemicals (both herbicides and pesticides). It is this former historical use that has led to the contamination legacy of soil and groundwater at the site.

There is also a Waste Water Treatment Plant (WWTP) and other agricultural land which is part of the former land holding of Bayer Crop Science and is part of that controlled by Harrow Estates. The WWTP will be utilised to assist in the treatment of recovered groundwater and will be improved to undertake this task and then maintained for the duration of the remediation. This area of the site will not be subject to remediation as part of this phase of works but will be remediated as a separate phase of work under a separate contract and separate Remediation Method Statement in the future.

1.3. Remediation Brief and Philosophy

The philosophy for this remediation project is set out in detail in the agreed Remediation Method Statement. The remediation of the site has been developed from knowledge of the site gained from historical site investigations, Atkins Preliminary Conceptual Model Report August 2006 (interpretative report defining the current and correct understanding of the geological and

environmental conditions) and subsequent sampling and analysis defining the extent of contamination following further investigation. This information has allowed the conceptual site model and pollutant linkages to be developed to form the remediation methodology. Whilst the remediation work itself is complex and varied, the philosophy is simple and defines the proposed remedial action required. This philosophy has been designed with the brief in mind. This brief can be defined as “a remediation to address all pollutant linkages and ensure that following remediation and re-development no unacceptable risks will remain associated with the treated area of the site by applying the best available techniques not entailing excessive costs (BATNEEC)”.

The philosophy behind the remediation is to remove all uncertainty relating to soils and groundwater within the site area by the excavation, characterisation and treatment. All pathways between the identified sources and receptors will be removed and the contaminant mass within soils reduced as far as the practical limits of cost effective technology permit. The Remediation Method Statement sets out how this philosophy or strategy will be achieved practically on site and validated with confirmative post remediation risk assessment.

These remediation works are also required to satisfy the regulators that adequate remediation works have been completed to satisfy their requirements under Part IIa of the Environmental Protection Act 1990.

2.0 Monthly Progress

Week 21. Week Commencing 2nd August 2010

Concrete slab and foundations were removed from grid squares J11 to J13 (Drawing D907-07 Appendix A), this material was stockpiled on site and is to be crushed at a later date. Excavation of contaminated soils continued in grid squares K12, K13 and J11 through to and including J13, contaminated materials hauled to treatment area, formed into treatment beds and covered to prevent odour migration. The main excavation through grid squares K12 and K13 comprised of sands and gravels, and Gault Clay, moving the row J saw the re-emergence of the West Melbury Marl Formation and a reduction in sands and gravel deposits. Eight partially treated non-odorous treatment beds were relocated towards the boundary of the site to free up space within the central parts of the site adjacent to the excavation, to place more recently excavated and heavily impacted soils, which assisted greatly in reducing the odour impact beyond the site boundary. Spent mushroom compost has been added to a number of heavily contaminated treatment beds to aid the biological treatment processes. The force ventilation and vapour extraction treatment was trialled and commissioned during the first week of August 2010.

Week 22. Week Commencing 9th August 2010

The main excavation continued through grid square J12, J13 and into J14, contaminated materials hauled to treatment area, formed into treatment beds and covered to prevent odour migration. Four of the partially treated non-odorous treatment beds were relocated towards the boundary of the site to free up space within the central parts of the site adjacent to the excavation, to place more recently excavated and heavily impacted soils, which assisted greatly in reducing the odour impact beyond the site boundary.

Week 23. Week Commencing 16th August 2010

The excavation activity focussed on completing grid square J14 only, due to the predominant wind direction being towards the residential areas to the south east and south of the site, works mainly consisted of breaking out concrete slab, a relatively odourless site activity. This was undertaken in grid squares I14, I15, H14 and H15, this material was stockpiled on site and is to be crushed at a later date.

Week 24. Week Commencing 23rd August 2010

The broken concrete stockpile was moved slightly and an area prepared adjacent to the stockpile for the crushing plant. Trial pits were excavated in grid squares I14, I15, H14 and H15 and characterisation samples were taken. During the trial pitting exercise there were no readings recorded by the PID and odours generated during the exercise were very low. The decision was made to progress the excavation through these grid squares as there was very little risk that significant odours and VOCs would be generated by the excavation of these grid squares. This excavation had to be halted on the 26th of August due to a heavy rain event, excavation of this area recommenced following the August bank holiday.

3.0 Environmental Monitoring Summary

The environmental monitoring locations detailed in the Environmental Permit deployment form for the site are highlighted in drawing D907_33C in Appendix A.

The detailed environmental monitoring data can be found in Appendix B, the following chapters summarise the findings from the monitoring undertaken by Vertase FLI Site Engineers.

3.1 Odour and VOC Emissions

Odour and VOC monitoring around the site boundary commenced on the 22nd March 2010 and has been undertaken twice daily at eight compass points around the site boundary, in the public access areas. Odour and VOC related observations in between the eight compass points around the site are also noted by the Vertase FLI representative undertaking the monitoring.

In addition to physical control via covers and management of activities odour controlling suppressants and masking agent are being used around the site boundary to mitigate the impact of odour migration off site. Initially two mobile telescopic misting fans were used on site and a full boundary misting system was also erected to supplement the mobile units, along with the addition of two further mobile units to focus specifically on the excavation. The odour controlling solutions used in the misting and telescopic fan systems vary in fragrance from lemon, to melon, to pine, to bubblegum.

Site generated odours including those from the remediation processes and the odour suppression systems observed during the monitoring rounds beyond the site boundary are listed in the environmental monitoring data spreadsheet in Appendix B.

The Vertase FLI Environmental Engineers and Site Management team have been working closely to prevent odours and VOC's generated by the remediation processes migrating off site, along with trying to achieve a fine balance of using a variety of odour control fragrance's at a variety of dilutions to reduce the impact of any odours detected off site.

The Environmental Engineers have logged the actions undertaken on site to reduce the impact of VOC/odours off site, these are noted in the environmental monitoring data in Appendix B. All

mitigation measures have been in accordance with the actions stipulated in the deployment form, including some additional actions to reduce the potential of odour nuisance e.g. repositioning of mobile odour control systems.

During the twice daily environmental monitoring a Photoionisation Detector (PID) has been used to record VOC's present beyond the site boundary. During the reported period VOC's, were detected by the PID (Limit of detection of 0.1ppm) on the following occasions:

- 06/08/2010 (16:00) At the northwest monitoring location a maximum intermittent PID reading of 3.5ppm was recorded, the odour was described as a faint to weak paint and TCE odour. The excavation in grid square J13 was ceased and materials covered.
- 09/08/2010 (12:05) At the west monitoring location a maximum intermittent value of 0.3ppm was recorded using a PID. The odour at these locations was described as a weak to moderate TCE odour, the excavation continued with the boundary condition being closely monitored for an increase in VOC concentration.
- 13/08/2010 (09:56) Between the northeast and northeast1 monitoring locations a maximum PID value of 0.0ppm was recorded the odour was described as a faint Phenol /general site odour. The processing of that particular treatment bed was halted as to not cause odours and VOC's to migrate beyond the site boundary.

All PID reading above 1ppm recorded beyond the site boundary are reported to the Environment Agency immediately, along with details of the additional mitigation methods being implemented to reduce the migration of VOC's from the site.

Long term passive VOC monitoring is carried out at eight compass point locations around the site boundary, in the public accessible areas, further monitoring locations are located within the centre of the waste water treatment works, on Church Road, Hauxton and Queens Close, Harston.

The results for the long term passive VOC monitoring carried out between 08/07/2010 and 06/08/2010, and to the 03/09/2010 are presented in appendix C. The analysis indicates that the majority of the VOC's detected are around the baseline, except for Toluene and Tetrachloroethylene which continue to be slightly raised above the baseline values but are well below the levels considered to be within acceptable limits for published criteria. During the month of August (06/08/2010-03/09/2010) there has been a significant reduction in the total voc emission from the site, when comparing against the results from the July period (08/07/2010-06/08/2010).

The analysis for Church Road, Hauxton and Queens Close, Harston indicates there are some site related VOC's detected at these locations, but at levels that are considered to be within acceptable limits for published criteria.

The 28 day passive VOC monitoring results have been forwarded to the Health Protection Agency for review. The HPA have under taken independent risk assessment upon the data provided and have provided a positive non technical summary which is available on South Cambridgeshire District Councils website.

3.2. Dust Fibre and Particulate Emission

Both real time dust measurement and long term dust deposition monitoring has been undertaken around the site boundary at six compass point locations, north, east, south, west with two monitoring positions in the northeast (drawing D907_30C, Appendix A).

Real time airborne dust monitoring is undertaken as a minimum twice daily by an Environmental Engineer using a 'Dustmate' dust particle monitor around the site boundary as part of the environmental monitoring schedule, results are recorded in the environmental monitoring spreadsheet (Appendix B). The 'Dustmate' dust particle monitor will not function correctly in wet weather conditions, therefore on occasion data may be missing from the environmental monitoring spreadsheet for this reason. Dust migration is however less likely in wet weather conditions. The 'Dustmate' dust particle monitor did not function correctly on afternoon of the 20th of August 2010.

Dust particle measurements at each monitoring location have varied, with the higher dust readings being generally at the locations adjacent to the heavily trafficked Cambridge Road (A10). The average Total Suspended Particulates (TSP) reading around the site is 114.13 $\mu\text{g}/\text{m}^3$, the average PM10 dust reading around the site is 52.25 $\mu\text{g}/\text{m}^3$. Where a potential for dust has been observed, on site dust suppression methods have been deployed immediately to reduce the generation of site dust and all haul routes are continually wetted to prevent dust release.

Directional dust deposition gauges at the six monitoring locations are analysed every fortnight for Effective Area Coverage (EAC) (percentage of dust deposition relating to the potential to cause nuisance), results generated by an external laboratory are presented in Appendix D.

Baseline dust monitoring undertaken between 19/02/2010 to 19/03/2010 (4 locations monitored) recorded a maximum dust deposition rate of 0.54 %EAC at the western monitoring location.

Dust monitoring undertaken from the 22/07/2010 to 06/08/2010 (6 locations monitored) recorded a maximum dust deposition rate was 1.40 %EAC at the west monitoring location. All other locations had a maximum dust deposition rate of 1.33 %EAC, or less.

Dust monitoring undertaken from the 06/08/2010 to 20/08/2010 (6 locations monitored) recorded a maximum dust deposition rate of 1.14% EAC at the northeast 1 monitoring location. All other locations had a maximum dust deposition rate of 1.07%EAC, or less.

Dust deposition values of less than 2.5% are regarded as having a very low nuisance potential. Only when percentages rise from 2.5% – 5% EAC is dust considered to have a low nuisance causing potential.

During the reported period dust, fibre and particle emissions have been low, and have not caused visual dusting off site.

3.3. Control of Mud and Debris

A pressure washer has been on site constantly to allow any maintenance or plant delivery vehicles leaving contaminated parts of the site to be washed down thoroughly first, as not to

take potentially contaminated mud and debris through the clean zone and off site. The movement of vehicles between the contaminated and clean parts of the site is strictly controlled by the site management team.

3.4. Noise

Noise monitoring around the site boundary commenced on the 22nd March 2010 and has been undertaken twice daily as a minimum, recording findings at eight compass points around the site boundary in the public access areas (drawing D907_30C, Appendix A).

Site operations are restricted to 8am to 6pm and site noise levels are consistently at an average acceptable low background level of 65.58dB. Exceedance's of the 80dB threshold (stipulated in the Environmental Permit deployment document) have been recorded during the monitoring period, however traffic along the A10 has been identified as the source of the slightly elevated noise levels. Data is recorded in the environmental monitoring data spreadsheet, Appendix B.

3.5. Litter

All litter occurrences are removed from within the site, and off site around the boundary fence, and disposed of appropriately. Litter is generally low off site, and is well managed on site, by all site personnel. All recordings of the presence of litter are noted in the Environmental Monitoring Data spreadsheet in Appendix B.

4.0 Surface and Ground Water Condition

4.1. Surface Water Monitoring

As part of the environmental monitoring programme, the Riddy Brook located to the east of the site (Drawing D907_33C, Appendix A) is inspected daily as a minimum at two locations up and down stream for general observations, on any discolouration, sedimentation etc. The observations are recorded on the Environmental Monitoring Data (Appendix B). Throughout the monitoring period there have been no visual signs that the remediation works on site are having any impact on the Riddy Brook.

The water level within the Riddy Brook is monitored and recorded on a daily basis at a minimum of two locations, footbridge adjacent to Mill House (Riddy 1) and the most southerly footbridge over the Riddy Brook, adjacent to the eastern corner of the site (Riddy 4). Two further locations are also monitored, Riddy 2 at the footbridge over the Riddy Brook approximately 150m southeast of Mill House and the former fire exit bridge (Riddy 3), 210m southeast of Mill House. All the water level data is recorded in the main groundwater level data sheet in Appendix E. During the monitoring period there has been very little change in level and flow along the Riddy Brook.

4.2. Surface Water Sampling and Analysis

Upstream and downstream water samples from both the River Cam (Granta) and the Riddy Brook are taken on a monthly basis. The results for samples taken on 26th August 2010 are presented in Appendix F.

The surface water analysis (26th July 2010) shows traces of Tetrachloroethylene (<3 µg/l) in both upstream and downstream Riddy Brook and River Cam samples. Traces of Toluene (<2 µg/l), Mecoprop (<1.6 µg/l), Ethofumesate (<0.8 µg/l) and Simazine (0.14 µg/l) were detected in the downstream samples of both the River Cam and Riddy Brook. These trace levels of have been recorded in the baseline data collected prior to the commencement of the remediation project and are not related .to a specific incident.

4.3. Groundwater Level Monitoring

Groundwater levels are recorded within at least 11 borehole locations onsite on a daily basis, to ensure the groundwater beneath the site remains in a static condition during the remediation works and does not pose a risk to surface and groundwater bodies beyond the site boundary.

During the initial excavation works on site very little groundwater has been encountered, the majority of excavations located in the northern parts of the site have exceeded a depth of 4m below current ground level and have penetrated the Gault Clay in parts.

The main source of water encountered during excavations has been discontinuous contaminated perched water present in the Made Ground. This water has been captured and treated in the Waste Water Treatment Works associated with the site.

From approximately 2-3m below ground level discontinuous thin sand and gravel bands have also produced some limited quantities of water, which have tended to dry up within 24 hours.

The groundwater levels measured at locations around the site are shown in drawing D907_31E, in appendix A. The groundwater levels are presented in Appendix E.

Groundwater contour plots are drawn up on a weekly basis to interpret the potential movement of the water beneath the site. Contour plots D907_99, D907_100, D907_101 and D907_102 (Appendix G) illustrate the weekly groundwater levels for the reported period.

The four contour plots constructed (Appendix G) illustrate that there have been very few subtle changes in groundwater levels during the monitoring period.

There has been no recharge of groundwater in the central and northern part of the site where the main excavations have taken place, the base of excavations on site are approximately at 10.00mAOD and remain free of groundwater. There has not been any change to the pumping regime in this part of the site during the monitoring period.

4.4. Groundwater Sampling and Analysis

Groundwater samples from 11 monitoring locations on site are taken on a monthly basis. The results for samples taken on 26th of August 2010 are pending and will be presented in Appendix F.

The contaminant concentrations present in the samples taken on the 26th of August are very similar to the baseline data collected during the summer of 2008, illustrating that there has been very little change to the groundwater's condition since 2008.

5.0 Waste Water Treatment Plant

The Waste Water Treatment Plant (WWTP) is part of the former land holding of Bayer Cropscience and is part of that controlled by Harrow Estates. The WWTP was an integral part of the former Bayer Crop Science site, located to the west of the A10, specifically designed to treat and discharge liquid waste products derived from the production of agrochemicals (both herbicides and pesticides) and sewage from the facility.

The WWTP has been previously operated (until the 15th of March 2010) by Alpheus Environmental Ltd. to maintain the required discharge volume generated by the groundwater pumping systems on the main Bayer Cropscience site along the bentonite cut off wall and the high bay warehouse.

Vertase FLI have established a maintenance programme and control procedures to ensure the WWTP is operated within the constraints of the discharge consent. Essential system checks and improvements have been made to the plant to ensure it can treat the volume and concentrations of influent generated by the continued groundwater control and the contaminated water recovered during the remediation activities on the main site.

The composition of the water discharged to the River Cam (Granta) must not exceed the permitted levels in paragraphs 1.7.1, 1.8.1 and 1.8.2 of the discharge consent PR1NF/1744D01 Issued and regulated by the Environment Agency.

The treated effluent is sampled at the specified location as stipulated in the discharge consent. Vertase FLI also sample the influent to the WWTP, along with a sample taken after the primary carbon treatment, this is to assess the performance of main treatment process of the WWTP and highlight potential expiry of the primary carbon vessels.

The fortnightly samples are analytically tested for the water quality parameters and the chemical compounds specified in paragraph 1.7.1 of the discharge consent PR1NF/1744 D 01. The data is tabulated and presented in Appendix H along with the raw data from the laboratory reports.

Throughout the reporting period the WWTP has been successful in treating the compounds listed within paragraph 1.7.1 (consent PR1NF/1744D01) to acceptable levels for discharge to the River Cam (Granta) under the regulated discharge consent.

The Environment Agency carry out independent discharge monitoring at the WWTP on a monthly basis, during the reportable period Vertase FLI and Harrow Estates Plc have not been notified of any unacceptable effluent discharging to the River Cam (Granta) from the operating plant.

6.0 Contaminants Not Previously Identified

To fulfil the requirements of condition 4 and condition 9, Planning Condition Document ref:S/2307/06/f Issued 10/02/2010, Vertase FLI are continually undertaking soil characterisation sampling prior to remediation processes to identify the types and concentrations of contaminants present in the specific grid squares across the entire site.

The soil characterisation samples undergo a series of laboratory analyses consisting of targeted analysis, screening against known contaminants and a full GCMS scan to identify any contaminants not previously identified.

All characterisation samples analysed and found to contain previously unidentified contaminants are reported in accordance with condition 9 of the Planning Condition Document ref:S/2307/06/f Issued 10/02/2010.

From the commencement of site works (15/03/2010) to 30/08/2010, thirty eight characterisation samples have been taken by Vertase FLI in partnership with Atkins to assess the contamination type and concentrations prior to remediation of the materials. Twenty two characterisation samples analysed contained a total of seventeen compounds / potential contaminants that had not been previously identified.

A summary table of the soil characterisation testing is presented in Appendix I, the previously unidentified compounds are listed here, with comments regarding the origin and likely usage on site.

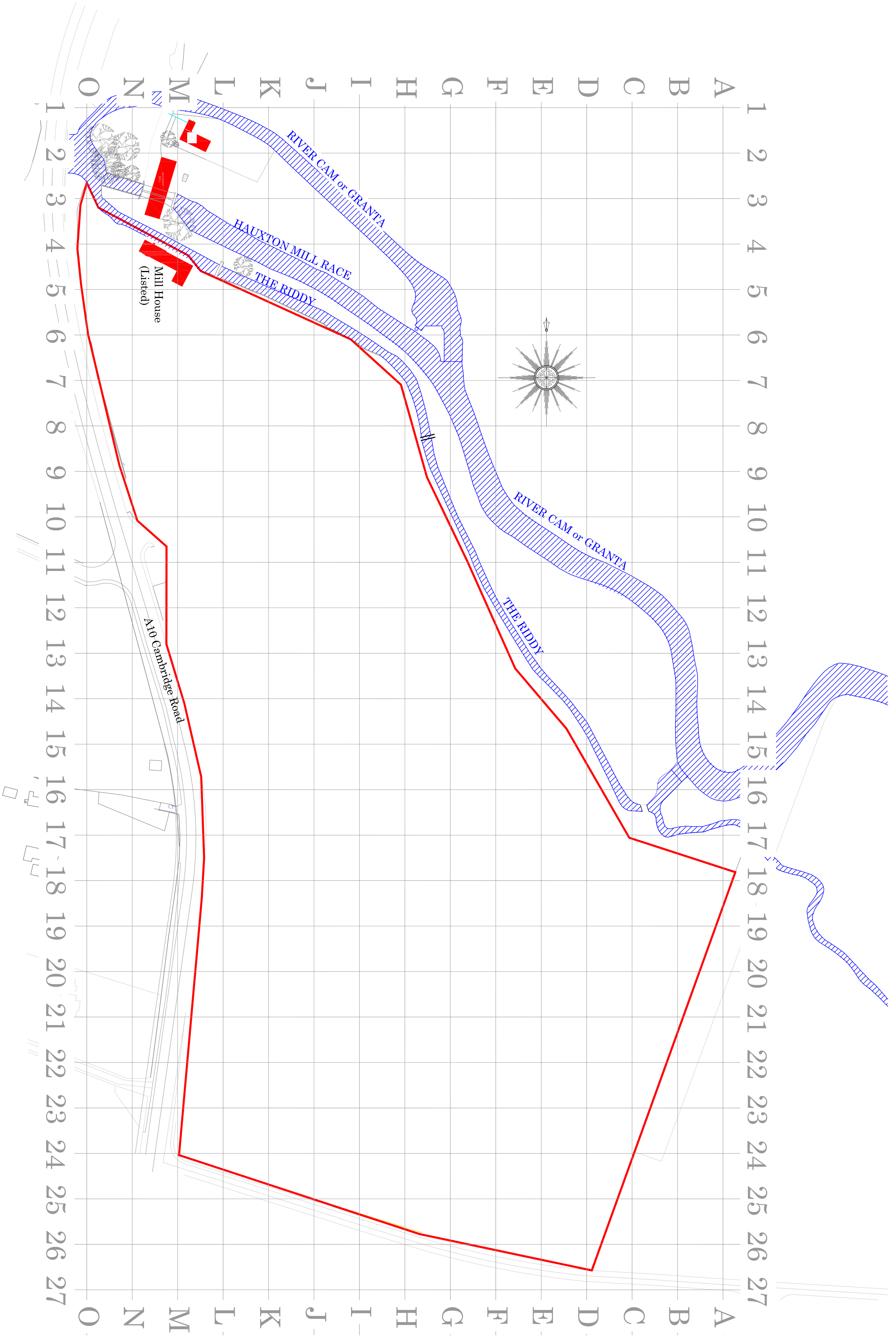
The remediation project consultants Atkins continuously review the soil characterisation analysis and report previously unidentified contaminants in accordance with condition 9, Planning Condition Document ref:S/2307/06/f Issued 10/02/2010.

Appendix A

Drawings

Legend

- Buildings to Remain
 - Water Course
 - Site Boundary
- Drawing Base : Ref
LW/HAUX-002/2006



Rev.	Description	Revised By	Date
1	FIRST ISSUE		21 April 2008

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Site Address:
Bayer Site
Hauxton
Cambridge

Client: Harrow Estates

Title: Blank Site Plan with Grid

Drawn: JWH
Checked: MA
Dwg: 0907_07


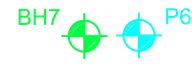



Rev:

Approved: MA

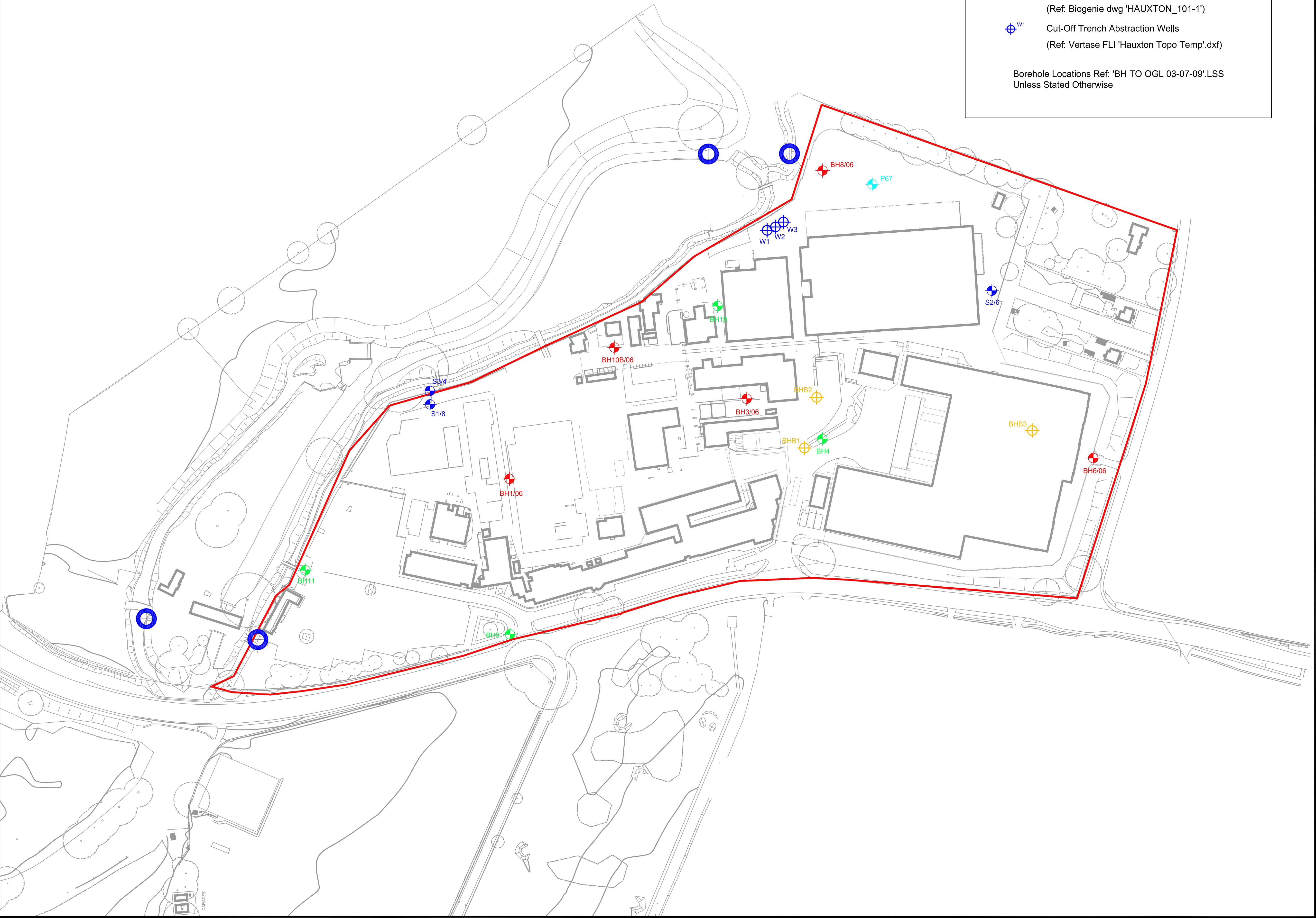
Contact: 907884

Scale: 1:1000

Legend

-  BH1/06 Atkins Exploratory Hole Location
-  BH7, P67 Previous Borehole Location
-  Water Sampling Location
-  BHB1 Biogenie Boreholes
(Ref: Biogenie dwg 'HAUXTON_101-1')
-  W1 Cut-Off Trench Abstraction Wells
(Ref: Vertase FLI 'Hauxton Topo Temp'.dxf)

Borehole Locations Ref: 'BH TO OGL 03-07-09'.LSS
Unless Stated Otherwise



E	BHB1,BHB2,BHB3, W1,W2,W3,BH3-06 & BH08-06 Added (BH3-06 & BH08-06 Ref:D907_31 Iss 0)	MRG	17-08-09
D	BH1 Removed & BH19 Added	MRG	07-07-08
C	BH1 Added	JWH	11 June 2008
B	BH5/06 Erased S2/6 Added	JWH	09 June 2008
A	Boreholes Erased	JWH	14 May 2008
	FIRST ISSUE		23 April 2008

Rev.	Description	Revised By	Date
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Site Address: Bayer Site Hauxton Cambridge	Rev: E
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Title: Retained Boreholes for Monitoring & Reference

Client: Harrow Estates

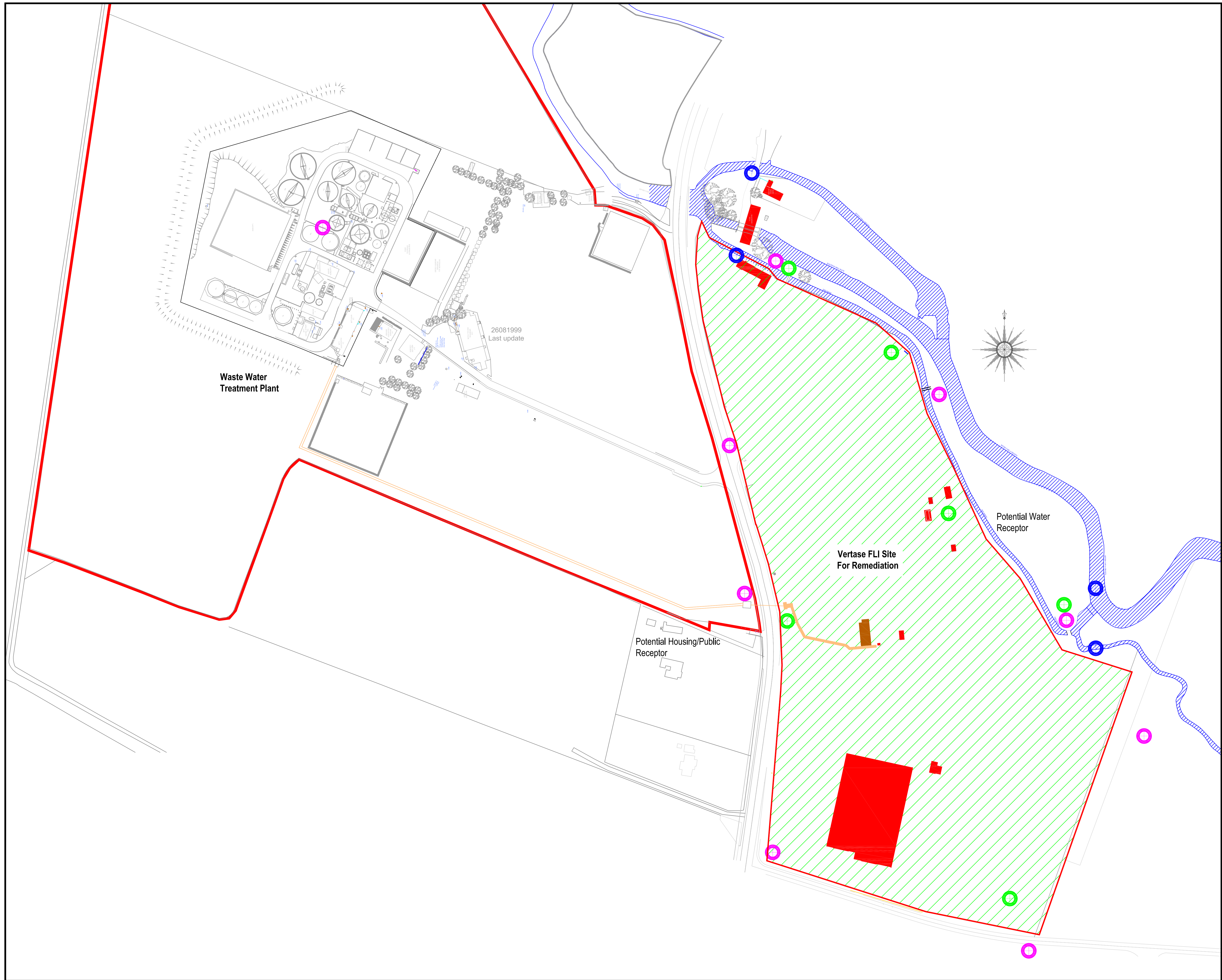
Drawn: JWH	Checked: MA	Approved: MA
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Dwg: D907_31	Contract: 907BRI	Scale: 1:1000
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Legend

- Sub-Station/Buildings to Remain
- Water Course
- Vertase FLI Site for Remediation
- Mobile Treatment Licence Boundary
- Site Effluent Sump and Ducting
- Diffusion Tubes /Monitoring Location
- Dust Monitoring Location
- Water Sampling Location

Drawing Base : Ref LW/HAUX-002/2006



C	Dust Monitoring Locations Amended	MRG	14 July 08
B	Dust Monitoring Location Amended	JWH	09 June 08
A	Water Sampling Points Added Treatment Building Amended FIRST ISSUE	JWH	15 May 2008 21 April 2008

Rev.	Description	Revised By	Date
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Site Address: Bayer Site, Hauxton, Cambridge

Rev: C

Title: Environmental Monitoring Plan

Client: Harrow Estates

Drawn: JWH	Checked: MA	Approved: MA
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Dwg: D907_33	Contract: 907BRI	Scale: 1:1250
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Appendix B

Environmental Monitoring Data

ID	Date	Activity	Location	Time	Wind	Temp	Humidity	Pressure	Visibility	Clouds	Soil	Water	Vegetation	Other	Notes	
H1106201	11/06/201	breaking concrete, forming beds, turning beds, screening concrete	W	9:42	9:47	2	vegetation	0	2	1	0	245.5	35.9	84	no	
H1106201	11/06/201	breaking concrete, forming beds, turning beds, screening concrete	SW	9:38	9:41	2	vegetation	0	4	0	0	166	36	79	no	
H1106201	11/06/201	breaking concrete, forming beds, turning beds, screening concrete	W	9:39	9:39	3	vegetation	0	1	0	112.3	44.2	79	no		
H1106201	11/06/201	breaking concrete, forming beds, turning beds, screening concrete	NW	10:16	10:25	2	exhaust fumes and vegetation	0	2	1	1	1	1	1	no	
H1106201	11/06/201	breaking concrete, screening concrete, turning beds, turning beds	NE	16:02	16:07	1	vegetation	0	2	1	0	14.1	1.9	85	no	slight
H1106201	11/06/201	breaking concrete, screening concrete, turning beds, turning beds	NE	15:58	16:01	1	odour control	0	2	0	0	155.5	33.2	74	no	at
H1106201	11/06/201	breaking concrete, screening concrete, turning beds, turning beds	NET	15:50	15:50	1	vegetation	0	2	0	0	213.4	187.9	81	no	slight
H1106201	11/06/201	breaking concrete, screening concrete, turning beds, turning beds	SE	15:45	15:46	4	mushroom compost & odour control	1	2	0	0	220.7	25.3	81	no	slight
H1106201	11/06/201	breaking concrete, screening concrete, turning beds, turning beds	SE	15:38	15:43	1	concrete dust	1	2	0	0	0	0	82	no	slight
H1106201	11/06/201	breaking concrete, screening concrete, turning beds, turning beds	E	15:33	15:37	1	vegetation	0	1	0	0	16.1	8.8	82	no	slight
H1106201	11/06/201	breaking concrete, screening concrete, turning beds, turning beds	SW	15:29	15:33	1	vegetation	0	1	0	0	15.2	15.7	82	no	slight
H1106201	11/06/201	breaking concrete, screening concrete, turning beds, turning beds	W	15:26	15:31	1	vegetation	0	1	0	0	205.3	89.1	75	no	slight
H1106201	11/06/201	breaking concrete, screening concrete, turning beds, turning beds	NW	15:22	15:27	1	vegetation	0	1	0	0	156.6	84.2	79	no	slight
H1106201	11/06/201	breaking concrete, turning beds, turning beds	NE	14:22	14:27	1	vegetation	0	2	1	0	111.6	24.9	84	no	slight
H1106201	11/06/201	breaking concrete, turning beds, turning beds	NE	13:56	14:17	1	odour control	0	2	0	0	106	36	86	no	slight
H1106201	11/06/201	breaking concrete, turning beds, turning beds	NET	9:30	9:30	1	general site odour	0	2	0	0	142.4	138.4	81	no	slight
H1106201	11/06/201	breaking concrete, turning beds, turning beds	E	9:24	9:29	1	general site odour	0	2	0	0	185.4	24	81	no	slight
H1106201	11/06/201	breaking concrete, turning beds, turning beds	SE	9:18	9:23	2	concrete and vegetation	0	0	3	0	0	0	85	no	slight
H1106201	11/06/201	breaking concrete, turning beds, turning beds	E	9:13	9:17	1	vegetation	0	1	0	0	22.3	17.2	84	no	slight
H1106201	11/06/201	breaking concrete, turning beds, turning beds	SW	9:08	9:11	2	vegetation	0	1	0	0	0	0	85	no	slight
H1106201	11/06/201	breaking concrete, turning beds, turning beds	W	9:05	9:08	4	vegetation	0	1	0	0	85.8	80.7	76	no	slight
H1106201	11/06/201	breaking concrete, turning beds, turning beds	NW	9:05	9:08	1	vegetation	0	1	0	0	119.9	27.3	85	no	slight
H1106201	11/06/201	breaking concrete, turning beds, turning beds	NE	17:22	17:27	1	top type	0	2	0	0	29.4	21.7	85	no	slight
H1106201	11/06/201	breaking concrete, turning beds, turning beds	NE	17:16	17:21	1	odour control and vegetation	1	2	0	0	74.2	87.3	86	no	slight
H1106201	11/06/201	breaking concrete, turning beds, turning beds	NET	17:10	17:13	1	vegetation	0	2	0	0	20.8	20.2	85	no	slight
H1106201	11/06/201	breaking concrete, turning beds, turning beds	E	17:04	17:09	4	odour control	1	2	0	0	14	19.3	89	no	slight
H1106201	11/06/201	breaking concrete, turning beds, turning beds	SE	16:58	17:03	3	concrete dust, odour control and vegetation	0	2	4	0	0	0	88	no	slight
H1106201	11/06/201	breaking concrete, turning beds, turning beds	E	16:52	16:57	2	vegetation	0	1	0	0	119	26.2	85	no	slight
H1106201	11/06/201	breaking concrete, turning beds, turning beds	SW	16:48	16:51	1	vegetation	0	1	0	0	0	0	74	no	slight
H1106201	11/06/201	breaking concrete, turning beds, turning beds	W	16:44	16:48	1	vegetation	0	1	0	0	47.7	4	78	no	slight
H1106201	11/06/201	breaking concrete, turning beds, turning beds	W	17:28	17:32	1	odour control	0	1	0	0	0	0	79	no	slight
H1106201	11/06/201	breaking concrete, turning beds, turning beds	N	10:02	10:07	2	vegetation	0	2	1	0	30.2	22	83	no	slight
H1106201	11/06/201	breaking concrete, turning beds, turning beds	NE	9:56	10:01	1	CHNIC and general site odour	1	2	0	0	45.6	38.9	84	no	slight
H1106201	11/06/201	breaking concrete, turning beds, turning beds	NE	9:52	9:52	1	vegetation	0	1	0	0	11.1	8	85	no	slight
H1106201	11/06/201	breaking concrete, turning beds, turning beds	E	9:44	9:49	5	odour control	1	2	0	0	170.4	17.6	81	no	slight
H1106201	11/06/201	breaking concrete, turning beds, turning beds	SE	9:38	9:43	1	general site odour	0	1	0	0	0	0	85	no	slight
H1106201	11/06/201	breaking concrete, turning beds, turning beds	E	9:32	9:37	2	vegetation and general site odour	0	2	0	0	80.6	28.3	85	no	slight
H1106201	11/06/201	breaking concrete, turning beds, turning beds	NE	9:26	9:31	1	vegetation	0	1	0	0	0	0	73	no	slight
H1106201	11/06/201	breaking concrete, turning beds, turning beds	SE	9:20	9:25	1	vegetation and odour control	0	1	0	0	15.9	14.6	78	no	slight
H1106201	11/06/201	breaking concrete, turning beds, turning beds	NW	10:08	10:13	3	exhaust fumes and vegetation	0	1	0	0	0	0	78	no	slight
H1106201	11/06/201	breaking concrete, turning beds, turning beds	N	12:15	12:17	1	vegetation	0	1	0	0	36.1	22.8	83	no	slight
H1106201	11/06/201	breaking concrete, turning beds, turning beds	NE	17:08	17:11	3	general site odour	1	0	0	0	110.3	88.7	83	no	slight
H1106201	11/06/201	breaking concrete, turning beds, turning beds	NET	17:02	17:05	1	vegetation	0	1	0	0	0	0	81	no	slight
H1106201	11/06/201	breaking concrete, turning beds, turning beds	E	16:54	16:59	4	odour control	1	2	0	0	83.1	37.9	80	no	slight
H1106201	11/06/201	breaking concrete, turning beds, turning beds	SE	16:48	16:53	2	general site odour	0	2	0	0	0	0	85	no	slight
H1106201	11/06/201	breaking concrete, turning beds, turning beds	SE	16:42	16:47	2	general site odour	0	2	0	0	10.1	8.3	85	no	slight
H1106201	11/06/201	breaking concrete, turning beds, turning beds	W	16:36	16:41	2	vegetation	0	1	0	0	0	0	74	no	slight
H1106201	11/06/201	breaking concrete, turning beds, turning beds	W	16:30	16:35	2	vegetation	0	1	0	0	37	81	79	no	slight
H1106201	11/06/201	breaking concrete, turning beds, turning beds	NW	17:18	17:23	2	vegetation	0	2	0	0	0	0	85	no	slight
Stephenson	16/06/201	breaking out concrete, turning treatment beds	N	11:44	11:48	1	vegetation	0	1	0	0	113.4	84.8	80.8	no	slight
Stephenson	16/06/201	breaking out concrete, turning treatment beds	NE	9:58	10:03	1	no odour	0	1	0	0	108	111	83.3	no	slight
Stephenson	16/06/201	breaking out concrete, turning treatment beds	NE	9:52	10:00	1	no odour	0	1	0	0	101.9	93.2	80.8	no	slight
Stephenson	16/06/201	breaking out concrete, turning treatment beds	E	9:46	9:50	3	natural vegetation	0	2	1	0	25.1	26.8	82.2	no	slight
Stephenson	16/06/201	breaking out concrete, turning treatment beds	E	9:38	9:43	1	line odour	0	1	0	0	41.6	16.8	80.4	no	slight
Stephenson	16/06/201	breaking out concrete, turning treatment beds	E	9:32	9:37	1	line odour, vegetation	0	1	0	0	41.6	16.8	80.4	no	slight
Stephenson	16/06/201	breaking out concrete, turning treatment beds	SW	9:24	9:29	2	turners beds, odour control	0	1	0	0	25.3	24.4	84.0	no	slight
Stephenson	16/06/201	breaking out concrete, turning treatment beds	W	9:17	9:22	1	vegetation	0	1	0	0	10.3	74.4	84.0	no	slight
Stephenson	16/06/201	breaking out concrete, turning treatment beds	NW	10:12	10:17	1	vegetation	0	1	0	0	25.6	17.9	85	no	slight
H1106201	16/06/201	breaking out concrete, turning treatment beds	NE	17:12	17:17	1	vegetation	0	1	0	0	10.3	10.3	85	no	slight
H1106201	16/06/201	breaking out concrete, turning treatment beds	NE	17:06	17:11	2	vegetation	0	1	0	0	221.6	133	81	no	slight
H1106201	16/06/201	breaking out concrete, turning treatment beds	NE	16:58	17:03	1	vegetation	0	1	0	0	106.8	106.8	81	no	slight
H1106201	16/06/201	breaking out concrete, turning treatment beds	E	16:54	16:59	2	odour control and vegetation	0	2	0	0	8.3	2.9	88	no	slight
H1106201	16/06/201	breaking out concrete, turning treatment beds	SE	16:48	16:53	1	mushroom compost & odour control	0	2	0	0	0	0	84	no	slight
H1106201	16/06/201	breaking out concrete, turning treatment beds	SE	16:42	16:47	1	vegetation	0	1	0	0	13.6	5.1	84	no	slight
H1106201	16/06/201	breaking out concrete, turning treatment beds	SE	16:36	16:41	2	vegetation	0	1	0	0	0	0	74	no	slight
H1106201	16/06/201	breaking out concrete, turning treatment beds	W	16:30	16:35	1	vegetation	0	1	0	0	30.9	10.3	78	no	slight
H1106201	16/06/201	breaking out concrete, turning treatment beds	NW	17:18	17:23	1	exhaust fumes	1	0	0	0	0	0	79	no	slight
Walker	17/06/201	excavating, breaking concrete, turning beds	W	8:58	9:03	1	no odour	0	1	0	0	201	44	81.4	no	slight
Walker	17/06/201	excavating, breaking concrete, turning beds	W	8:52	8:58	1	no odour	0	1	0	0	227	87	79	no	slight
Walker	17/06/201	excavating, breaking concrete, turning beds	NE	8:46	8:51	1	no odour	0	1	0	0	183	109	81.4	no	slight
Walker	17/06/201	excavating, breaking concrete, turning beds	SE	8:40	8:45	1	no odour	0	1	0	0	201	97	81.4	no	slight
Walker	17/06/201	excavating, breaking concrete, turning beds	E	8:34	8:39	1	no odour	0	1	0	0	201	97	81.4	no	slight
Walker	17/06/201	excavating, breaking concrete, turning beds	SW	8:28	8:33	1	no odour	0	1	0	0	176	34	76.9	no	slight
Walker	17/06/201	excavating, breaking concrete, turning beds	W	8:22	8:27	1	no odour	0	1	0	0	176	34	77.4	no	slight
Walker	17/06/201	excavating, breaking concrete, turning beds	NW	8:09	8:14	1	PCE/hydrocarbons	1	1	0	0	0	0	45.3	no	slight
Stephenson	17/06/201	moving treatment beds	N	11:45	11:50	4	blocked drains	2								

Appendix C

Long term Passive VOC Monitoring

LABORATORY ANALYSIS REPORT

REPORT NUMBER GCMS4409
CUSTOMER Vertase FLI Ltd
GRADKO LAB REFERENCE GMSE 1539-1548
DATE SAMPLES RECEIVED 10.08.10
DESPATCH REF.NUMBER SOR004443
BOOKING IN REF. D 4181
JOB NUMBER 907BRI/4041

**SEMI-QUANTITATIVE ANALYSIS FOR
TOP 10 VOC'S ON TENAX DIFFUSION TUBES BY GC/MS**

Analysis has been carried out in accordance with in-house method GLM 13

Tube Number GRA 05100
Exposure Time(mins) 41460
Sample ID North East

Top 10 VOC'S

Compounds	ng on tube	ppb in air*
Tetrachloroethylene	1751.62	21.72
Toluene	1322.90	16.41
p-Xylene	160.75	1.99
Benzene, 1,2-dichloro-3-methyl-	108.31	1.34
Benzene, 1,2,4-trichloro-3-methyl-	97.77	1.21
Bis(2-chloroethyl) ether	82.94	1.03
Benzene, 1,4-dichloro-	51.83	0.64
Benzene, 1-chloro-2-methyl-	49.21	0.61
Benzene, 1,2,4-trichloro-3-methyl-	43.69	0.54
o-Xylene	42.05	0.52

Tube Number GRA 06009
Exposure Time(mins) 41419.2
Sample ID East

Top 10 VOC'S

Compounds	ng on tube	ppb in air*
Tetrachloroethylene	2927.76	36.31
Toluene	2074.72	25.73

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L. Gates, Laboratory Supervisor

LABORATORY ANALYSIS REPORT

p-Xylene	164.89	2.04
Benzene, 1,2-dichloro-3-methyl-	119.95	1.49
Benzene, 1,2,4-trichloro-3-methyl-	114.01	1.41
Benzene, 1-chloro-2-methyl-	71.23	0.88
Benzene, 1,4-dichloro-	68.84	0.85
Benzene, 1,2,4-trimethyl-	58.24	0.72
o-Xylene	53.79	0.67
Benzene, 1,2,3-trichloro-	51.70	0.64

Tube Number GRA 05909
Exposure Time(mins) 41410.8
Sample ID South East

Top 10 VOC'S

Compounds	ng on tube	ppb in air*
Tetrachloroethylene	793.30	9.84
Toluene	563.25	6.98
Benzene, 1,4-dichloro-	70.92	0.88
p-Xylene	56.05	0.70
Benzene, 1,4-dichloro-2-methyl-	48.04	0.60
Benzene, 1,2,4-trichloro-3-methyl-	38.91	0.48
o-Xylene	24.44	0.30
Benzene	20.65	0.26
Benzene, 1,2,3-trichloro-4-methyl-	17.31	0.21
Benzene, 1-chloro-2-methyl-	15.64	0.19

Tube Number GRA 04219
Exposure Time(mins) 41482.8
Sample ID South

Top 10 VOC'S

Compounds	ng on tube	ppb in air*
Tetrachloroethylene	148.57	1.84
Toluene	143.03	1.77
Benzene	24.82	0.31
p-Xylene	14.91	0.18

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L. Gates, Laboratory Supervisor

LABORATORY ANALYSIS REPORT

Benzene, 1,2-dichloro-	14.43	0.18
Phenol	12.71	0.16
Benzene, 1,4-dichloro-2-methyl-	9.45	0.12
o-Xylene	8.87	0.11
Benzene, 1,2,4-trimethyl-	8.66	0.11
Butylated Hydroxytoluene	6.97	0.09

Tube Number GRA 03629
Exposure Time(mins) 41482.8
Sample ID South West

Top 10 VOC'S

Compounds	ng on tube	ppb in air*
Tetrachloroethylene	266.75	3.31
Toluene	223.57	2.77
Benzene, 1,3-dichloro-5-methyl-	55.80	0.69
p-Xylene	28.88	0.36
Benzene	25.17	0.31
Benzene, 1,2,4-trichloro-3-methyl-	18.31	0.23
Benzene, 1,2-dichloro-3-methyl-	16.69	0.21
o-Xylene	15.03	0.19
Benzene, 1,4-dichloro-	13.95	0.17
Benzene, 1,2-dichloro-3-methyl-	11.95	0.15

Tube Number GRA 02673
Exposure Time(mins) 401434.8
Sample ID West

Top 10 VOC'S

Compounds	ng on tube	ppb in air*
Toluene	292.11	3.62
Tetrachloroethylene	265.56	3.29
p-Xylene	34.76	0.43
Benzene, 1,3-dichloro-5-methyl-	23.65	0.29
Benzene	22.79	0.28
Phenol	16.75	0.21

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LABORATORY ANALYSIS REPORT

Benzene, 1,2,4-trichloro-3-methyl-	14.22	0.18
o-Xylene	13.31	0.17
Benzene, 1,4-dichloro-	11.23	0.14
Benzene, 1,3,5-trimethyl-	8.58	0.11

Tube Number GRA 05705
Exposure Time(mins) 41416.2
Sample ID North West

Top 10 VOC'S

Compounds	ng on tube	ppb in air*
Tetrachloroethylene	427.66	5.30
Toluene	355.03	4.40
p-Xylene	40.72	0.50
Benzene	29.77	0.37
Benzene, 1,3-dichloro-5-methyl-	21.67	0.27
Benzene, 1,2,4-trichloro-3-methyl-	19.18	0.24
Benzene, 1,4-dichloro-	16.40	0.20
Phenol	14.90	0.18
o-Xylene	12.40	0.15
Benzene, 1,2,4-trimethyl-	10.00	0.12

Tube Number GRA 02308
Exposure Time(mins) 41434.2
Sample ID WWTW

Top 10 VOC'S

Compounds	ng on tube	ppb in air*
Eicosane	47.58	0.59
Tetrachloroethylene	47.40	0.59
Toluene	46.55	0.58
Benzene	21.73	0.27
Phenol	10.83	0.13
p-Xylene	10.54	0.13
o-Xylene	10.16	0.13
Trichloroethylene	9.52	0.12

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LABORATORY ANALYSIS REPORT

Octadecane	14.85	0.18
Benzene, 1,2,4-trimethyl-	4.60	0.06

Tube Number GRA 06041
Exposure Time(mins) 41432.4
Sample ID Church Road

Top 10 VOC'S

Compounds	ng on tube	ppb in air*
Naphthalene	290.61	3.60
Toluene	100.10	1.24
Tetrachloroethylene	80.23	0.99
Naphthalene, 1-methyl-	41.58	0.52
Benzene	25.03	0.31
Naphthalene, 2-methyl-	24.42	0.30
p-Xylene	17.41	0.22
Phenol	13.70	0.17
Naphthalene, 2,6-dimethyl-	13.07	0.16
Naphthalene, 1,6-dimethyl-	11.51	0.14

Tube Number GRA 02226
Exposure Time(mins) 41429.4
Sample ID Queen's Close

Top 10 VOC'S

Compounds	ng on tube	ppb in air*
Toluene	63.76	0.79
Tetrachloroethylene	27.55	0.34
Benzene	21.09	0.26
p-Xylene	18.17	0.23
Phenol	14.33	0.18
Benzene, 1,2,4-trimethyl-	11.95	0.15
o-Xylene	11.71	0.15
Benzoyl bromide	11.08	0.14
Ethylbenzene	7.15	0.09
Undecane	5.38	0.07

The Diffusion Tubes have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures calculations and assessments involving the exposure procedures and periods provided by the client are not within the scope of our UKAS accreditation. Those results obtained using exposure data shall be indicated by an asterisk. Any queries concerning the data in this report should be directed to the Laboratory Manager Gradko International Ltd.

LABORATORY ANALYSIS REPORT

**Comments: Results greater than 1000ng are outside our UKAS accredited calibration range.
Semi-quantitative results are calculated using toluene standards.**

Analysts Signature

Date of Analysis 17.07.10

Analysts Name

Sandra Wilkin

Date of Report 19.07.10

The Diffusion Tubes have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures calculations and assessments involving the exposure procedures and periods provided by the client are not within the scope of our UKAS accreditation. Those results obtained using exposure data shall be indicated by an asterisk. Any queries concerning the data in this report should be directed to the Laboratory Manager Gradko International Ltd.

Form LQF32 Issue 2

Report Number GCMS4409

Page 6 of 6

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LABORATORY ANALYSIS REPORT

REPORT NO. PE6MS0771
CUSTOMER VERTASE FLI
19 Napier Court, Barlborough
Sheffield
S43 4PZ
GRADKO LAB REF PE6E2168-2178
BOOKING REF. NUMBER D 4694
DATE SAMPLES RECEIVED 08.09.10

SEMI- QUANTITATIVE ANALYSIS FOR TOP 10 COMPOUNDS ON TENAX DIFFUSION TUBES BY GCMS
Analysis has been carried out in accordance with in-house method GLM 13

Tube Number GRA 02841
Sample Location North East
Exposure Time (mins) 40588

Top10 Compounds	ng on tube	ppb in air*	µgm-3*
Tetrachloroethylene	555.36	6.84	44.88
Toluene	292.70	3.61	13.27
mp-Xylene	84.84	1.05	4.43
Benzene, 1,2,4-trichloro-3-methyl-	51.81	0.64	4.95
Trichloroethylene	34.80	0.43	2.23
Benzene, 1,2-dichloro-3-methyl-	24.20	0.30	1.91
Ethylbenzene	22.13	0.27	1.16
Benzene, 1,2,3-trichloro-4-methyl-	20.49	0.25	1.96
Benzene, 1,4-dichloro-	20.06	0.25	1.44
Benzene, 1-chloro-2-methyl-	17.62	0.22	1.09

Tube Number GRA 05330
Sample Location East
Exposure Time (mins) 40593

Top10 Compounds	ng on tube	ppb in air*	µgm-3*
Tetrachloroethylene	963.29	11.87	77.84
Toluene	270.15	3.33	12.25
Benzene, 1,2-dichloro-3-methyl-	66.89	0.82	5.27
Benzene, 1,2,4-trichloro-3-methyl-	65.66	0.81	6.28
Benzene, 1,4-dichloro-	61.03	0.75	4.39
mp-Xylene	35.21	0.43	1.84
Benzene, 1,2,3-trichloro-4-methyl-	25.19	0.31	2.41
Benzene, 1,3-dichloro-2-methyl-	19.20	0.24	1.51

The Diffusion Tubes have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures calculations and assessments involving the exposure procedures and periods provided by the client are not within the scope of our UKAS accreditation. Those results obtained using exposure data shall be indicated by an asterisk. Any queries concerning the data in this report should be directed to the Laboratory Manager Gradko International Ltd.

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L. Gates, Laboratory Supervisor

LABORATORY ANALYSIS REPORT

Benzene, 1-chloro-2-methyl-	18.91	0.23	1.17
Benzene, 1,3,5-trichloro-	17.57	0.22	1.56

Tube Number GRA 02818
Sample Location South East
Exposure Time (mins) 40591

Top10 Compounds	ng on tube	ppb in air*	µgm-3*
Tetrachloroethylene	346.78	4.27	28.02
Toluene	173.54	2.14	7.87
mp-Xylene	69.05	0.85	3.61
Ethylbenzene	54.48	0.67	2.85
Benzene, 1,4-dichloro-	53.85	0.66	3.87
Benzene, 1,4-dichloro-3-methyl-	47.17	0.58	3.72
o-Xylene	40.95	0.50	2.14
Benzene, 1,2,4-trichloro-3-methyl-	30.90	0.38	2.95
Hexane	21.19	0.26	0.90
Benzene, 1,3-dichloro-2-methyl-	14.10	0.17	1.11

Tube Number GRA 02692
Sample Location South
Exposure Time (mins) 40589

Top10 Compounds	ng on tube	ppb in air*	µgm-3*
Tetrachloroethylene	76.23	0.94	6.16
Toluene	34.33	0.42	1.56
mp-Xylene	13.46	0.17	0.70
o-Xylene	10.01	0.12	0.52
Benzene	7.33	0.09	0.28
Benzene, 1,2,4-trichloro-3-methyl-	6.19	0.08	0.59
Benzene, 1,2-dichloro-3-methyl-	5.37	0.07	0.42
Benzene, 1,4-dichloro-	4.83	0.06	0.35
Benzene, 1,2,3-trichloro-4-methyl-	4.55	0.06	0.44

9 Compounds Detected

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Gradko International Ltd
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Signed.....*L. Gates*.....
L. Gates, Laboratory Supervisor

LABORATORY ANALYSIS REPORT

Tube Number GRA 03371
Sample Location South West
Exposure Time (mins) 40585

Top10 Compounds

	ng on tube	ppb in air*	µgm-3*
Tetrachloroethylene	161.07	1.98	13.02
Toluene	112.56	1.39	5.10
mp-Xylene	15.30	0.19	0.80
Benzene, 1,2-dichloro-3-methyl-	10.90	0.13	0.86
Benzene, 1,2,4-trichloro-3-methyl-	10.78	0.13	1.03
o-Xylene	9.77	0.12	0.51
Benzene	8.00	0.10	0.31
Phenol	6.46	0.08	0.30
Octane	5.26	0.06	0.30
Trichloroethylene	5.21	0.06	0.33

Tube Number GRA 05194
Sample Location West
Exposure Time (mins) 40585

Top10 Compounds

	ng on tube	ppb in air*	µgm-3*
Tetrachloroethylene	88.92	1.10	7.19
Toluene	53.32	0.66	2.42
mp-Xylene	12.84	0.16	0.67
o-Xylene	9.09	0.11	0.47
Benzene	6.15	0.08	0.24
Trichloroethylene	4.82	0.06	0.31
Benzene, 1,2,4-trichloro-3-methyl-	3.65	0.04	0.35
Benzene, 1,4-dichloro-	3.44	0.04	0.25

8 Compounds Detected

Tube Number GRA 04630
Sample Location North West
Exposure Time (mins) 40600

Top10 Compounds

	ng on tube	ppb in air*	µgm-3*
Tetrachloroethylene	77.01	0.95	6.22
Toluene	48.99	0.60	2.22
mp-Xylene	15.01	0.18	0.78
o-Xylene	10.11	0.12	0.53
Benzene	8.36	0.10	0.32

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L. Gates, Laboratory Supervisor

LABORATORY ANALYSIS REPORT

Phenol	5.46	0.07	0.25
Ethylbenzene	5.07	0.06	0.26
Octane	4.89	0.06	0.27
Trichloroethylene	4.53	0.06	0.29
Benzene, 1,2,4-trichloro-3-methyl-	3.87	0.05	0.37

Tube Number GRA 02329
Sample Location North
Exposure Time (mins) 40560

Top10 Compounds	ng on tube	ppb in air*	µgm-3*
Hexane	117.73	1.45	4.99
Toluene	113.75	1.40	5.16
Cyclopentane, methyl-	86.28	1.06	3.57
Tetrachloroethylene	85.99	1.06	6.95
Pentane, 3-methyl-	81.56	1.01	3.46
Naphthalene	50.73	0.63	3.20
Pentane, 2-methyl-	55.90	0.69	2.37
mp-Xylene	16.53	0.20	0.86
Heptane	18.41	0.23	0.91
Naphthalene, 1-methyl-	7.08	0.09	0.50

Tube Number GRA 06461
Sample Location WWTW
Exposure Time (mins) 40600

Top10 Compounds	ng on tube	ppb in air*	µgm-3*
Tetrachloroethylene	22.41	0.28	1.81
Ethylbenzene	17.49	0.22	0.91
Trichloroethylene	14.73	0.18	0.94
Toluene	14.15	0.17	0.64
Hexane	10.97	0.14	0.46
Cyclopentane, methyl-	6.53	0.08	0.27
mp-Xylene	4.87	0.06	0.25

7 Compounds Detected

The Diffusion Tubes have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures calculations and assessments involving the exposure procedures and periods provided by the client are not within the scope of our UKAS accreditation. Those results obtained using exposure data shall be indicated by an asterisk. Any queries concerning the data in this report should be directed to the Laboratory Manager Gradko International Ltd.

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L. Gates, Laboratory Supervisor

LABORATORY ANALYSIS REPORT

Tube Number GRA 04229
Sample Location Church Rd
Exposure Time (mins) 40665

Top10 Compounds

	ng on tube	ppb in air*	µgm-3*
Naphthalene	516.92	6.36	32.54
Naphthalene, 1-methyl-	71.90	0.88	5.02
Tetrachloroethylene	37.79	0.46	3.05
Naphthalene, 2-methyl-	37.00	0.45	2.58
Toluene	23.68	0.29	1.07
mp-Xylene	8.73	0.11	0.45
Benzene	6.81	0.08	0.26
Trichloroethylene	2.59	0.03	0.17
Octane	5.54	0.07	0.31
Tetradecane	5.00	0.06	0.49

Tube Number GRA 06438
Sample Location Queens Close
Exposure Time (mins) 40665

Top10 Compounds

	ng on tube	ppb in air*	µgm-3*
Toluene	21.32	0.26	0.96
mp-Xylene	14.41	0.18	0.75
Benzene	11.29	0.14	0.43
o-Xylene	8.52	0.10	0.44
Tetrachloroethylene	7.98	0.10	0.64
Ethylbenzene	5.33	0.07	0.28
Dodecane	4.10	0.05	0.34
Heptadecane	2.95	0.04	0.35

8 Compounds Detected

Semi-quantitative results for ng on tube are calculated using toluene standards.

Analyst's Name G. Aikman
Date of Analysis 14.09.10
Date of Report 15.09.10

The Diffusion Tubes have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures calculations and assessments involving the exposure procedures and periods provided by the client are not within the scope of our UKAS accreditation. Those results obtained using exposure data shall be indicated by an asterisk. Any queries concerning the data in this report should be directed to the Laboratory Manager Gradko International Ltd.

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Gradko International Ltd
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L. Gates, Laboratory Supervisor

Appendix D

Directional Dust Monitoring

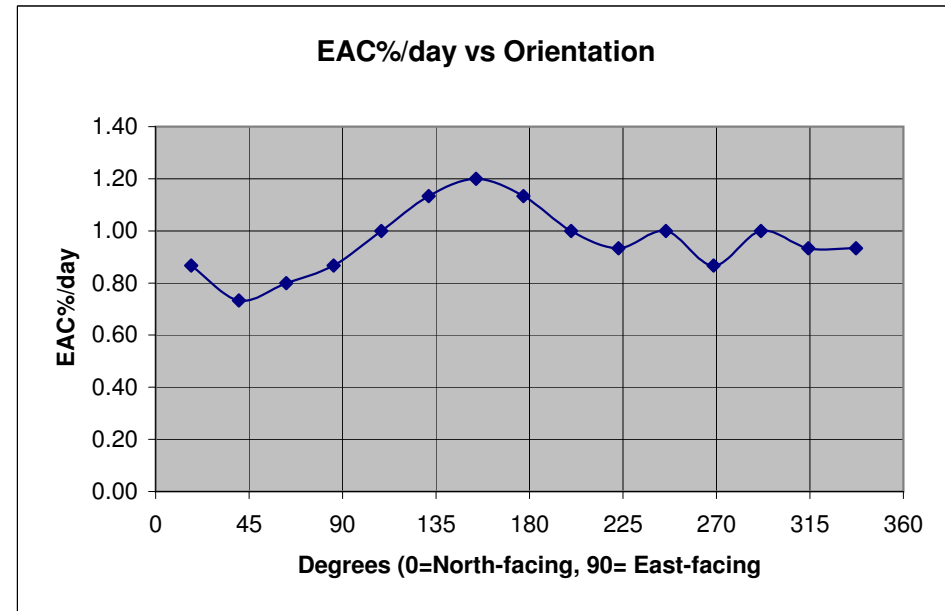
Gauge Number - North location 907BRI

Sticky Pad Data

Date On **22/07/2010** Date Off **06/08/2010** Days = 15

Clean = **90**

X Axis mm	Meter	Angle deg	EAC%/day
20	76	337	0.93
40	76	314	0.93
60	75	291	1.00
80	77	269	0.87
100	75	246	1.00
120	76	223	0.93
140	75	200	1.00
160	73	177	1.13
180	72	154	1.20
200	73	131	1.13
220	75	109	1.00
240	77	86	0.87
260	78	63	0.80
280	79	40	0.73
300	77	17	0.87



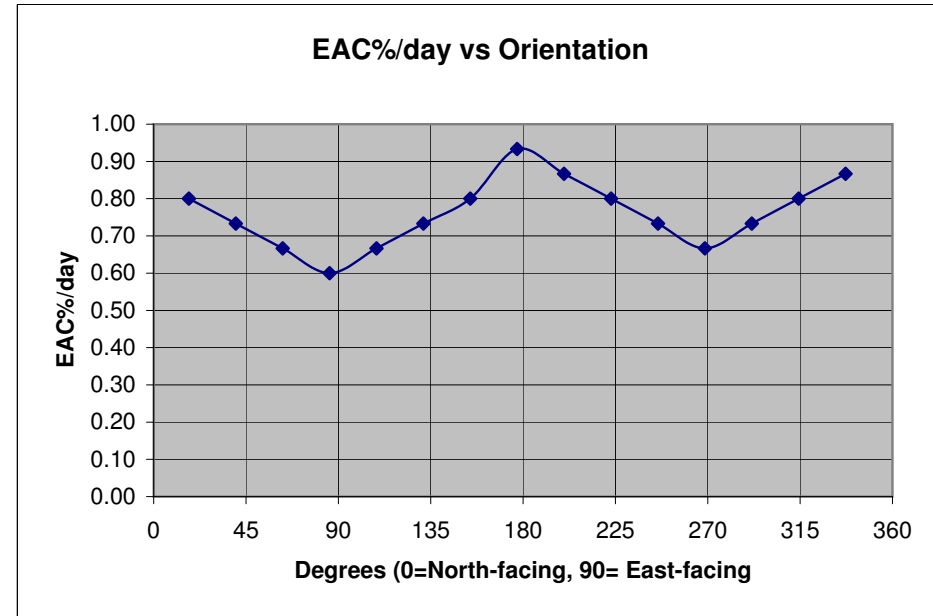
Note: Cells coloured yellow are inputs.
 The rest are either constants or calculated values.
 The calculation is based on taking readings at 40mm intervals along the sticky pad.

Gauge Number - NE1 location 907BRI

Sticky Pad Data

Date On **22/07/2010** Date Off **06/08/2010** Days = 15
 Clean = **90**

X Axis mm	Meter	Angle deg	EAC%/day
20	77	337	0.87
40	78	314	0.80
60	79	291	0.73
80	80	269	0.67
100	79	246	0.73
120	78	223	0.80
140	77	200	0.87
160	76	177	0.93
180	78	154	0.80
200	79	131	0.73
220	80	109	0.67
240	81	86	0.60
260	80	63	0.67
280	79	40	0.73
300	78	17	0.80



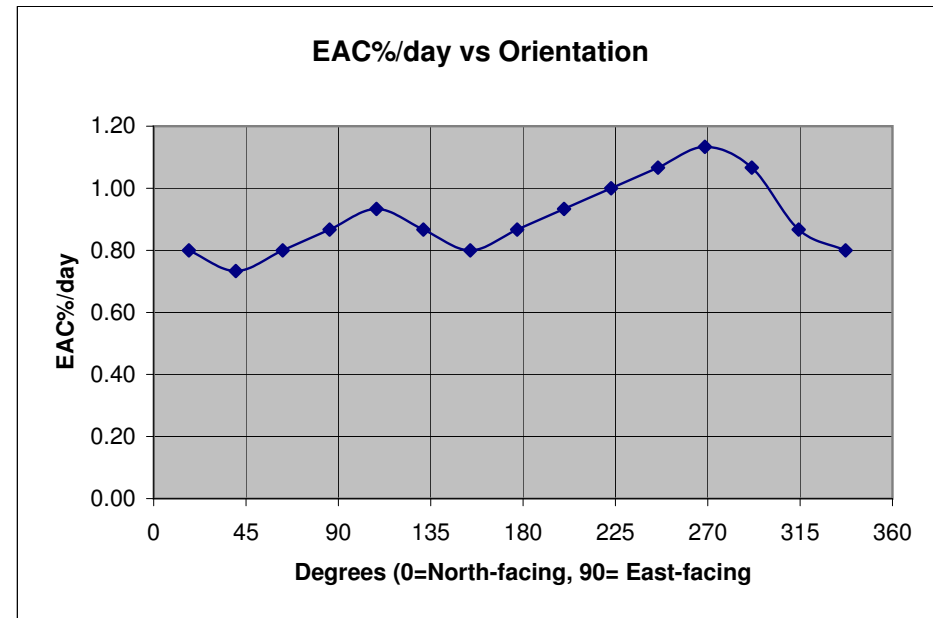
Note: Cells coloured yellow are inputs.
 The rest are either constants or calculated values.
 The calculation is based on taking readings at 40mm intervals along the sticky pad.

Gauge Number - NE2 location 907BRI

Sticky Pad Data

Date On **22/07/2010** Date Off **06/08/2010** Days = 15
 Clean = **90**

X Axis mm	Meter	Angle deg	EAC%/day
20	78	337	0.80
40	77	314	0.87
60	74	291	1.07
80	73	269	1.13
100	74	246	1.07
120	75	223	1.00
140	76	200	0.93
160	77	177	0.87
180	78	154	0.80
200	77	131	0.87
220	76	109	0.93
240	77	86	0.87
260	78	63	0.80
280	79	40	0.73
300	78	17	0.80



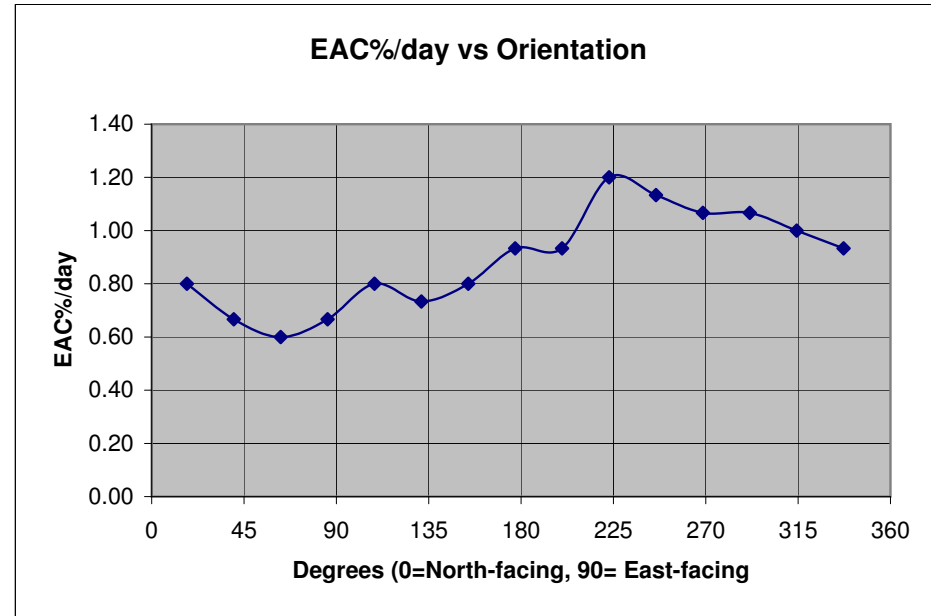
Note: Cells coloured yellow are inputs.
 The rest are either constants or calculated values.
 The calculation is based on taking readings at 40mm intervals along the sticky pad.

Gauge Number - South location 907BRI

Sticky Pad Data

Date On **22/07/2010** Date Off **06/08/2010** Days = 15
 Clean = **90**

X Axis mm	Meter	Angle deg	EAC%/day
20	76	337	0.93
40	75	314	1.00
60	74	291	1.07
80	74	269	1.07
100	73	246	1.13
120	72	223	1.20
140	76	200	0.93
160	76	177	0.93
180	78	154	0.80
200	79	131	0.73
220	78	109	0.80
240	80	86	0.67
260	81	63	0.60
280	80	40	0.67
300	78	17	0.80



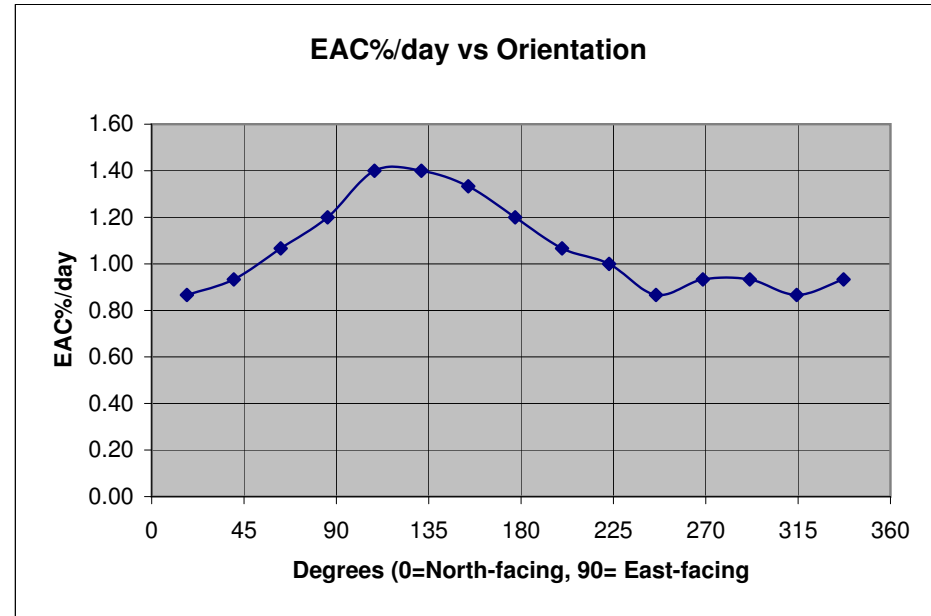
Note: Cells coloured yellow are inputs.
 The rest are either constants or calculated values.
 The calculation is based on taking readings at 40mm intervals along the sticky pad.

Gauge Number - West location 907BRI

Sticky Pad Data

Date On **22/07/2010** Date Off **06/08/2010** Days = 15
 Clean = **90**

X Axis mm	Meter	Angle deg	EAC%/day
20	76	337	0.93
40	77	314	0.87
60	76	291	0.93
80	76	269	0.93
100	77	246	0.87
120	75	223	1.00
140	74	200	1.07
160	72	177	1.20
180	70	154	1.33
200	69	131	1.40
220	69	109	1.40
240	72	86	1.20
260	74	63	1.07
280	76	40	0.93
300	77	17	0.87



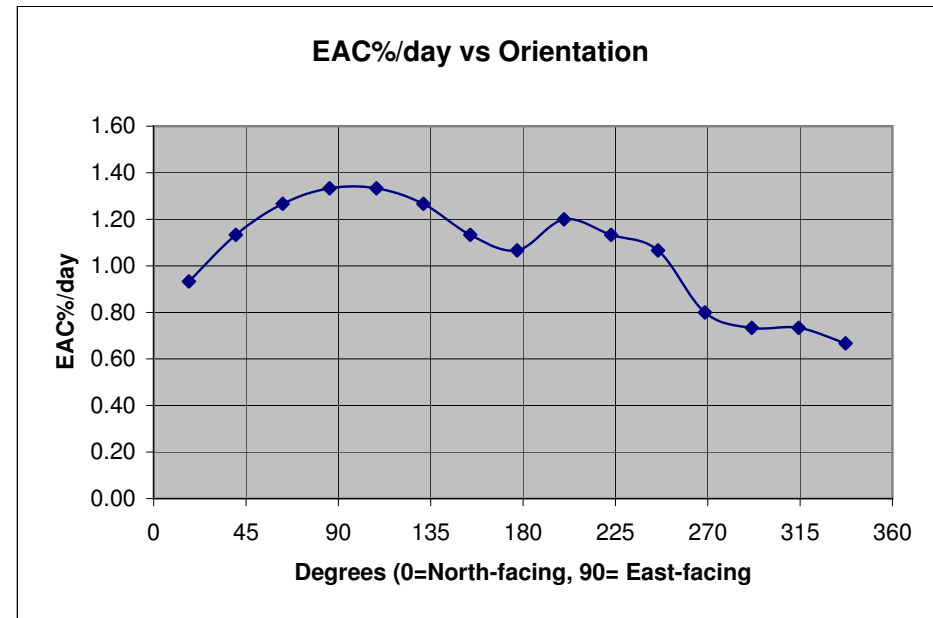
Note: Cells coloured yellow are inputs.
 The rest are either constants or calculated values.
 The calculation is based on taking readings at 40mm intervals along the sticky pad.

Gauge Number - East location 907BRI

Sticky Pad Data

Date On **22/07/2010** Date Off **06/08/2010** Days = 15
 Clean = **90**

X Axis mm	Meter	Angle deg	EAC%/day
20	80	337	0.67
40	79	314	0.73
60	79	291	0.73
80	78	269	0.80
100	74	246	1.07
120	73	223	1.13
140	72	200	1.20
160	74	177	1.07
180	73	154	1.13
200	71	131	1.27
220	70	109	1.33
240	70	86	1.33
260	71	63	1.27
280	73	40	1.13
300	76	17	0.93



Note: Cells coloured yellow are inputs.
 The rest are either constants or calculated values.
 The calculation is based on taking readings at 40mm intervals along the sticky pad.

Gauge Number - North location 907BRI

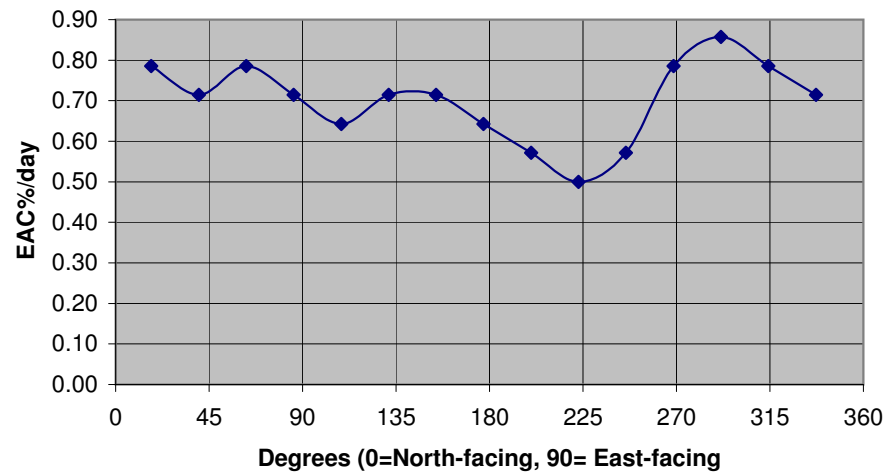
Sticky Pad Data

Date On **06/08/2010** Date Off **20/08/2010** Days = 14

Clean = **90**

X Axis mm	Meter	Angle deg	EAC%/day
20	80	337	0.71
40	79	314	0.79
60	78	291	0.86
80	79	269	0.79
100	82	246	0.57
120	83	223	0.50
140	82	200	0.57
160	81	177	0.64
180	80	154	0.71
200	80	131	0.71
220	81	109	0.64
240	80	86	0.71
260	79	63	0.79
280	80	40	0.71
300	79	17	0.79

EAC%/day vs Orientation



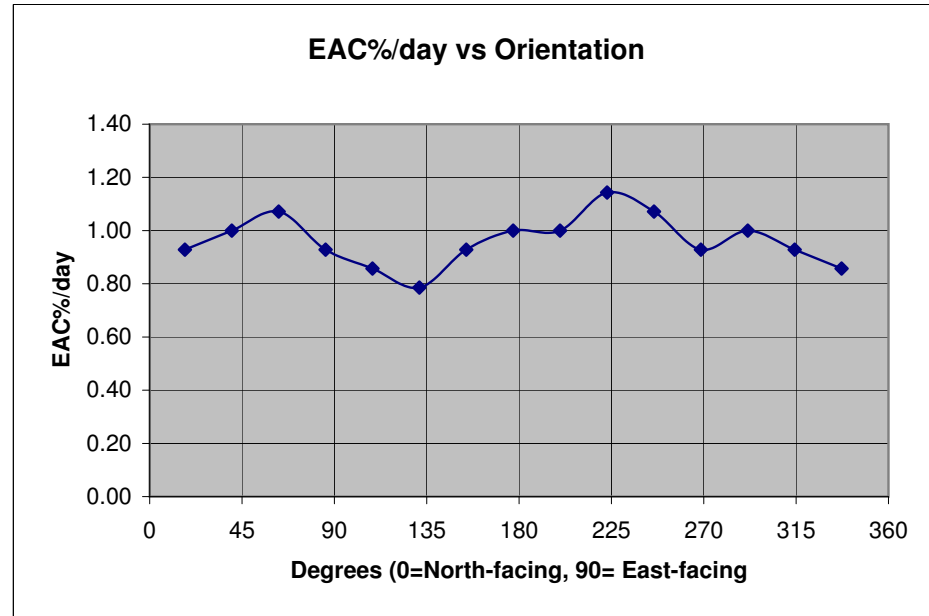
Note: Cells coloured yellow are inputs.
 The rest are either constants or calculated values.
 The calculation is based on taking readings at 40mm intervals along the sticky pad.

Gauge Number - NE1 location 907BRI

Sticky Pad Data

Date On **06/08/2010** Date Off **20/08/2010** Days = 14
 Clean = **90**

X Axis mm	Meter	Angle deg	EAC%/day
20	78	337	0.86
40	77	314	0.93
60	76	291	1.00
80	77	269	0.93
100	75	246	1.07
120	74	223	1.14
140	76	200	1.00
160	76	177	1.00
180	77	154	0.93
200	79	131	0.79
220	78	109	0.86
240	77	86	0.93
260	75	63	1.07
280	76	40	1.00
300	77	17	0.93



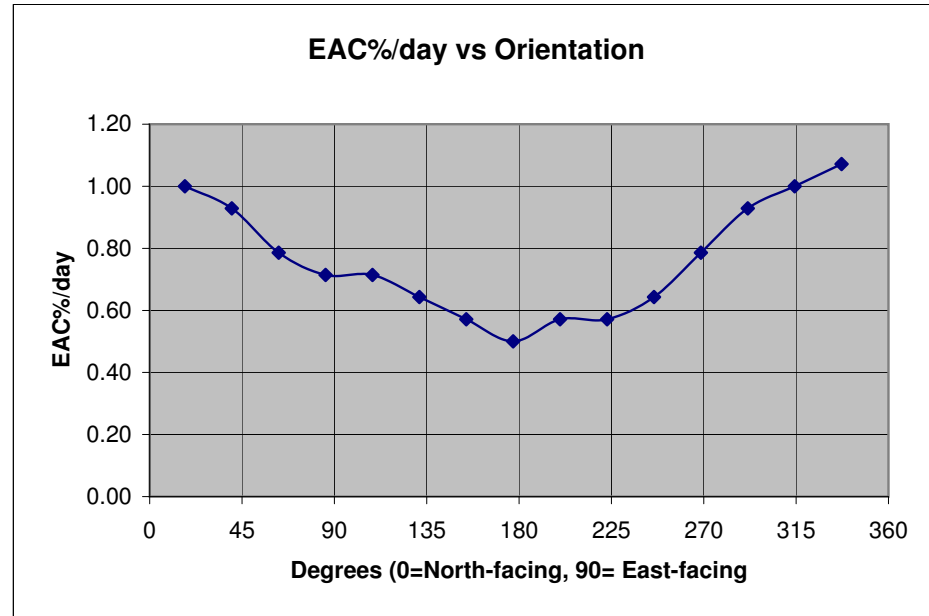
Note: Cells coloured yellow are inputs.
 The rest are either constants or calculated values.
 The calculation is based on taking readings at 40mm intervals along the sticky pad.

Gauge Number - NE2 location 907BRI

Sticky Pad Data

Date On **06/08/2010** Date Off **20/08/2010** Days = 14
 Clean = **90**

X Axis mm	Meter	Angle deg	EAC%/day
20	75	337	1.07
40	76	314	1.00
60	77	291	0.93
80	79	269	0.79
100	81	246	0.64
120	82	223	0.57
140	82	200	0.57
160	83	177	0.50
180	82	154	0.57
200	81	131	0.64
220	80	109	0.71
240	80	86	0.71
260	79	63	0.79
280	77	40	0.93
300	76	17	1.00



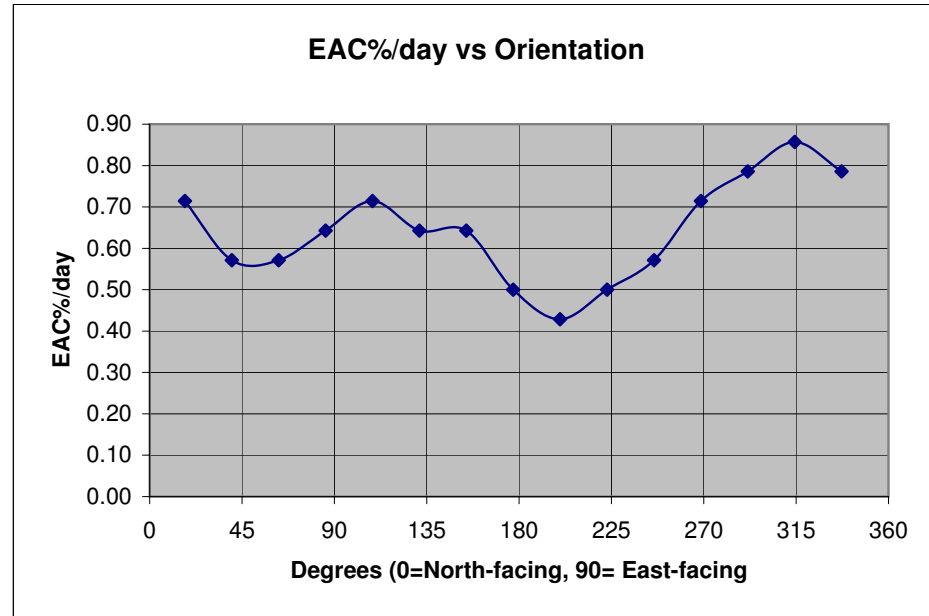
Note: Cells coloured yellow are inputs.
 The rest are either constants or calculated values.
 The calculation is based on taking readings at 40mm intervals along the sticky pad.

Gauge Number - South location 907BRI

Sticky Pad Data

Date On **06/08/2010** Date Off **20/08/2010** Days = 14
 Clean = **90**

X Axis mm	Meter	Angle deg	EAC%/day
20	79	337	0.79
40	78	314	0.86
60	79	291	0.79
80	80	269	0.71
100	82	246	0.57
120	83	223	0.50
140	84	200	0.43
160	83	177	0.50
180	81	154	0.64
200	81	131	0.64
220	80	109	0.71
240	81	86	0.64
260	82	63	0.57
280	82	40	0.57
300	80	17	0.71



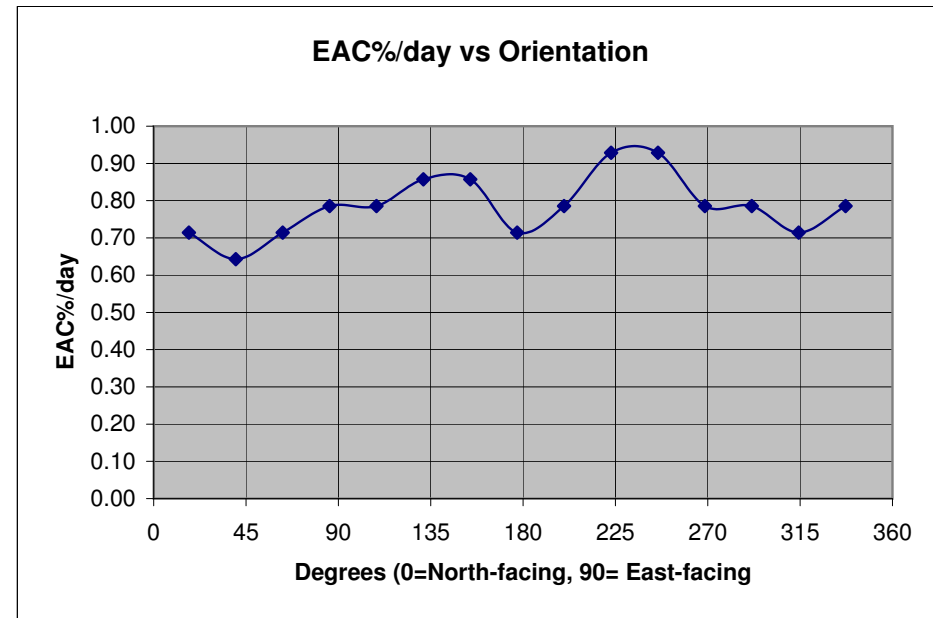
Note: Cells coloured yellow are inputs.
 The rest are either constants or calculated values.
 The calculation is based on taking readings at 40mm intervals along the sticky pad.

Gauge Number - West location 907BRI

Sticky Pad Data

Date On **06/08/2010** Date Off **20/08/2010** Days = 14
 Clean = **90**

X Axis mm	Meter	Angle deg	EAC%/day
20	79	337	0.79
40	80	314	0.71
60	79	291	0.79
80	79	269	0.79
100	77	246	0.93
120	77	223	0.93
140	79	200	0.79
160	80	177	0.71
180	78	154	0.86
200	78	131	0.86
220	79	109	0.79
240	79	86	0.79
260	80	63	0.71
280	81	40	0.64
300	80	17	0.71



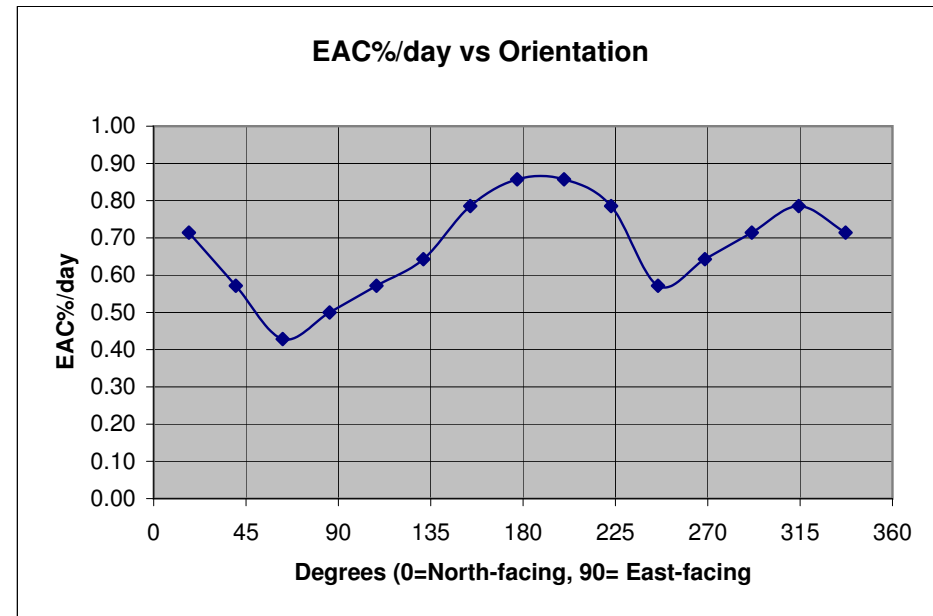
Note: Cells coloured yellow are inputs.
 The rest are either constants or calculated values.
 The calculation is based on taking readings at 40mm intervals along the sticky pad.

Gauge Number - East location 907BRI

Sticky Pad Data

Date On 06/08/2010 Date Off 20/08/2010 Days = 14
Clean = 90

X Axis mm	Meter	Angle deg	EAC%/day
20	80	337	0.71
40	79	314	0.79
60	80	291	0.71
80	81	269	0.64
100	82	246	0.57
120	79	223	0.79
140	78	200	0.86
160	78	177	0.86
180	79	154	0.79
200	81	131	0.64
220	82	109	0.57
240	83	86	0.50
260	84	63	0.43
280	82	40	0.57
300	80	17	0.71



Note: Cells coloured yellow are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 40mm intervals along the sticky pad.

Appendix E
Groundwater Level Data

Date	BH6/06	S3/4	BH4	P67**	BH19	BH10B/06	BH9	S1/8	BH11*	S2/6	BH1/06	BH3/06	BH8/06	BHB1	BHB2	BHB3	W1 (n)	W2	W3 (s)	Riddy 1	Riddy 2	Riddy 3	Riddy 4
02/08/2010	9.82	10.57	10.284	Blocked	Lost	10.351	10.419	9.824	9.653	10.883	Lost	covered	9.162	9.85	Lost	Lost	10.22	10.23	10.27	9.219	9.284	9.540	9.659
03/08/2010	9.82	10.58	10.314	Blocked	Lost	10.351	10.439	9.804	9.693	10.883	Lost	covered	9.172	9.81	Lost	Lost	10.19	10.2	10.23	9.209	9.304	9.540	9.659
04/08/2010	9.86	10.57	10.314	Blocked	Lost	10.371	10.449	9.784	9.713	10.863	Lost	covered	9.182	9.77	Lost	Lost	10.16	10.16	10.21	9.209	9.294	9.550	9.659
05/08/2010	9.85	10.57	10.324	Blocked	Lost	10.381	10.449	9.764	9.733	10.853	Lost	covered	9.182	9.75	Lost	Lost	10.17	10.13	10.18	9.209	9.304	9.550	9.649
06/08/2010	9.85	10.58	10.324	Blocked	Lost	10.391	10.469	9.774	9.743	10.853	Lost	covered	9.182	9.76	Lost	Lost	10.17	10.11	10.17	9.219	9.294	9.550	9.659
09/08/2010	9.88	10.58	10.354	Blocked	Lost	10.401	10.479	9.774	9.783	10.833	Lost	covered	9.232	9.74	Lost	Lost	10.16	10.11	10.12	9.219	9.304	9.540	9.659
10/08/2010	9.89	10.58	10.364	Blocked	Lost	10.401	10.479	9.784	9.773	10.833	Lost	covered	9.272	9.7	Lost	Lost	10.14	10.1	DRY	9.209	9.304	9.540	9.649
11/08/2010	9.83	10.58	10.254	Blocked	Lost	10.421	10.489	9.764	9.793	10.813	Lost	covered	9.292	9.69	Lost	Lost	10.15	10.09	DRY	9.209	9.304	9.540	9.639
12/08/2010	9.79	10.58	10.244	Blocked	Lost	10.431	10.459	9.754	9.803	10.803	Lost	covered	9.312	9.68	Lost	Lost	10.15	10.09	DRY	9.219	9.314	9.550	9.639
13/08/2010	9.78	10.58	10.244	Blocked	Lost	10.431	10.479	9.754	9.793	10.803	Lost	covered	9.332	9.68	Lost	Lost	10.15	10.09	DRY	9.219	9.314	9.550	9.639
16/08/2010	9.76	10.59	10.254	Blocked	Lost	10.431	10.459	9.764	9.763	10.793	Lost	covered	9.382	9.66	Lost	Lost	10.14	10.1	DRY	9.209	9.294	9.550	9.639
17/08/2010	9.78	10.6	10.264	Blocked	Lost	10.441	10.449	9.764	9.723	10.783	Lost	covered	9.402	9.67	Lost	Lost	10.15	10.1	DRY	9.209	9.294	9.540	9.649
18/08/2010	9.83	10.58	10.274	Blocked	Lost	10.431	10.449	9.764	9.723	10.803	Lost	covered	9.422	9.67	Lost	Lost	10.14	10.11	DRY	9.199	9.294	9.540	9.639
19/08/2010	9.84	10.58	10.264	Blocked	Lost	10.431	10.449	9.764	9.733	10.793	Lost	covered	9.432	9.68	Lost	Lost	10.15	10.11	DRY	9.199	9.294	9.550	9.649
20/08/2010	9.85	10.58	10.304	Blocked	Lost	10.451	10.449	9.784	9.793	10.813	Lost	covered	covered	9.72	Lost	Lost	10.16	10.11	10.12	9.189	9.294	9.550	9.649
23/08/2010	9.92	10.63	10.534	Blocked	Lost	10.461	10.569	9.814	9.933	10.853	Lost	covered	covered	9.81	Lost	Lost	10.18	10.13	10.16	9.209	9.304	9.550	9.649
24/08/2010	10.09	10.61	10.514	Blocked	Lost	10.481	10.529	9.764	9.913	10.783	Lost	covered	covered	9.81	Lost	Lost	10.18	10.14	10.17	9.199	9.294	9.550	9.649
25/08/2010	10.12	10.59	10.524	Blocked	Lost	10.471	10.499	9.754	9.903	10.773	Lost	covered	covered	9.82	Lost	Lost	10.18	10.13	10.16	9.209	9.304	9.550	9.649
26/08/2010	10.1	10.58	10.784	Blocked	Lost	10.471	10.489	9.824	9.863	10.783	Lost	covered	covered	10.09	Lost	Lost	10.47	10.36	10.41	9.199	9.294	9.550	9.649
27/08/2010	10.09	10.58	10.794	Blocked	Lost	10.461	10.489	9.824	9.853	10.643	Lost	covered	covered	10.08	Lost	Lost	10.43	10.35	10.41	9.199	9.304	9.550	9.649

Appendix F
Surface Water Analysis Reports



Scientific Analysis Laboratories

Certificate of Analysis

Hadfield House
Hadfield Street
Cornbrook
Manchester
M16 9FE
Tel : 0161 874 2400
Fax : 0161 874 2468

Scientific Analysis Laboratories is a
limited company registered in England and
Wales (No 2514788) whose address is at
Hadfield House, Hadfield Street, Manchester M16 9FE

Report Number: 211291-2

Date of Report: 10-Sep-2010

Customer: VertaseFLI Limited
19 Napier Court
Barlborough Links
Barlborough
S43 4PZ

Customer Contact: The Project Management

Customer Job Reference: 907BRI
Customer Purchase Order: 907BRI
Date Job Received at SAL: 02-Sep-2010
Date Analysis Started: 03-Sep-2010
Date Analysis Completed: 10-Sep-2010

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs



1549

Report checked
and authorised by :
Amelia McVennon
Project Manager

Issued by :
Amelia McVennon
Project Manager

SAL Reference: 211291									
Customer Reference: 907BRI									
Water		Analysed as Water							
Vertase Hauxton Suite									
SAL Reference					211291 001	211291 002	211291 003	211291 004	211291 005
Customer Sample Reference					S2/6	BH10B/06	BH4	BH9	S3/4
Date Sampled					27-AUG-2010	27-AUG-2010	27-AUG-2010	27-AUG-2010	27-AUG-2010
Determinand	Method	Test Sample	LOD	Units					
Electrical Conductivity	T7	AR	10	µS/cm	2000	2000	1400	2300	4500
pH	T7	AR			11.6	9.1	7.6	7.3	6.9

SAL Reference: 211291									
Customer Reference: 907BRI									
Water		Analysed as Water							
Vertase Hauxton Suite									
SAL Reference					211291 006	211291 007	211291 008	211291 009	211291 010
Customer Sample Reference					BH11	BH6/06	S1/8	4/06	S3/6
Date Sampled					27-AUG-2010	27-AUG-2010	26-AUG-2010	26-AUG-2010	26-AUG-2010
Determinand	Method	Test Sample	LOD	Units					
Electrical Conductivity	T7	AR	10	µS/cm	480	920	2200	1300	2700
pH	T7	AR			7.6	7.2	7.2	7.3	7.0

SAL Reference: 211291									
Customer Reference: 907BRI									
Water		Analysed as Water							
Vertase Hauxton Suite									
SAL Reference					211291 011	211291 012	211291 013	211291 014	211291 015
Customer Sample Reference					CAM UPSTREAM	CAM DOWNSTREAM	RIDDY UPSTREAM	RIDDY DOWNSTREAM	BH8/06
Date Sampled					26-AUG-2010	26-AUG-2010	26-AUG-2010	26-AUG-2010	31-AUG-2010
Determinand	Method	Test Sample	LOD	Units					
Electrical Conductivity	T7	AR	10	µS/cm	820	780	750	750	830
pH	T7	AR			7.7	7.9	7.7	7.8	7.7

SAL Reference: 211291									
Customer Reference: 907BRI									
Water		Analysed as Water							
Vertase Hauxton OP/ON Suite									
SAL Reference					211291 001	211291 002	211291 003	211291 004	211291 005
Customer Sample Reference					S2/6	BH10B/06	BH4	BH9	S3/4
Date Sampled					27-AUG-2010	27-AUG-2010	27-AUG-2010	27-AUG-2010	27-AUG-2010
Determinand	Method	Test Sample	LOD	Units					
Dimefox	T16	AR	0.1	µg/l	<0.1	<0.1	<0.1	<0.1	⁽⁹⁾ <1.0
Ethofumesate	T16	AR	0.1	µg/l	⁽²⁷⁾ 180	210	140	6.0	3.0
Hempa	T16	AR	0.1	µg/l	<0.1	<0.1	<0.1	0.6	460
Schradan	T16	AR	0.1	µg/l	<0.1	<0.1	<0.1	<0.1	150
Simazine	T16	AR	0.01	µg/l	<0.01	37	2.0	<0.01	⁽⁹⁾ <0.10

SAL Reference: 211291											
Customer Reference: 907BRI											
Water		Analysed as Water									
Vertase Hauxton OP/ON Suite											
SAL Reference		211291 006		211291 007		211291 008		211291 009		211291 010	
Customer Sample Reference		BH11		BH6/06		S1/8		4/06		S3/6	
Date Sampled		27-AUG-2010		27-AUG-2010		26-AUG-2010		26-AUG-2010		26-AUG-2010	
Determinand	Method	Test Sample	LOD	Units							
Dimefox	T16	AR	0.1	µg/l	<0.1	<0.1	<0.1	(9) <1.0	<0.1		
Ethofumesate	T16	AR	0.1	µg/l	4.8	1.0	370	610	270		
Hempa	T16	AR	0.1	µg/l	0.2	<0.1	<0.1	(9) <1.0	<0.1		
Schradan	T16	AR	0.1	µg/l	0.2	<0.1	44	8.0	380		
Simazine	T16	AR	0.01	µg/l	0.14	<0.01	3.7	(9) <0.10	17		

SAL Reference: 211291											
Customer Reference: 907BRI											
Water		Analysed as Water									
Vertase Hauxton OP/ON Suite											
SAL Reference		211291 011		211291 012		211291 013		211291 014		211291 015	
Customer Sample Reference		CAM UPSTREAM		CAM DOWNSTREAM		RIDDY UPSTREAM		RIDDY DOWNSTREAM		BH8/06	
Date Sampled		26-AUG-2010		26-AUG-2010		26-AUG-2010		26-AUG-2010		31-AUG-2010	
Determinand	Method	Test Sample	LOD	Units							
Dimefox	T16	AR	0.1	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1		
Ethofumesate	T16	AR	0.1	µg/l	<0.1	0.2	<0.1	0.8	48		
Hempa	T16	AR	0.1	µg/l	<0.1	<0.1	<0.1	<0.1	4.1		
Schradan	T16	AR	0.1	µg/l	<0.1	<0.1	<0.1	<0.1	4.3		
Simazine	T16	AR	0.01	µg/l	<0.01	<0.01	<0.01	0.14	1.6		

SAL Reference: 211291											
Customer Reference: 907BRI											
Water		Analysed as Water									
Vertase Hauxton Phenoxy Acid Herbs Suite											
SAL Reference		211291 001		211291 002		211291 003		211291 004		211291 005	
Customer Sample Reference		S2/6		BH10B/06		BH4		BH9		S3/4	
Date Sampled		27-AUG-2010		27-AUG-2010		27-AUG-2010		27-AUG-2010		27-AUG-2010	
Determinand	Method	Test Sample	LOD	Units							
Dicamba	T16	AR	0.1	µg/l	160	18	4.8	0.1	0.4		
Dichlorprop	T16	AR	0.1	µg/l	250	27	5.7	<0.1	3.8		
Phenoxy Acetic acid herbicide: MCPA	T16	AR	0.1	µg/l	3500	2200	72	2.3	4.7		
Mecoprop	T16	AR	0.1	µg/l	1300	1000	93	0.5	46		

SAL Reference: 211291											
Customer Reference: 907BRI											
Water		Analysed as Water									
Vertase Hauxton Phenoxy Acid Herbs Suite											
SAL Reference		211291 006		211291 007		211291 008		211291 009		211291 010	
Customer Sample Reference		BH11		BH6/06		S1/8		4/06		S3/6	
Date Sampled		27-AUG-2010		27-AUG-2010		26-AUG-2010		26-AUG-2010		26-AUG-2010	
Determinand	Method	Test Sample	LOD	Units							
Dicamba	T16	AR	0.1	µg/l	<0.1	<0.1	11	0.2	27		
Dichlorprop	T16	AR	0.1	µg/l	<0.1	<0.1	31	11	510		
Phenoxy Acetic acid herbicide: MCPA	T16	AR	0.1	µg/l	<0.1	<0.1	200	5.3	1600		
Mecoprop	T16	AR	0.1	µg/l	0.8	<0.1	110	30	980		

SAL Reference: 211291										
Customer Reference: 907BRI										
Water Analysed as Water										
Vertase Hauxton Phenoxy Acid Herbs Suite										
SAL Reference					211291 011	211291 012	211291 013	211291 014	211291 015	
Customer Sample Reference					CAM UPSTREAM	CAM DOWNSTREAM	RIDDY UPSTREAM	RIDDY DOWNSTREAM	BH8/06	
Date Sampled					26-AUG-2010	26-AUG-2010	26-AUG-2010	26-AUG-2010	31-AUG-2010	
Determinand	Method	Test Sample	LOD	Units						
Dicamba	T16	AR	0.1	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	0.9
Dichlorprop	T16	AR	0.1	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	0.6
Phenoxy Acetic acid herbicide: MCPA	T16	AR	0.1	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	43
Mecoprop	T16	AR	0.1	µg/l	<0.1	0.7	<0.1	1.6		6.3

SAL Reference: 211291										
Customer Reference: 907BRI										
Water Analysed as Water										
Vertase Hauxton SVOC Suite										
SAL Reference					211291 001	211291 002	211291 003	211291 004	211291 005	
Customer Sample Reference					S2/6	BH10B/06	BH4	BH9	S3/4	
Date Sampled					27-AUG-2010	27-AUG-2010	27-AUG-2010	27-AUG-2010	27-AUG-2010	
Determinand	Method	Test Sample	LOD	Units						
2,4,6-Trichlorophenol	T16	AR	10	µg/l	280	190	<10	<10	<10	<10
2-Methyl-4,6-dinitrophenol	T16	AR	10	µg/l	3200	5500	690	<10	<10	<10
4-Chloro-2-methylphenol	T16	AR	10	µg/l	1500	150	450	<10	<10	<10
Bis (2-chloroethyl) ether	T16	AR	10	µg/l	<10	120	82	62	1300	
Phenol	T16	AR	10	µg/l	(147) 2900	(162) <50	(162) <50	(162) <50	(162) <50	(162) <50

SAL Reference: 211291										
Customer Reference: 907BRI										
Water Analysed as Water										
Vertase Hauxton SVOC Suite										
SAL Reference					211291 006	211291 007	211291 008	211291 009	211291 010	
Customer Sample Reference					BH11	BH6/06	S1/8	4/06	S3/6	
Date Sampled					27-AUG-2010	27-AUG-2010	26-AUG-2010	26-AUG-2010	26-AUG-2010	
Determinand	Method	Test Sample	LOD	Units						
2,4,6-Trichlorophenol	T16	AR	10	µg/l	<10	<10	2900	11	2100	
2-Methyl-4,6-dinitrophenol	T16	AR	10	µg/l	<10	<10	<10	<10	<10	
4-Chloro-2-methylphenol	T16	AR	10	µg/l	<10	<10	3000	33	1900	
Bis (2-chloroethyl) ether	T16	AR	10	µg/l	<10	<10	2300	1400	10000	
Phenol	T16	AR	10	µg/l	(162) <50	(162) <50	(162) <50	(162) <50	(162) <50	(162) <50

SAL Reference: 211291										
Customer Reference: 907BRI										
Water Analysed as Water										
Vertase Hauxton SVOC Suite										
SAL Reference					211291 011	211291 012	211291 013	211291 014	211291 015	
Customer Sample Reference					CAM UPSTREAM	CAM DOWNSTREAM	RIDDY UPSTREAM	RIDDY DOWNSTREAM	BH8/06	
Date Sampled					26-AUG-2010	26-AUG-2010	26-AUG-2010	26-AUG-2010	31-AUG-2010	
Determinand	Method	Test Sample	LOD	Units						
2,4,6-Trichlorophenol	T16	AR	10	µg/l	<10	<10	<10	<10	<10	<10
2-Methyl-4,6-dinitrophenol	T16	AR	10	µg/l	<10	<10	<10	<10	<10	<10
4-Chloro-2-methylphenol	T16	AR	10	µg/l	<10	<10	<10	<10	<10	<10
Bis (2-chloroethyl) ether	T16	AR	10	µg/l	<10	<10	<10	<10	<10	<10
Phenol	T16	AR	10	µg/l	(162) <50	(162) <50	(162) <50	(162) <50	(162) <50	(162) <50

SAL Reference: 211291									
Customer Reference: 907BRI									
Water Analysed as Water									
Vertase Hauxton VOC Suite									
SAL Reference		211291 001	211291 002	211291 003	211291 004	211291 005			
Customer Sample Reference		S2/6	BH10B/06	BH4	BH9	S3/4			
Date Sampled		27-AUG-2010	27-AUG-2010	27-AUG-2010	27-AUG-2010	27-AUG-2010			
Determinand	Method	Test Sample	LOD	Units					
1,2-Dichlorobenzene	T54	AR	1	µg/l	12	8	1	4	4
1,2-Dichloroethane	T54	AR	1	µg/l	(13) <1	(13) <1	(13) <1	(13) <1	(13) <1
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	2	73	620	3	2
Cyclohexanone	T54	AR	10	µg/l	<10	<10	<10	<10	<10
Tetrachloroethylene	T54	AR	1	µg/l	290	400	3	170	170
Toluene	T54	AR	1	µg/l	90	10	2	<1	3
Trichloroethylene	T54	AR	1	µg/l	110	54	13	25	36
Vinyl chloride	T54	AR	1	µg/l	<1	12	110	<1	<1
Xylene (Total)	T54	AR	1	µg/l	41	6	57	6	60

SAL Reference: 211291									
Customer Reference: 907BRI									
Water Analysed as Water									
Vertase Hauxton VOC Suite									
SAL Reference		211291 006	211291 007	211291 008	211291 009	211291 010			
Customer Sample Reference		BH11	BH6/06	S1/8	4/06	S3/6			
Date Sampled		27-AUG-2010	27-AUG-2010	26-AUG-2010	26-AUG-2010	26-AUG-2010			
Determinand	Method	Test Sample	LOD	Units					
1,2-Dichlorobenzene	T54	AR	1	µg/l	4	1	(19) 1400	5	(19) 760
1,2-Dichloroethane	T54	AR	1	µg/l	(13) <1	(13) <1	(13,19) 1700	(13) <1	(19,13) 710
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	<1	<1	(19) 3200	<1	(19) 4000
Cyclohexanone	T54	AR	10	µg/l	<10	<10	(19,9) <200	<10	(19) 640
Tetrachloroethylene	T54	AR	1	µg/l	160	53	(19) 9200	<1	(19) 34000
Toluene	T54	AR	1	µg/l	1	5	(19) 22000	<1	(19) 12000
Trichloroethylene	T54	AR	1	µg/l	20	4	(19) 1800	<1	(19) 25000
Vinyl chloride	T54	AR	1	µg/l	<1	<1	(19) 370	<1	(19) 410
Xylene (Total)	T54	AR	1	µg/l	2	3	(19) 1900	290	(19) 2800

SAL Reference: 211291									
Customer Reference: 907BRI									
Water Analysed as Water									
Vertase Hauxton VOC Suite									
SAL Reference		211291 011	211291 012	211291 013	211291 014	211291 015			
Customer Sample Reference		CAM UPSTREAM	CAM DOWNSTREAM	RIDDY UPSTREAM	RIDDY DOWNSTREAM	BH8/06			
Date Sampled		26-AUG-2010	26-AUG-2010	26-AUG-2010	26-AUG-2010	31-AUG-2010			
Determinand	Method	Test Sample	LOD	Units					
1,2-Dichlorobenzene	T54	AR	1	µg/l	<1	<1	<1	<1	3
1,2-Dichloroethane	T54	AR	1	µg/l	(13) <1	(13) <1	(13) <1	(13) <1	(13) <1
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	<1	<1	<1	<1	<1
Cyclohexanone	T54	AR	10	µg/l	<10	<10	<10	<10	<10
Tetrachloroethylene	T54	AR	1	µg/l	2	1	3	2	140
Toluene	T54	AR	1	µg/l	<1	<1	2	2	12
Trichloroethylene	T54	AR	1	µg/l	<1	<1	<1	<1	16
Vinyl chloride	T54	AR	1	µg/l	<1	<1	<1	<1	<1
Xylene (Total)	T54	AR	1	µg/l	<1	<1	<1	<1	7

Index to symbols used in 211291-2

Value	Description
AR	As Received
162	LOD determined by matrix spike recovery
147	Result has been Recovery corrected.
9	LOD raised due to dilution of sample

13	Results have been blank corrected.
19	Due to high levels the analysis was conducted on a diluted sample
27	Result should be considered as a minimum due to detector saturation.
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T16	GC/MS
T7	Probe
T54	GC/MS (Headspace)

Accreditation Summary

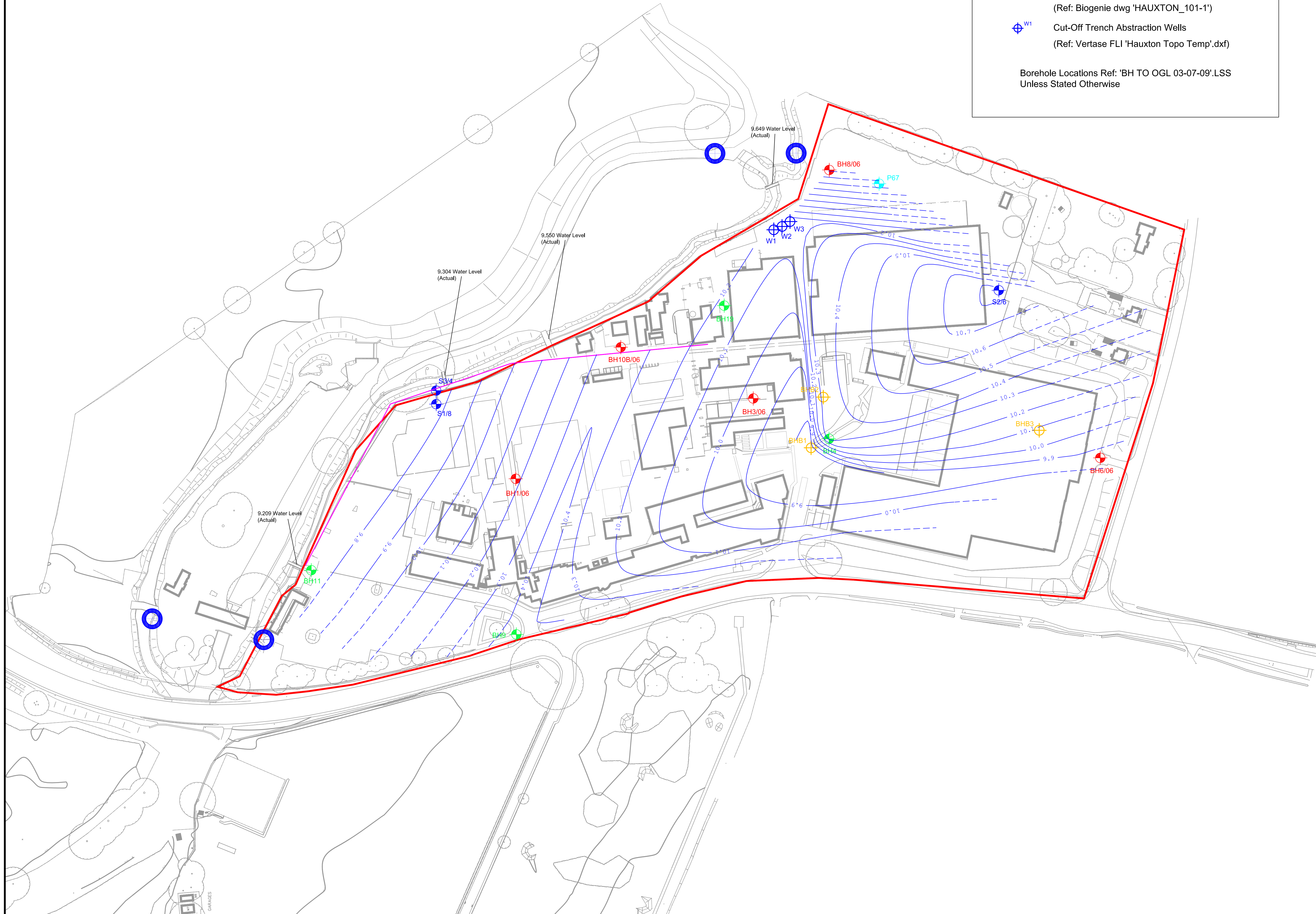
Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Electrical Conductivity	T7	AR	10	µS/cm	N	001-015
pH	T7	AR			U	001-015
Dimefox	T16	AR	0.1	µg/l	N	001-015
Ethofumesate	T16	AR	0.1	µg/l	N	001-015
Hempa	T16	AR	0.1	µg/l	N	001-015
Schradan	T16	AR	0.1	µg/l	N	001-015
Simazine	T16	AR	0.01	µg/l	N	001-015
Dicamba	T16	AR	0.1	µg/l	N	001-015
Dichlorprop	T16	AR	0.1	µg/l	N	001-015
Phenoxy Acetic acid herbicide: MCPA	T16	AR	0.1	µg/l	N	001-015
Mecoprop	T16	AR	0.1	µg/l	N	001-015
2,4,6-Trichlorophenol	T16	AR	10	µg/l	U	001-015
2-Methyl-4,6-dinitrophenol	T16	AR	10	µg/l	N	001-015
4-Chloro-2-methylphenol	T16	AR	10	µg/l	N	001-015
Bis (2-chloroethyl) ether	T16	AR	10	µg/l	U	001-015
Phenol	T16	AR	10	µg/l	U	001-015
1,2-Dichlorobenzene	T54	AR	1	µg/l	U	001-015
1,2-Dichloroethane	T54	AR	1	µg/l	U	001-015
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	U	001-015
Cyclohexanone	T54	AR	10	µg/l	N	001-015
Tetrachloroethylene	T54	AR	1	µg/l	U	001-015
Toluene	T54	AR	1	µg/l	U	001-015
Trichloroethylene	T54	AR	1	µg/l	U	001-015
Vinyl chloride	T54	AR	1	µg/l	U	001-015
Xylene (Total)	T54	AR	1	µg/l	U	001-015

Appendix G
Groundwater Contour Plots

Legend

- ◆ BH1/06 Atkins Exploratory Hole Location
- ◆ BH7 P67 Previous Borehole Location
- Water Sampling Location
- ◆ BHB1 Biogenie Boreholes
(Ref: Biogenie dwg 'HAUXTON_101-1')
- ◆ W1 Cut-Off Trench Abstraction Wells
(Ref: Vertase FLI 'Hauxton Topo Temp'.dxf)

Borehole Locations Ref: 'BH TO OGL 03-07-09'.LSS
Unless Stated Otherwise



Rev.	Description	Revised By	Date
	FIRST ISSUE		27-08-10

Vertase F.L.I.

- Bristol Head Office: Tel: 01275 397600 Fax: 01275 397601
- Sheffield Office: Tel: 01246 815289 Fax: 01246 812963
- Hertford Office: Tel: 01992 535757 Fax: 01992 535858
- Manchester Office: Tel: 01614 372708 Fax: 01614 376300

email: info@vertasefl.com
www.vertasefl.com

Site Address:
Bayer Site
Hauxton
Cambridge

Title: Ground Water Contours 05-08-10

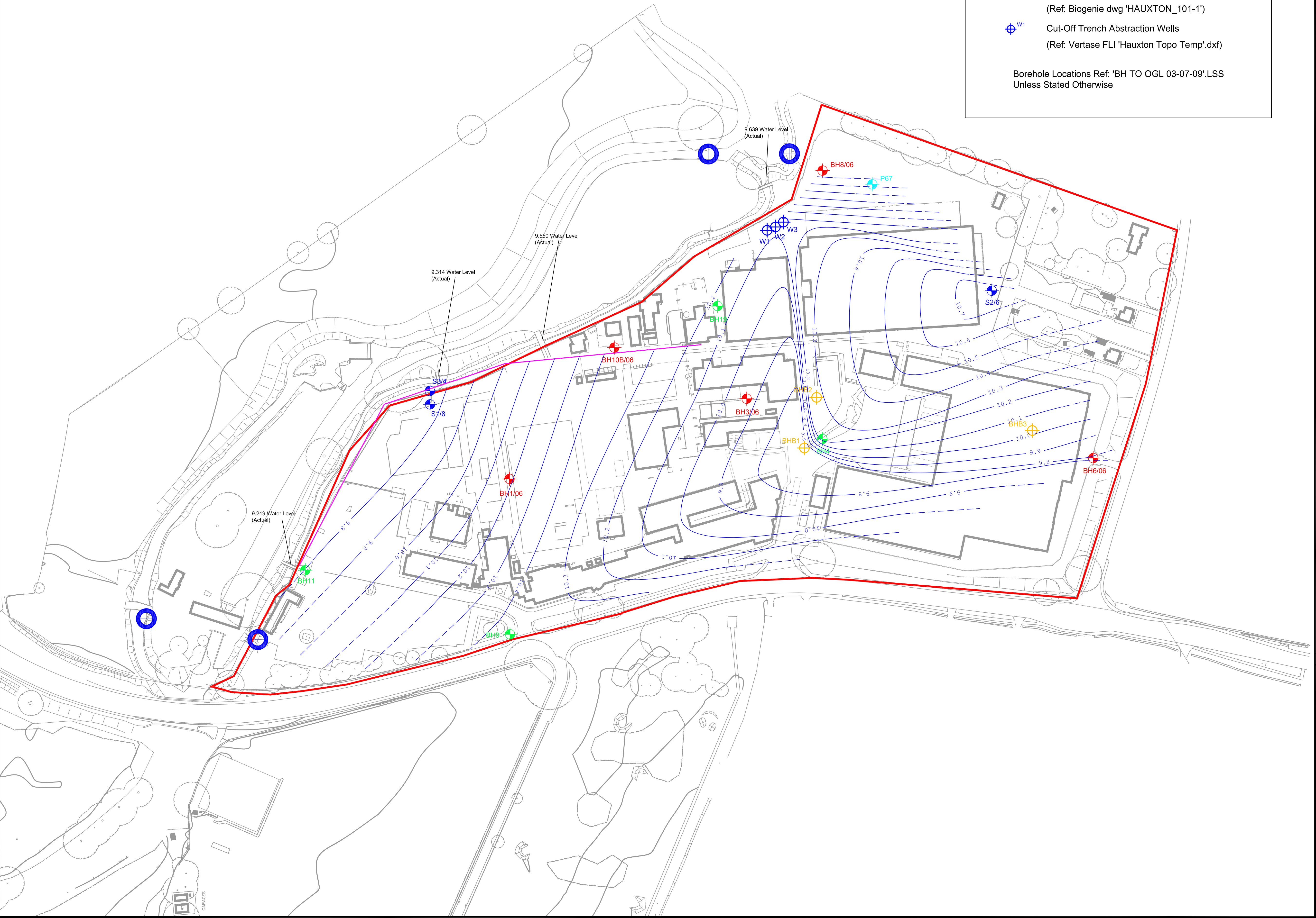
Client: Harrow Estates

Drawn: MRG	Checked: MA	Approved: MA
Dwg: D907_99	Contract: 907 BRI	Scale: 1:1000

Legend

- ⊕ BH1/06 Atkins Exploratory Hole Location
- ⊕ BH7, P67 Previous Borehole Location
- ⊕ Water Sampling Location
- ⊕ BHB1 Biogenie Boreholes
(Ref: Biogenie dwg 'HAUXTON_101-1')
- ⊕ W1 Cut-Off Trench Abstraction Wells
(Ref: Vertase FLI 'Hauxton Topo Temp'.dxf)

Borehole Locations Ref: 'BH TO OGL 03-07-09'.LSS
Unless Stated Otherwise



Rev.	Description	Revised By	Date
	FIRST ISSUE		31-08-10

Vertase F.L.I.

- Bristol Head Office: Tel: 01275 397600 Fax: 01275 397601
- Sheffield Office: Tel: 01246 813289 Fax: 01246 812983
- Hertford Office: Tel: 01992 535757 Fax: 01992 535858
- Manchester Office: Tel: 01614 372708 Fax: 01614 376300

email: info@vertasefli.co.uk
www.vertasefli.com

Site Address: Bayer Site, Hauxton, Cambridge

Title: Ground Water Contours 12-08-10

Client: Harrow Estates

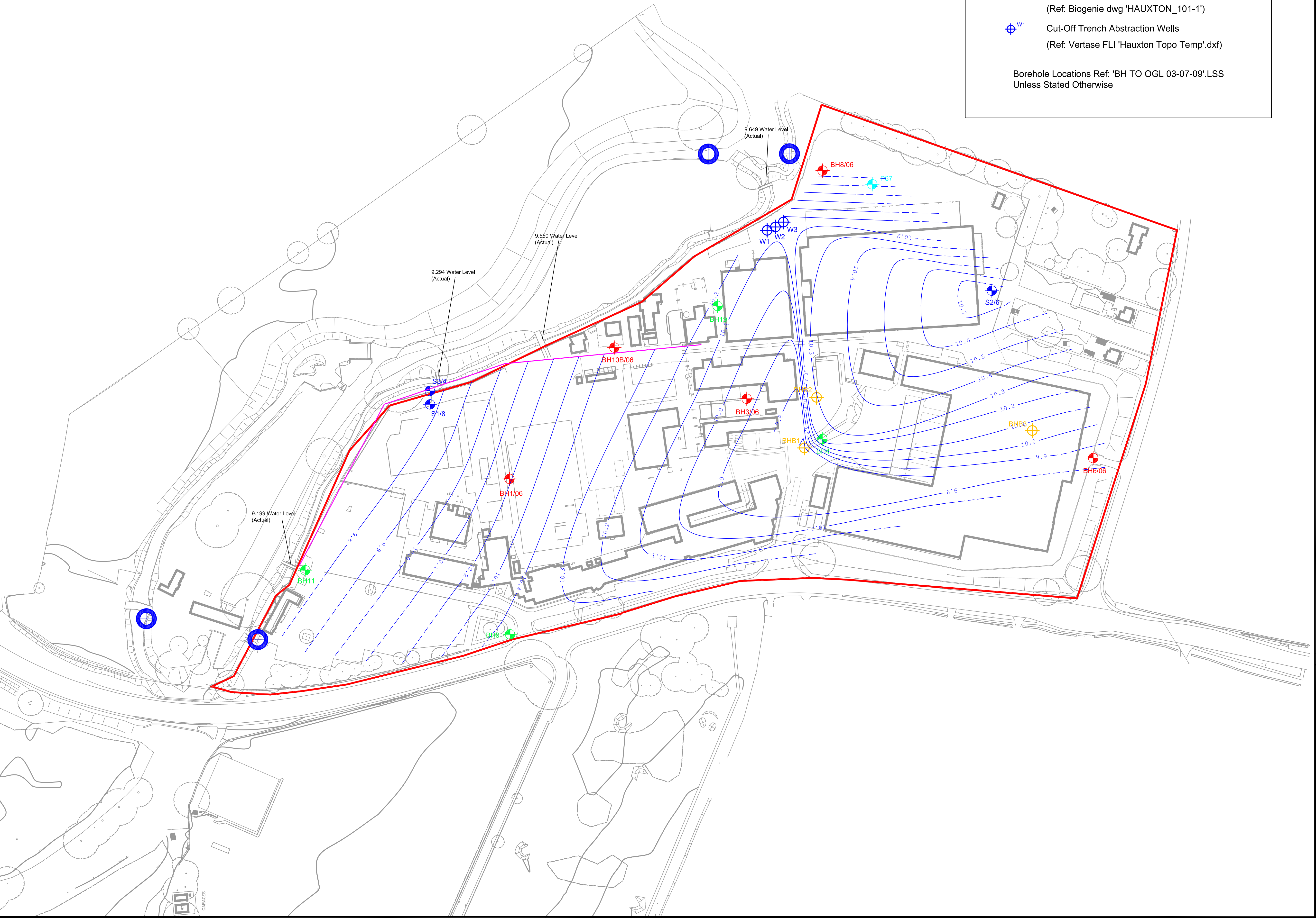
Drawn: MRG Checked: MA Approved: MA

Dwg: D907_100 Contract: 907 BR1 Scale: 1:1000

Legend

- ⊕ BH1/06 Atkins Exploratory Hole Location
- ⊕ BH7 P67 Previous Borehole Location
- ⊕ Water Sampling Location
- ⊕ BHB1 Biogenie Boreholes
(Ref: Biogenie dwg 'HAUXTON_101-1')
- ⊕ W1 Cut-Off Trench Abstraction Wells
(Ref: Vertase FLI 'Hauxton Topo Temp'.dxf)

Borehole Locations Ref: 'BH TO OGL 03-07-09'.LSS
Unless Stated Otherwise



Rev.	Description	Revised By	Date
	FIRST ISSUE		31-08-10

Vertase F.L.I.

- Bristol Head Office: Tel: 01275 397600 Fax: 01275 397601
- Sheffield Office: Tel: 01246 813289 Fax: 01246 812983
- Hertford Office: Tel: 01992 535757 Fax: 01992 535858
- Manchester Office: Tel: 01614 372708 Fax: 01614 376300

email: info@vertasefli.co.uk
www.vertasefli.com

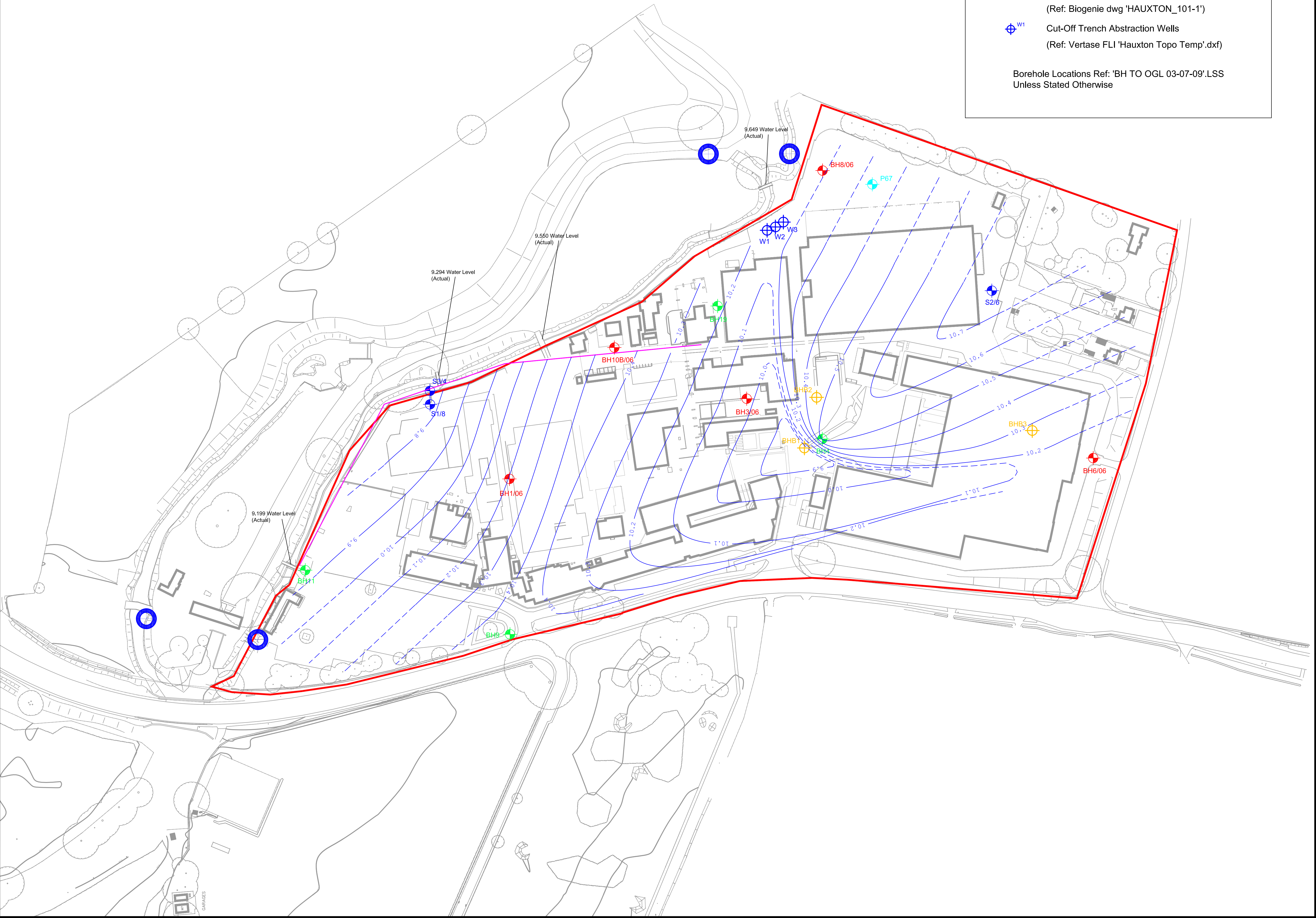
Site Address:	Rev:
Bayer Site Hauxton Cambridge	

Title: Ground Water Contours 19-08-10		
Client: Harrow Estates		
Drawn: MRG	Checked: MA	Approved: MA
Dwg: D907_101	Contract: 907 BR1	Scale: 1:1000

Legend

- ⊕ BH1/06 Atkins Exploratory Hole Location
- ⊕ BH7, P67 Previous Borehole Location
- ⊕ Water Sampling Location
- ⊕ BHB1 Biogenie Boreholes
(Ref: Biogenie dwg 'HAUXTON_101-1')
- ⊕ W1 Cut-Off Trench Abstraction Wells
(Ref: Vertase FLI 'Hauxton Topo Temp'.dxf)

Borehole Locations Ref: 'BH TO OGL 03-07-09'.LSS
Unless Stated Otherwise



Rev.	Description	Revised By	Date
	FIRST ISSUE		01-09-10

Vertase F.L.I.

- Bristol Head Office: Tel: 01275 397600 Fax: 01275 397601
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- Hertford Office: Tel: 01992 535757 Fax: 01992 535858
- Manchester Office: Tel: 01614 372708 Fax: 01614 376300

email: info@vertasefl.com
www.vertasefl.com

Site Address: Bayer Site, Hauxton, Cambridge

Title: Ground Water Contours 26-08-10

Client: Harrow Estates

Drawn: MRG Checked: MA Approved: MA

Dwg: D907_102 Contract: 907 BR1 Scale: 1:1000

Appendix H
Waste Water Treatment Plant Discharge Analysis

Water Quality Analysis of Effluent Discharge Sample

Sample Taken	Report Date	Report Number	Sample Location	Bromide mg/l	Chloride mg/l	Sulphate Ion mg/l	Suspended Solids (Total) mg/l	Ammoniacal Nitrogen mg/l	Biochemical Oxygen Demand mg/l	pH	Atrazine µg/l	Trietazine µg/l	Simazine µg/l	Total Atrazine, Trietazine and Simazine ug/l	Benazolin µg/l	2,3,6-TBA µg/l	Dicamba µg/l	Hempa µg/l	Schradan µg/l
<i>Consented Levels</i>				50	3000	5000	45	15	30	na	<i>Total of all three</i>			250	50	20	50	274	135
01/03/2010	17/03/2010	193447	Discharge Point	0.30	84.00	150.00	<10	<0.05	<3	8.4	<0.02	0.07	<0.01	0.07	<0.1	0.40	<0.1	<0.1	<0.1
30/03/2010	09/04/2010	195429	Discharge Point	0.40	110.00	180.00	<10	<0.05	<3	8.7	<0.01	<0.01	<0.01	0.00	<0.1	0.30	<0.1	0.40	<0.1
08/04/2010	13/04/2010	196139	T99 Circ	<1.0	110.00	190.00	<10	<0.05	<3	8.0	<0.01	<0.01	<0.01	0.00	<0.1	<0.1	<0.1	2.90	0.40
10/04/2010	19/04/2010	196379	T100 Circ	<1.0	110.00	190.00	<10	0.05	<3	7.9	<0.01	0.01	<0.01	0.01	<0.1	<0.1	<0.1	0.90	0.30
12/04/2010	21/04/2010	196517	T100 Circ	<1.0	1100.00	200.00	<10	<0.05	<3	8.2	<0.01	<0.01	<0.01	0.00	<0.1	<0.1	<0.1	1.50	<0.1
28/04/2010	19/05/2010	199291	Discharge Point	<1.0	130.00	200.00	<10	<0.05	<3	8.1	<0.01	<0.01	<0.01	0.00	<0.1	<0.1	<0.1	5.10	1.50
07/05/2010	17/05/2010	199176	T99 Discharge	<1.0	110.00	200.00	<10	<0.05	6.60	8.2	<0.01	<0.01	<0.01	0.00	<0.2	3.00	<0.2	3.30	0.60
18/05/2010	01/06/2010	200382	Discharge Point	<1.0	180.00	280.00	<10	0.09	<3	8.0	<0.01	0.01	<0.01	0.01	0.60	5.20	0.20	6.30	3.80
28/05/2010	17/06/2010	201487	Discharge Point	<1.0	130.00	210.00	<10	<0.05	<3	8.1	<0.01	<0.01	<0.01	0.00	<0.1	1.30	<0.1	4.30	1.10
15/06/2010	28/06/2010	203351	WTW Discharge	2.7	240.00	320.00	<10	0.05	<3	8.1	<0.01	0.02	<0.01	0.02	<0.1	2.40	0.2	4.10	1.00
01/07/2010	19/07/2010	205613	WWTW Discharge	3.3	290.00	370.00	13	0.07	<3	8.1	<0.01	<0.01	<0.01	0.00	<0.1	0.40	<0.1	<0.1	<0.1
05/08/2010	16/08/2010	208693	WWTW Discharge	<1.0	160.00	300.00	<10	<0.05	<3	8.0	0.02	0.09	0.02	0.13	<0.5	0.40	<0.1	<0.1	<0.1
19/08/2010	26/08/2010	209961	WWTW Discharge	<1.0	160.00	260.00	<10	<0.05	<3	7.7	<0.01	<0.01	<0.01	0.00	<0.1	<0.1	<0.1	<0.1	<0.1



Scientific Analysis Laboratories

Certificate of Analysis

Hadfield House
Hadfield Street
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M16 9FE
Tel : 0161 874 2400
Fax : 0161 874 2468

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limited company registered in England and
Wales (No 2514788) whose address is at
Hadfield House, Hadfield Street, Manchester M16 9FE

Report Number: 208693-2

Date of Report: 16-Aug-2010

Customer: VertaseFLI Limited
19 Napier Court
Barlborough Links
Barlborough
S43 4PZ

Customer Contact: The Project Management

Customer Job Reference: 907 BRI WWTW
Date Job Received at SAL: 06-Aug-2010
Date Analysis Started: 06-Aug-2010
Date Analysis Completed: 16-Aug-2010

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
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Tests covered by this certificate were conducted in accordance with SAL SOPs



1549

Report checked
and authorised by :
Amelia McVennon
Project Manager

Issued by :
Amelia McVennon
Project Manager

SAL Reference: 208693						
Customer Reference: 907 BRI WWTW						
Water		Analysed as Water				
Miscellaneous						
SAL Reference				208693 001	208693 002	
Customer Sample Reference				WWTW INPUT	WWTW Discharge	
Determinand	Method	Test Sample	LOD	Units		
Ammoniacal nitrogen	T4	AR	50	µg/l	1300	<50
Biochemical Oxygen Demand	T7	AR	3000	µg/l	<3000	<3000
pH	T7	AR			7.4	8.0

SAL Reference: 208693						
Customer Reference: 907 BRI WWTW						
Water		Analysed as Water				
Suite A						
SAL Reference				208693 001	208693 002	
Customer Sample Reference				WWTW INPUT	WWTW Discharge	
Determinand	Method	Test Sample	LOD	Units		
Atrazine	T16	AR	0.01	µg/l	6.0	0.02
Trietazine	T16	AR	0.01	µg/l	23	0.09

SAL Reference: 208693						
Customer Reference: 907 BRI WWTW						
Water		Analysed as Water				
Suite B						
SAL Reference				208693 001	208693 002	
Customer Sample Reference				WWTW INPUT	WWTW Discharge	
Determinand	Method	Test Sample	LOD	Units		
Benazolin	T16	AR	0.1	µg/l	160	(2) <0.5
2,3,6-TCB	T16	AR	0.1	µg/l	160	0.4

SAL Reference: 208693						
Customer Reference: 907 BRI WWTW						
Water		Analysed as Water				
Suite C						
SAL Reference				208693 001	208693 002	
Customer Sample Reference				WWTW INPUT	WWTW Discharge	
Determinand	Method	Test Sample	LOD	Units		
Bromide	T253	AR	100	µg/l	(9) <1000	(9) <1000
Chloride	T253	AR	200	µg/l	150000	160000
Sulphate ion	T253	AR	100	µg/l	330000	300000
Suspended Solids (Total)	T2	AR	10000	µg/l	260000	<10000

SAL Reference: 208693						
Customer Reference: 907 BRI WWTW						
Water		Analysed as Water				
Suite D						
SAL Reference				208693 001	208693 002	
Customer Sample Reference				WWTW INPUT	WWTW Discharge	
Determinand	Method	Test Sample	LOD	Units		
Dicamba	T16	AR	0.1	µg/l	4.4	<0.1
Hempa	T16	AR	0.1	µg/l	3.0	<0.1
Schradan	T16	AR	0.1	µg/l	1.2	<0.1
Simazine	T16	AR	0.01	µg/l	6.8	0.02

Index to symbols used in 208693-2

Value	Description
AR	As Received
2	LOD Raised Due to Matrix Interference
9	LOD raised due to dilution of sample
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T16	GC/MS
T7	Probe
T253	IC(EID299)
T4	Colorimetry
T2	Grav

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Ammoniacal nitrogen	T4	AR	50	µg/l	U	001-002
Biochemical Oxygen Demand	T7	AR	3000	µg/l	N	001-002
pH	T7	AR			U	001-002
Atrazine	T16	AR	0.01	µg/l	N	001-002
Trietazine	T16	AR	0.01	µg/l	N	001-002
Benazolin	T16	AR	0.1	µg/l	N	001-002
2,3,6-TCB	T16	AR	0.1	µg/l	N	001-002
Bromide	T253	AR	100	µg/l	U	001-002
Chloride	T253	AR	200	µg/l	U	001-002
Sulphate ion	T253	AR	100	µg/l	U	001-002
Suspended Solids (Total)	T2	AR	10000	µg/l	N	001-002
Dicamba	T16	AR	0.1	µg/l	N	001-002
Hempa	T16	AR	0.1	µg/l	N	001-002
Schradan	T16	AR	0.1	µg/l	N	001-002
Simazine	T16	AR	0.01	µg/l	N	001-002





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Wales (No 2514788) whose address is at
Hadfield House, Hadfield Street, Manchester M16 9FE

Report Number: 209961-1

Date of Report: 26-Aug-2010

Customer: VertaseFLI Limited
19 Napier Court
Barlborough Links
Barlborough
S43 4PZ

Customer Contact: The Project Management

Customer Job Reference: 907 BRI WWTW
Date Job Received at SAL: 19-Aug-2010
Date Analysis Started: 20-Aug-2010
Date Analysis Completed: 26-Aug-2010

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
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Tests covered by this certificate were conducted in accordance with SAL SOPs



1549

Report checked
and authorised by :
Mr Ross Walker
Customer Services Manager

Issued by :
Mr Ross Walker
Customer Services Manager

SAL Reference: 209961						
Customer Reference: 907 BRI WWTW						
Water		Analysed as Water				
Miscellaneous						
SAL Reference			209961 001		209961 002	
Customer Sample Reference			WWTW DISCHARGE		WWTW PRIMARY B	
Date Sampled			13-AUG-2010		13-AUG-2010	
Determinand	Method	Test Sample	LOD	Units		
Ammoniacal nitrogen	T4	AR	0.05	mg/l	<0.05	<0.05
Biochemical Oxygen Demand	T7	AR	3	mg/l	<3	<3
pH	T7	AR			7.7	7.9

SAL Reference: 209961						
Customer Reference: 907 BRI WWTW						
Water		Analysed as Water				
Suite A						
SAL Reference			209961 001		209961 002	
Customer Sample Reference			WWTW DISCHARGE		WWTW PRIMARY B	
Date Sampled			13-AUG-2010		13-AUG-2010	
Determinand	Method	Test Sample	LOD	Units		
Atrazine	T16	AR	0.00001	mg/l	<0.00001	<0.00001
Trietazine	T16	AR	0.00001	mg/l	<0.00001	0.00003

SAL Reference: 209961						
Customer Reference: 907 BRI WWTW						
Water		Analysed as Water				
Suite B						
SAL Reference			209961 001		209961 002	
Customer Sample Reference			WWTW DISCHARGE		WWTW PRIMARY B	
Date Sampled			13-AUG-2010		13-AUG-2010	
Determinand	Method	Test Sample	LOD	Units		
Benazolin	T16	AR	0.0001	mg/l	<0.0001	<0.0001
2,3,6-TCB	T16	AR	0.0001	mg/l	<0.0001	0.018

SAL Reference: 209961						
Customer Reference: 907 BRI WWTW						
Water		Analysed as Water				
Suite C						
SAL Reference			209961 001		209961 002	
Customer Sample Reference			WWTW DISCHARGE		WWTW PRIMARY B	
Date Sampled			13-AUG-2010		13-AUG-2010	
Determinand	Method	Test Sample	LOD	Units		
Bromide	T253	AR	0.1	mg/l	⁽⁹⁾ <1.0	⁽⁹⁾ <1.0
Chloride	T253	AR	0.2	mg/l	160	160
Sulphate ion	T253	AR	0.1	mg/l	260	260
Suspended Solids (Total)	T2	AR	10	mg/l	<10	<10

SAL Reference: 209961						
Customer Reference: 907 BRI WWTW						
Water		Analysed as Water				
Suite D						
SAL Reference			209961 001		209961 002	
Customer Sample Reference			WWTW DISCHARGE		WWTW PRIMARY B	
Date Sampled			13-AUG-2010		13-AUG-2010	
Determinand	Method	Test Sample	LOD	Units		
Dicamba	T16	AR	0.1	µg/l	<0.1	0.3
Hempa	T16	AR	0.1	µg/l	<0.1	2.1
Schradan	T16	AR	0.1	µg/l	<0.1	0.6
Simazine	T16	AR	0.01	µg/l	<0.01	<0.01

SAL Reference: 209961						
Customer Reference: 907 BRI WWTW						
Water		Analysed as Water				
Suite E						
SAL Reference			209961 001		209961 002	
Customer Sample Reference			WWTW DISCHARGE		WWTW PRIMARY B	
Date Sampled			13-AUG-2010		13-AUG-2010	
Determinand	Method	Test Sample	LOD	Units		
TVC at 22°C after 3 days	T34	AR	10	cfu/ml	> 10000	> 10000
TVC at 37°C after 2 days	T34	AR	10	cfu/ml	> 10000	> 10000

Index to symbols used in 209961-1

Value	Description
AR	As Received
9	LOD raised due to dilution of sample
W	Analysis was performed at another SAL laboratory
S	Analysis was subcontracted
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T253	IC(EID299)
T2	Grav
T16	GC/MS
T34	Micro
T4	Colorimetry
T7	Probe

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Ammoniacal nitrogen	T4	AR	0.05	mg/l	U	001-002
Biochemical Oxygen Demand	T7	AR	3	mg/l	N	001-002
pH	T7	AR			U	001-002
Atrazine	T16	AR	0.00001	mg/l	N	001-002
Trietazine	T16	AR	0.00001	mg/l	N	001-002
Benazolin	T16	AR	0.0001	mg/l	N	001-002
2,3,6-TCB	T16	AR	0.0001	mg/l	N	001-002
Bromide	T253	AR	0.1	mg/l	WU	001-002
Chloride	T253	AR	0.2	mg/l	WU	001-002
Sulphate ion	T253	AR	0.1	mg/l	WU	001-002
Suspended Solids (Total)	T2	AR	10	mg/l	N	001-002
Dicamba	T16	AR	0.1	µg/l	N	001-002
Hempa	T16	AR	0.1	µg/l	N	001-002

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Schradan	T16	AR	0.1	µg/l	N	001-002
Simazine	T16	AR	0.01	µg/l	N	001-002
TVC at 22°C after 3 days	T34	AR	10	cfu/ml	SN	001-002
TVC at 37°C after 2 days	T34	AR	10	cfu/ml	SN	001-002



Appendix I
Soil Characterisation Results Summary

Former Bayer Cropscience Site

Contaminants Not Previously Identified

Results Received	Reported to SCDC	Grid square	Contaminant	Concentration (µg/kg)	Likely use/origin
12.04.2010	06.05.2010	K15	VOC/SVOC peaks detected		
12.04.2010	06.05.2010	K16	Series of Aromatic Hydrocarbons circa C ₁₃ -C ₁₆	17,000	Potential herbicide degradation products. The structures are smaller and less complex than contaminants of concern and will therefore degrade more readily than the target contaminants and will be captured by the remediation process.
15.04.2010	06.05.2010 (09.06.2010)	J16	2(1-methylpropyl)-phenol	10,000	Encountered and assessed during site investigation, not a priority contaminant
			2,6-bis(1-methylpropyl)-phenol	100,000	Commonly used in the manufacture of specialty surfactants used as wetting agents for agrochemicals.
			2,6-bis(1,1-dimethylethyl)-4-(1-methylpropyl)-phenol	6,000	Commonly used as an antioxidant and stabiliser, also used in oils used in industrial applications.
			Unidentified branched aromatic alcohol, C ₁₄	240,000	Potential herbicide degradation products. The structures are smaller and less complex than contaminants of concern and will therefore degrade more readily than the target contaminants and will be captured by
			Unidentified branched aromatic alcohol, C ₁₈	290,000	
15.04.2010	06.05.2010	K14	Phenanthrene	4,100	Encountered and assessed during site investigation, concentration below target value
			Fluoranthene	4,800	
			Pyrene	3,900	
			Benzo(b/k)Fluoranthene	2,200	
07.05.2010	24.05.2010	K9	Dodecanoic acid (Lauric acid), isooctyl ester	2,400	Lauric acid - main acid in coconut oil and palm kernel oil, is non-toxic and safe to handle, is used in many soaps, shampoos and body butters.
			Unidentified Aliphatic Hydrocarbon circa C ₃₀	2,300	Potential herbicide degradation products. The structures are smaller and less complex than contaminants of concern and will therefore degrade more readily than the target contaminants and will be captured by the remediation process.

Former Bayer Cropscience Site

Contaminants Not Previously Identified

07.05.2010	24.05.2010 (09.06.2010)	L8	2,4-Dichloro-o-cresol	9,000	Potential herbicide degradation product
			Bis(2-ethylhexyl) maleate	3,800	Commonly used as an intermediate in hydrogenation or acetylation reactions, possibly used in agrochemicals manufacture
			Cyclo octaatomic sulphur	2,800	S ₈ is the most common form of sulphur in the solid state, widely used in insecticide and fungicide manufacture
			Dodecanoic acid (Lauric acid), isooctyl ester	7,400	Lauric acid - main acid in coconut oil and palm kernel oil, is non-toxic and safe to handle, is used in many soaps, shampoos and body butters.
			Unidentified aromatic hydrocarbon containing O and Cl circa C ₇	8,400	Potential herbicide degradation products. The structures are smaller and less complex than contaminants of concern and will therefore degrade more readily than the target contaminants and will be captured by the remediation process.
07.05.2010	24.05.2010	L9	Unidentified Aliphatic Hydrocarbon circa C ₃₀	2,300	Potential herbicide degradation products. The structures are smaller and less complex than contaminants of concern and will therefore degrade more readily than the target contaminants and will be captured by the remediation process.
13.05.2010	24.05.2010	H8	No VOC/SVOC peaks detected		
13.05.2010	24.05.2010 (09.06.2010)	H9	1,2-bis(2,4,6-trichlorophenoxy)ethane	6,900	Potential Prochloraz degradation product
			Prochloraz	9,100	Fungicide
			Unidentified aromatic hydrocarbon containing Cl circa C ₈	9,400	Potential herbicide degradation products. The structures are smaller and less complex than contaminants of concern and will therefore degrade more readily than the target contaminants and will be captured by the remediation process.
			Unidentified aromatic amine containing Cl circa C ₁₁	2,100	
13.05.2010	24.05.2010	I7	No SVOC peaks detected		
			2,4-Dichloro-o-cresol	29,000	

Former Bayer Cropscience Site

Contaminants Not Previously Identified

13.05.2010	24.05.2010 (09.06.2010)	I9	2,3,6-Trichlorotoluene	47,000	Potential herbicide degradation product
			1-(2-Chloroethoxy)-2-(o-Tolyloxy)ethane	20,000	
			Unidentified aromatic alcohol containing Cl circa C ₇	25,000	Potential herbicide degradation products. The structures are smaller and less complex than contaminants of concern and will therefore degrade more readily than the target contaminants and will be captured by the remediation process.
			Unidentified aromatic hydrocarbon containing O circa C ₁₆₋₁₈	12,000	
13.05.2010	24.05.2010	J7	No VOC/SVOC peaks detected		
20.05.2010	24.05.2010	J8	No VOC/SVOC peaks detected		
26.05.2010		J9	No VOC/SVOC peaks detected		
04.06.2010	16.06.2010 (09.06.2010)	H7	Dichloromethyl phenol	2,100	Same as 2,4-Dichloro-o-cresol (I9)
05.05.2010	16.06.2010 (09.06.2010)	K7	1,2-bis(2,4,6-trichlorophenoxy)ethane	2400.0	As for H9
05.05.2010	16.06.2010	K8	No VOC/SVOC peaks detected		
18.06.2010	29.06.2010	I8	2-methyl phenol	5,500	Encountered and assessed during site investigation, not a priority contaminant
			1,2-dichlorobenzene	3,600	Contaminant of concern, already included in the standard validation suite
17.06.2010	29.06.2010 (09.06.2010)	K10	2,4-Dichloro-o-cresol	550,000	As for I9 and H7
22.06.2010		L10	Cyclo octaatomic sulphur	16,000	As for L8 - Sulphur
20.07.2010	21.07.2010	K10 NAPL	Dichloromethyl phenol	1,800,000	As for 2,4-Dichloro-o-cresol (I9, H7, K10)
			Naphthalene	4,600,000	
			2-methylnaphthalene	3,900,000	Encountered and assessed during site investigation, not a priority contaminant
			1-methylnaphthalene CAS 90-12-0	2,400,000	More toxic than 2-methylnaphthalene, must be assessed separately
			Dinoseb CAS 88-85-7	68,000,000	2-(1-methylpropyl)-4,6-dinitro-phenol - herbicide and insecticide. Yellow crystalline solid.
			Dichloromethyl phenol	24,000	As for 2,4-Dichloro-o-cresol (I9, H7, K10)
			1-(2-Chloroethoxy)-2-(o-Tolyloxy)ethane CAS 21120-80-9	13,000	Same as I9

Former Bayer Cropscience Site

Contaminants Not Previously Identified

21.07.2010	22.07.2010	J10	1,2,4-Trichlorobenzene	28,000	Encountered and assessed during site investigation, not a priority contaminant	
			Trichlorobenzene	32,000		
			2-Chlorotoluene	60,000		
			Trichloro toluene isomer	48,000		Same as I9
			Trichloro benzenamine isomer	11,000		
			2,3-Dichlorotoluene CAS 32768-54-0	290,000		Potential herbicide degradation product
21.07.2010	22.07.2010	L11	Dichloromethyl phenol	5,000	As for 2,4-Dichloro-o-cresol (I9, H7, K10, J10)	
28.07.2010	02.08.2010	H10	2,4-Dichloro-o-cresol CAS 1570-65-6	10,000	As for I9, H7, K10, J10, L11	
			Trichloro toluene isomers	58,000	Same as I9, J10	
			Dichlorotoluene isomer	52,000	6 possible isomers, but very little data, using surrogate.	
			2-Chlorotoluene	39,000	Encountered and assessed during site investigation, not a priority contaminant	
			Trichlorobenzene	350,000		
28.07.2010	02.08.2010	I10	2,4-Dichloro-o-cresol CAS 1570-65-6	5,000	As for I9, H7, K10, J10, L11, H10	
			Trichloro toluene isomers	24,000	Same as I9, J10, H10	
03.08.2010	04.08.2010	L12	2,4-Dichloro-o-cresol CAS 1570-65-6	7,000	As for I9, H7, K10, J10, L11, H10, I10	
03.08.2010	04.08.2010	L13	No VOC/SVOC peaks detected			
03.08.2010	04.08.2010	K12	2,4-Dichloro-o-cresol CAS 1570-65-6	7,000	As for I9, H7, K10, J10, L11, H10, I10, L12	
03.08.2010	04.08.2010	K13 sand & gravel	Cyclo octaatomic sulphur	68,000	As for L8, L10 - Sulphur	
05.08.2010	N/A	K13 chalk	2,4-Dichloro-o-cresol CAS 1570-65-6	650,000	As for I9, H7, K10, J10, L11, H10, I10, L12, K12	
			Trichloro toluene isomers	1,140,000	Same as I9, J10, H10, I10	
			1-(2-Chloroethoxy)-2-(o-Tolyloxy) ethane CAS 21120-80-9	140,000	Same as I9 and J10	
			Dichlorotoluene isomer	99,000	Same as J10, H10	

Former Bayer Cropscience Site

Contaminants Not Previously Identified

			2-Chlorotoluene	12,000	Encountered and assessed during site investigation, not a priority contaminant
05.08.2010	N/A	K11	2,4-Dichloro-o-cresol CAS 1570-65-6	22,000	As for I9, H7, K10, J10, L11, H10, I10, L12, K12, K13
05.08.2010	N/A	J11	2,4-Dichloro-o-cresol CAS 1570-65-6	220,000	As for I9, H7, K10, J10, L11, H10, I10, L12, K12, K13
			Trichloro toluene isomers	376,000	Same as I9, J10, H10, I10, K13
			Dinoseb CAS 88-85-7	90,000	Same as K10
			Dichlorotoluene isomer	18,000	Same as H10, K13
			2-Chlorotoluene	13,000	Encountered and assessed during site investigation, not a priority contaminant
12.08.2010	17.08.2010	J12	2-chloro Benzenemethanol CAS 17849-38-6	620	Potential agrochemical synthesis ingredient - further investigation is required
			2-Chlorobenzalazine CAS 5328-80-3	5,900	
			2,4-Dichloro-o-cresol CAS 1570-65-6	2,000	As for I9, H7, K10, J10, L11, H10, I10, L12, K12, K13, J11
			2(1-methylpropyl)-phenol	610	Encountered and assessed during site investigation, not a priority contaminant
12.08.2010	N/A	J13	2,4-Dichloro-o-cresol CAS 1570-65-6	3,400	As for I9, H7, K10, J10, L11, H10, I10, L12, K12, K13, J11, J12
24.08.2010	25.08.2010	J14	Total Petroleum Hydrocarbons (C5-C12)	43,000	Encountered and assessed during site investigation, not a priority contaminant
			1,3,5-Trimethylbenzene CAS 108-67-8	1,600	Encountered and assessed during site investigation, not a priority contaminant
			1,2,4-Trimethylbenzene CAS 95-63-6	600	
			1,2,3-Trimethylbenzene CAS 526-73-8	700	Isomers encountered and assessed during site investigation, quantitative risk assessment not required
			1-Ethyl-2-Methylbenzene CAS 611-14-3	500	Potential agrochemical synthesis ingredient - further investigation is required
25.08.2010	N/A	I13	1-methylnaphthalene CAS 90-12-0	100	Same as K10NAPL

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Contaminants Not Previously Identified

		Phenanthrene	200	Encountered and assessed during site investigation, not a priority contaminant
		Fluoranthene	300	
		Pyrene	300	
		Benzo(b/k)Fluoranthene	200	