Environmental Monitoring Report

Reporting Period
29/11/2010-02/01/2011
Supplemental Report

Former Bayer Crop Science Site
Hauxton
Cambridgeshire

18th January 2011

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APPENDICIES

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 29th of November 2010, until the 2nd of January 2011.

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 38. Week Commencing 29th November 2010

Crushing and screening of the stockpile of broken concrete continued, preventative measures were in place to stop dust arising from this process. Turning and processing of the treatment beds continued with treatment beds being selected for processing depending on their moisture levels and predominant wind direction. No excavations were undertaken due to heavy snow fall on the site and continued inclement weather.

Week 39. Week Commencing 6th December 2010

Crushing and screening of the recent stockpile of broken concrete continued, preventative measures were in place to stop dust arising from this process. Turning and processing of the treatment beds continued with treatment beds being selected for processing depending on their moisture levels and predominant wind direction. No excavations were undertaken due to unfavourable predominant wind direction. Braking out concrete was undertaken in I7, the hard materials were added to the concrete crush stockpile to be processed. Spent mushroom compost was added to a number of treatment beds to aid in the biodegradation of contaminants and maintain the heat within the treatment beds.

Week 40. Week Commencing 13th December 2010

Excavation of contaminated made ground was undertaken in grid squares D14, D15 and E14, this material was formed in to treatment windrows adjacent to the excavation, this material was non odorous and did not require covering. Crushing of broken concrete continued, the crushing plant was demobilised at the end of the week. Spent mushroom compost was added to a number of treatment beds to aid in the biodegradation of contaminants and maintain the heat within the treatment beds. Ten loads of made ground with asbestos containing material was exported from site under controlled conditions, this material was regarded as being untreatable and was disposed of at a licensed off site facility.

Week 41. Week Commencing 20th December 2010

No works on site due to heavy snow fall.

Week 42. Week Commencing 27th December 2010

No works on site.

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 finding 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.

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 not detected by the PID (Limit of detection of 0.1ppm) beyond the site boundary.

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 28/10/2010 and 25/11/2010, and 25/11/2010 and 21/12/2010 are reported in appendix C. The analysis of both monitoring periods indicates that the majority of the VOC's detected are around the baseline, except for Tetrachloroethylene and Toluene which is on occasion slightly raised above the baseline values but are well below the levels considered to be within acceptable limits for published criteria.

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 due to the significant amount of snow fall during the reporting period this has prevented real-time dust monitoring on a number of days and data is missing from the environmental monitoring spreadsheet for this reason. Dust migration is however less likely in wet weather conditions.

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 99.70µg/m^3, the average PM10 dust reading around the site is 53.52µg/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 26/11/2010 to 10/12/2010 (6 locations monitored) recorded a maximum dust deposition rate was 0.50%EAC at the west and east monitoring locations. All other locations had a maximum dust deposition rate of 0.43%EAC, or less.

Dust monitoring undertaken from the 10/12/2010 to 21/12/2010 (6 locations monitored) recorded a maximum dust deposition rate was 0.58%EAC at the west and south monitoring locations. All other locations had a maximum dust deposition rate of 0.50%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 65dB. 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 some minor change in levels along the Riddy Brook due which could be an effect of the recent freezing and thawing conditions.

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 November 2010 and samples taken on 22nd December 2010 are presented in Appendix F.

The surface water analysis of the 26th November 2010 shows traces of Trichloroethylene (4 µg/l), Cis1,2-Dichloroethylene (3 µg/l), Mecoprop (0.4 µg/l), Dichloroprop (0.2 µg/l), and Dicamba (0.2 µg/l) and Ethofumesate (0.2 µg/l) were detected in the downstream samples of the 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.

The surface water analysis of the 22nd December 2010 shows traces of Tetrachloroethylene (1 µg/l) present in both the Riddy Brook upstream and downstream samples and the River Cam

downstream sample, Trichloroethylene (3 µg/l) and Cis1,2-Dichloroethylene (2 µg/l), were also detected in the downstream samples of the Riddy Brook. These trace levels 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_131, D907_132, and D907_133 (Appendix G) illustrate the weekly groundwater levels for the reported period.

The three 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 November 2010 and samples taken on 22nd December 2010 are presented in Appendix F.

The contaminant concentrations present in the samples taken on the 26th of November and 22nd of December 2010 are similar to the baseline data collected during the summer of 2008, but there appears to be gradual reduction in concentration of the main contaminants in the groundwater samples.

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 02/01/2011, sixty nine 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. Thirty two characterisation samples analysed contained a total of twenty one 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 contaminates in accordance with condition 9, Planning Condition Document ref:S/2307/06/f Issued 10/02/2010.

Appendix A

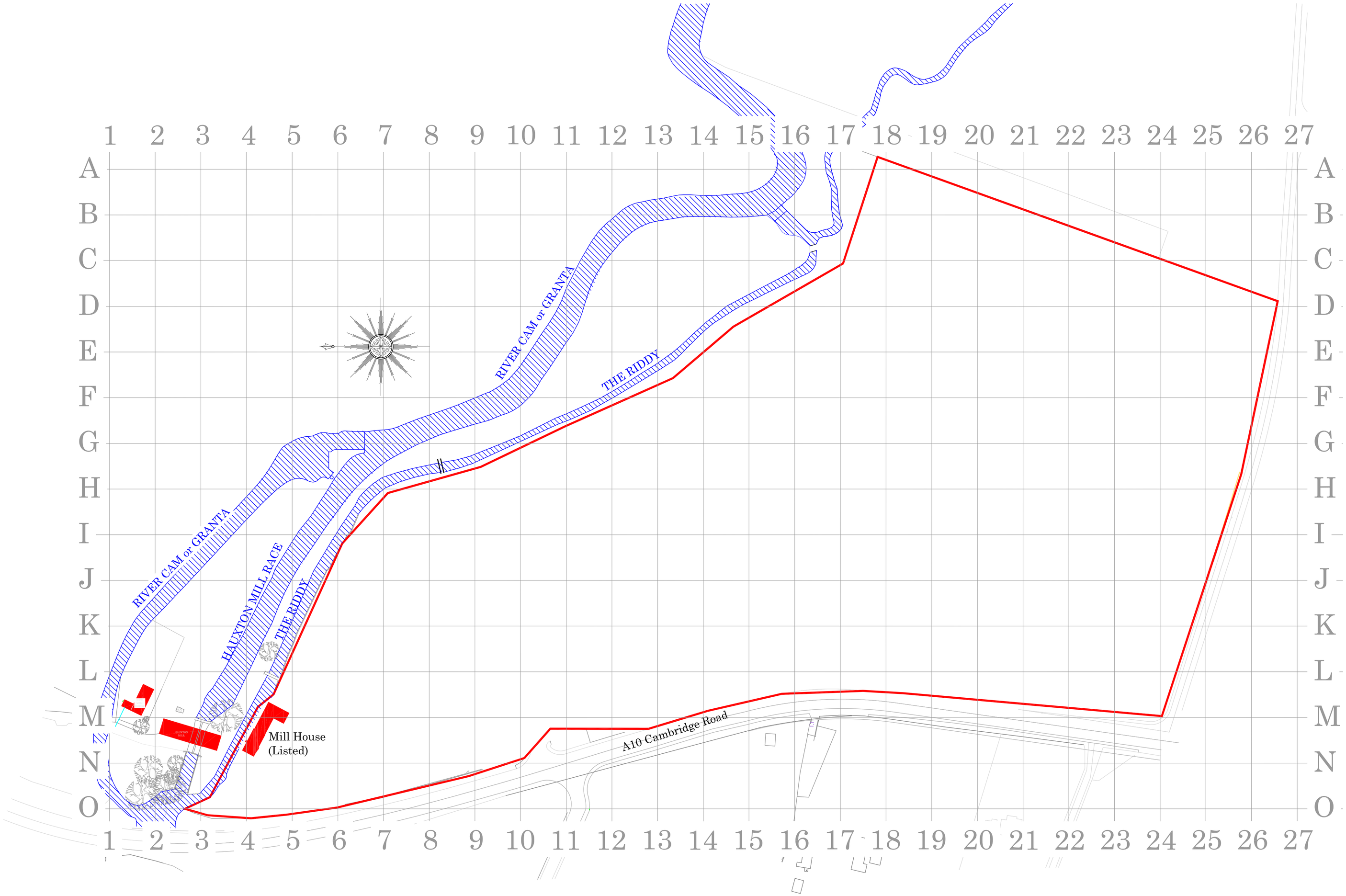
Drawings

A1

Legend

- Buildings to Remain
- Water Course
- Site Boundary

Drawing Base : Ref
LW/HAUX-002/2006



Rev.	Description	Revised By	Date
	FIRST ISSUE		21 April 2008

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Site Address:

Bayer Site
Hauxton
Cambridge

Rev:

Title: Blank Site Plan with Grid

Client: Harrow Estates

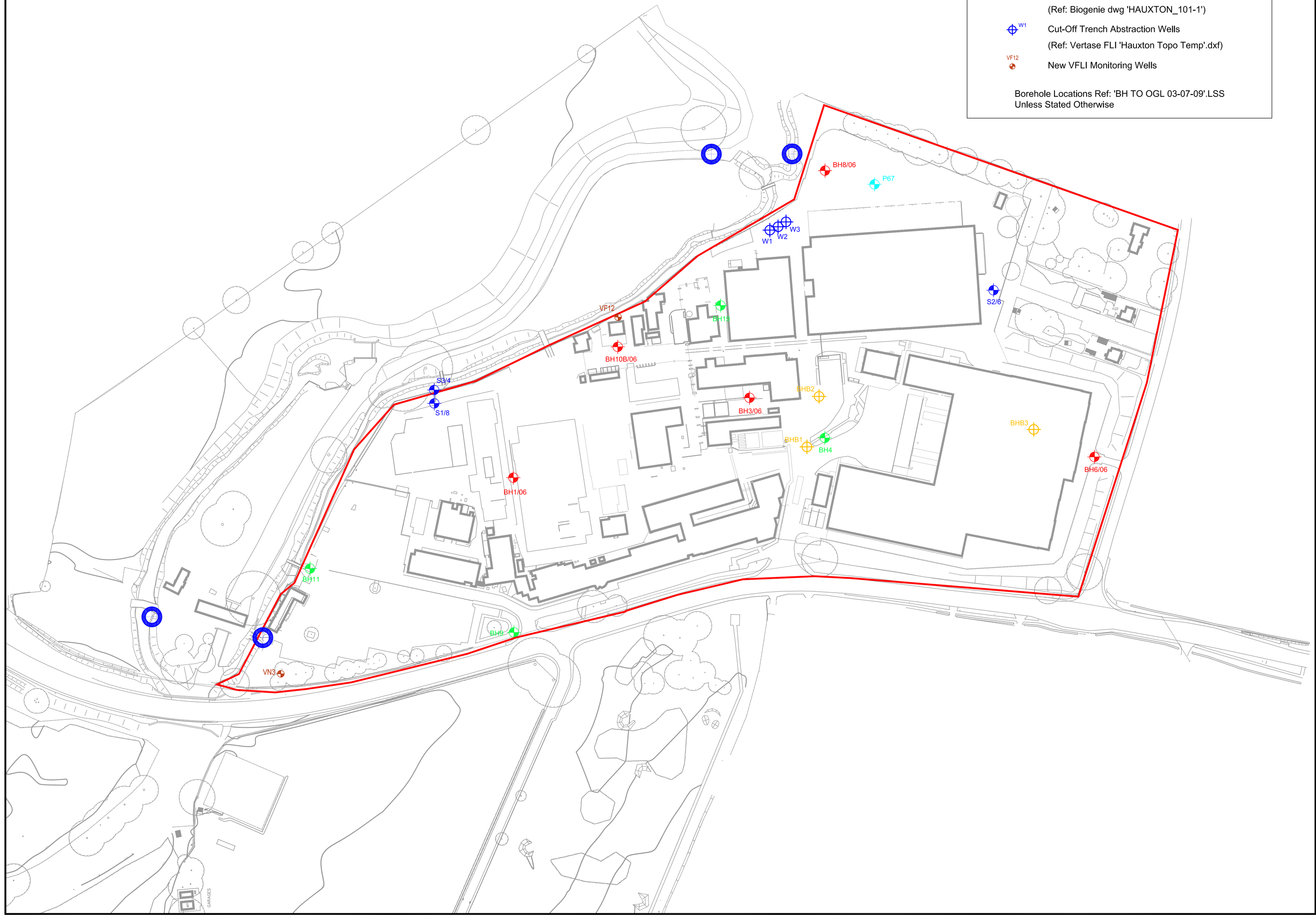
Drawn: JWH	Checked: MA	Approved: MA
Dwg: D907_07	Contract: 907BRI	Scale: 1:1000

A1

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)
- VF12 — New VFLI Monitoring Wells

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



Rev.	Description	Revised By	Date
F	VF12 & VN3 Added	MRG	10-01-11
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

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Site Address:
Bayer Site
Hauxton
Cambridge

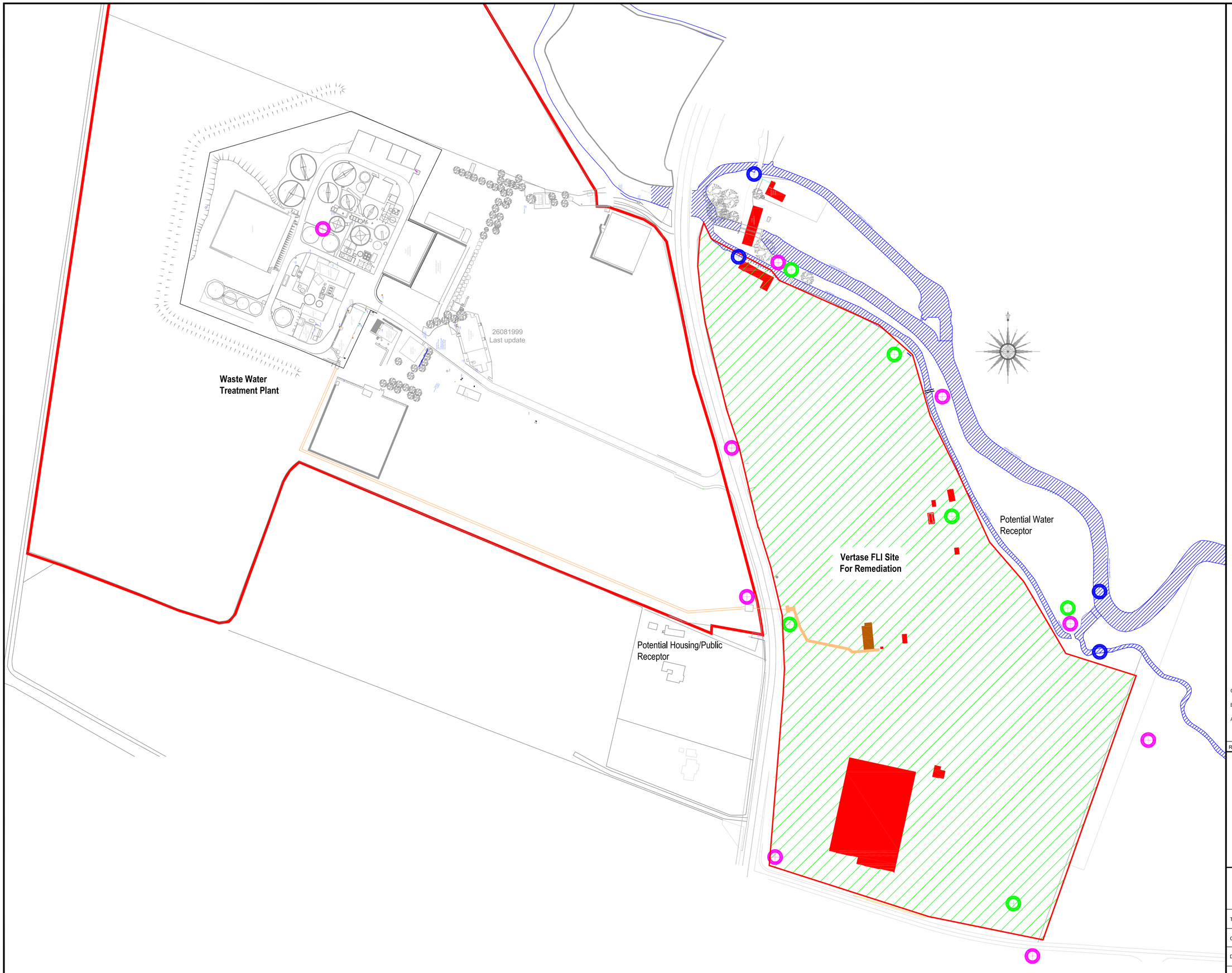
Rev: F

Title: Retained Boreholes for Monitoring & Reference

Client: Harrow Estates

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

A1



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

Rev.	Description	Revised By	Date
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	JWH	15 May 2008
	FIRST ISSUE		21 April 2008

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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
Dwg: D907_33	Contract: 907BRI	Scale: 1:1250

Appendix B

Environmental Monitoring Data

						ODOUR					DUST		NOISE	LITTER		RIDDY BROOK				METEOROLOGICAL AND ENVIRONMENTAL CONDITIONS						
Assessor	Date	Daily Activity	Boundary	Start Time	Finish Time	Detectability (Yes or No)	Intensity (1 to 9)	Quality (Description)	Hedonic Tone (-3 to+3)	Location Sensitivity (1 to 5)	Odour Source (1 to 5)	PID (ppm)	TSP	PM10	Average (dBa)	Present (Description)	Materials attracting scavengers	Inspection	Water Level (mAOD)	Complaints	Action Required	Wind Speed (1 to 8)	Wind Direction	Air Temp (C)	Description (Rain, Sun)	Cloud Cover (0 to 8)	Ground Conditions (Wet, dry)	General Notes
D Holman	29/11/2010	excavating in grids/bed turning/concrete crushing	N	9.42	9.47	y	2	vegetation	0	2	5	0	160.7	140.3	68	no	no	Clear	9.219						snow flurry's	8	wet, snowy	
D Holman	29/11/2010	excavating in grids/bed turning/concrete crushing	NE	9.38	9.41	y	1	vegetation	0	2	5	0	177.4	163.6	56	no	no	Clear											
D Holman	29/11/2010	excavating in grids/bed turning/concrete crushing	NE1	9.38	9.38	y						0	206.1	140.2	62	no	no	Clear											
D Holman	29/11/2010	excavating in grids/bed turning/concrete crushing	E	9.24	9.29	y	2	vegetation	0	2	5	0	59.7	32.7	62	no	no	Clear	9.649										
D Holman	29/11/2010	excavating in grids/bed turning/concrete crushing	SE	9.18	9.23	y				3		0	155.7	35.3	56	no	no												
D Holman	29/11/2010	excavating in grids/bed turning/concrete crushing	S	9.12	9.17	n				3		0	155.7	35.3	62	no	no												
D Holman	29/11/2010	excavating in grids/bed turning/concrete crushing	SW	9.06	9.11	y	1	vegetation	0	4	5	0			75	no	no												
D Holman	29/11/2010	excavating in grids/bed turning/concrete crushing	W	9.00	9.05	y	1	vegetation	0	4	5	0	270.1	98.4	83	no	no												
D Holman	29/11/2010	excavating in grids/bed turning/concrete crushing	NW	9.48	9.53	y	2	vegetation and exhaust fumes	0	2	5	0			79	no	no												
D Holman	29/11/2010	bed turning/concrete crushing	N	17.12	17.17	y	1	vegetation	0	2	5	0	46.5	40.1	57	no	no	Clear	9.219			3	nw	2	overcast	8	damp/snowy	moderate solvent/earth at southern emergency exit 3/9 0.0ppm
D Holman	29/11/2010	bed turning/concrete crushing	NE	17.06	17.11	y	1	vegetation	0	2	5	0	127.3	47.3	58	no	no	Clear											
D Holman	29/11/2010	bed turning/concrete crushing	NE1	17.00	17.05	n						0	15	9.4	62	no	no	Clear											
D Holman	29/11/2010	bed turning/concrete crushing	E	16.54	16.59	y	1	vegetation	0	2	5	0	27.1	6.8	62	no	no	Clear	9.649										
D Holman	29/11/2010	bed turning/concrete crushing	SE	16.48	16.53	y	1	vegetation	0	3	5	0			55	no	no												
D Holman	29/11/2010	bed turning/concrete crushing	S	16.42	16.47	y	1	vegetation	0	3	5	0	56.5	28.4	63	no	no												
D Holman	29/11/2010	bed turning/concrete crushing	SW	16.36	16.41	y	2	earthy chemical and vegetation	0	4	5	0			73	no	no												
D Holman	29/11/2010	bed turning/concrete crushing	W	16.30	16.35	n				4		0	14.4	7.5	78	no	no												
D Holman	29/11/2010	bed turning/concrete crushing	NW	17.18	17.23	y	2	exhaust fumes and vegetation	0	2	5	0			79	no	no												
D Holman	30/11/2010	excavating in grids/bed turning/concrete crushing	N	10.12	10.17	n				2		0	23.5	13.4	57	no	no	Clear	9.219			5	NE	3	cloudy	6	wet snowy	
D Holman	30/11/2010	excavating in grids/bed turning/concrete crushing	NE	10.06	10.11	n				2		0	48.4	27	56	no	no	Clear											
D Holman	30/11/2010	excavating in grids/bed turning/concrete crushing	NE1	10.00	10.05	n							35.2	12.3				Clear											
D Holman	30/11/2010	excavating in grids/bed turning/concrete crushing	E	9.54	9.59	y	2	vegetation	0	2	5	0	42.7	30.5	64	no	no	Clear	9.659										
D Holman	30/11/2010	excavating in grids/bed turning/concrete crushing	SE	9.48	9.53	y	2	vegetation	0	3	5	0			57	no	no												
D Holman	30/11/2010	excavating in grids/bed turning/concrete crushing	S	9.42	9.47	n				3		0	76.3	22.9	63	no	no												
D Holman	30/11/2010	excavating in grids/bed turning/concrete crushing	SW	9.36	9.41	y	2	solvent and earth	0	4	5	0			73	no	no												
D Holman	30/11/2010	excavating in grids/bed turning/concrete crushing	W	9.30	9.35	y	1	vegetation	0	4	5	0	17.7	5.5	78	no	no												
D Holman	30/11/2010	excavating in grids/bed turning/concrete crushing	NW	10.18	10.23	y	1	vegetation	0	2	5	0			79	no	no												
D Holman	30/11/2010	excavating in grids/bed turning/concrete crushing	N	17.42	17.47	n				2		0			56	no	no	Clear	9.219			3	nne	-0.6	clear	1	damp	
D Holman	30/11/2010	excavating in grids/bed turning/concrete crushing	NE	17.36	17.41	n				2		0			57	no	no	Clear											
D Holman	30/11/2010	excavating in grids/bed turning/concrete crushing	NE1	17.30	17.35	n												Clear											
D Holman	30/11/2010	excavating in grids/bed turning/concrete crushing	E	17.24	17.29	y	1	vegetation	0	2	5	0			55	no	no	Clear	9.659										
D Holman	30/11/2010	excavating in grids/bed turning/concrete crushing	SE	17.18	17.23	y	2	vegetation	0	3	5	0			54	no	no												
D Holman	30/11/2010	excavating in grids/bed turning/concrete crushing	S	17.12	17.17	n				3		0			63	no	no												
D Holman	30/11/2010	excavating in grids/bed turning/concrete crushing	SW	17.06	17.11	y	1	vegetation	0	4	5	0			74	no	no												
D Holman	30/11/2010	excavating in grids/bed turning/concrete crushing	W	17.00	17.05	y	1	vegetation	0	4	5	0			79	no	no												
D Holman	30/11/2010	excavating in grids/bed turning/concrete crushing	NW	17.48	17.53	y	1	vegetation	0	2	5	0			78	no	no												
D Holman	01/12/2010	excavating in grids/bed turning/concrete crushing	N	10.12	10.17	y	2		0	2	5	0	108	51.1	57	no	no	Clear	9.229			5	nne	-1.5	sunny spells	4	damp	
D Holman	01/12/2010	excavating in grids/bed turning/concrete crushing	NE	10.06	10.11	y	1	vegetation	0	2	5	0	191.6	93.6	58	no	no	Clear											
D Holman	01/12/2010	excavating in grids/bed turning/concrete crushing	NE1	10.00	10.05	n						0	131.6	121.8				Clear											
D Holman	01/12/2010	excavating in grids/bed turning/concrete crushing	E	9.54	9.59	y	1	vegetation	0	2	5	0	128.5	68.6	59	no	no	Clear	9.659										
D Holman	01/12/2010	excavating in grids/bed turning/concrete crushing	SE	9.48	9.53	y	2	vegetation	0	3	5	0			55	no	no												
D Holman	01/12/2010	excavating in grids/bed turning/concrete crushing	S	9.42	9.47	n				3		0	138	96.5	63	no	no												
D Holman	01/12/2010	excavating in grids/bed turning/concrete crushing	SW	9.36	9.41	y	1	earthy solvent and vegetation	0	4	3	0			74	no	no												
D Holman	01/12/2010	excavating in grids/bed turning/concrete crushing	W	9.30	9.35	n				4		0	157.8	70.4	79	no	no												
D Holman	01/12/2010	bed turning/concrete crushing	NW	10.18	10.23	n				2		0			80	no	no												
D Holman	01/12/2010	excavating in grids/bed turning/concrete crushing	N	16.12	16.17	n				2		0			58	no	no	Clear	9.229			0.5	nne	0	misty	8	damp	
D Holman	01/12/2010	excavating in grids/bed turning/concrete crushing	NE	16.06	16.11	y	1	vegetation	0	2	5	0			54	no	no	Clear											
D Holman	01/12/2010	excavating in grids/bed turning/concrete crushing	NE1	16.00	16.05	n						0						Clear											
D Holman	01/12/2010	excavating in grids/bed turning/concrete crushing	E	15.54	15.59	y	2	vegetation	0	2	5	0			57	no	no	Clear	9.659										
D Holman	01/12/2010	excavating in grids/bed turning/concrete crushing	SE	15.48	15.53	y	1	vegetation	0	3	5	0			56	no	no												
D Holman	01/12/2010	excavating in grids/bed turning/concrete crushing	S	15.42	15.47	n				3		0			63	no	no												
D Holman	01/12/2010	excavating in grids/bed turning/concrete crushing	SW	15.36	15.41	y	1	earth and vegetation	0	4	3	0			75	no	no												
D Holman	01/12/2010	excavating in grids/bed turning/concrete crushing	W	15.30	15.35	n				4		0			78	no	no												
D Holman	01/12/2010	excavating in grids/bed turning/concrete crushing	NW	16.18	16.23	y	1	vegetation	0	2	5	0			79	no	no												
D Holman	02/12/2010	bed turning/concrete crushing	N	10.12	10.17	n				2		0			57	no	no	Clear	9.229			5	ne	0.5	snow showers	8	sunny	
D Holman	02/12/2010	bed turning/concrete crushing	NE	10.06	10.11	y	1	vegetation	0	2	5	0			56	no	no	Clear											
D Holman	02/12/2010	bed turning/concrete crushing	NE1	10.00	10.05	n						0						Clear											
D Holman	02/12/2010	bed turning/concrete crushing	E	9.54	9.59	y	2	vegetation	0	2	5	0			59	no	no	Clear	9.659										
D Holman	02/12/2010	bed turning/concrete crushing	SE	9.48	9.53	y	1	vegetation	0	3	5	0			55	no	no												
D Holman	02/12/2010	bed turning/concrete crushing	S	9.42	9.47	n				3		0			62	no	no												
D Holman	02/12/2010	bed turning/concrete crushing	SW	9.36	9.41	y	1	vegetation	0	4	5	0			69	no	no												
D Holman	02/12/2010	bed turning/concrete crushing	W	9.30	9.35	y	1	vegetation	0	4	5	0			79	no	no												
D Holman	02/12/2010	bed turning/concrete crushing	NW	10.18	10.23	n				2		0			78	no	no												
D Holman	02/12/2010	excavating in grids/bed turning/concrete crushing	N	17.42	17.47	n				2		0			58	no	no	Clear	9.229			2	ne	-1	cold cloudy snow shoti	8	damp	
D Holman	02/12/2010	excavating in grids/bed turning/concrete crushing	NE	17.36	17.41	n				2		0			58	no	no	Clear											
D Holman	02/12/2010	excavating in grids/bed turning/concrete crushing	NE1	17.30	17.35	n						0						Clear											
D Holman	02/12/2010	excavating in grids/bed turning/concrete crushing	E	17.24	17.29	y	1	vegetation	0	2	5	0			56	no	no	Clear	9.659										
D Holman	02/12/2010	excavating in grids/bed turning/concrete crushing	SE	17.18	17.23	n				3		0			54	no	no												
D Holman	02/12/2010	excavating in grids/bed turning/concrete crushing	S	17.12	17.17	n				3		0			64	no	no												
D Holman	02/12/2010	excavating in grids/bed turning/concrete crushing	SW	17.06	17.11	y	1	vegetation and earth	0	4	5	0			75	no	no												
D Holman	02/12/2010	excavating in grids/bed turning/concrete crushing	W	17.00	17.05	y	1	vegetation	0	4	5	0			80	no	no												
D Holman	02/12/2010	excavating in grids/bed turning/concrete crushing	NW	17.48	17.53	y	1	vegetation	0	2	5	0			80	no	no												
D Holman	03/12/2010	bed turning/concrete crushing	N	10.12	10.17	n				2		0			58	no	no	Clear	9.219			0.5	w	-1	foggy	8	damp frozen	
D Holman	03/12/2010	bed turning/concrete crushing	NE	10.06	10.11	y	2	vegetation	0	2	5	0			58	no	no	Clear											
D Holman	03/12/2010	bed turning/concrete crushing	NE1	10.00	10.05	n						0						Clear											
D Holman	03/12/2010	bed turning/concrete crushing	E	9.54	9.59	y	1	vegetation	0	2	5	0			56	no	no	Clear	9.659										
D Holman	03/12/2010	bed turning/concrete crushing	SE	9.48	9.53	n				3		0			64	no	no												
D Holman	03/12/2010	bed turning/concrete crushing	S	9.42	9.47	n				3		0			63	no	no												
D Holman	03/12/2010	bed turning/concrete crushing	SW	9.36	9.41	y	1	vegetation	0	4	5	0			74	no	no												
D Holman	03/12/2010	bed turning/concrete crushing	W	9.30	9.35	y	1	vegetation	0	4	5	0			79	no	no												
D Holman	03/12/2010	bed turning/concrete crushing	NW	10.18	10.23	n				2		0			79	no	no												
D Holman	03/12/2010	excavating in grids/bed turning/concrete crushing	N	13.48	13.53	y	1	vegetation	0	2	5	0			59	no	no	Clear	9.219			0.5	sw	1.2	cloudy	8	frozen	
D Holman	03/12/2010	excavating in grids/bed turning/concrete crushing	NE	13.36	13.41	y	2	vegetation	0	2	5	0			57	no	no	Clear											
D Holman	03/12/2010	excavating in grids/bed turning/concrete crushing	NE1	13.30	13.35	n						0						Clear											
D Holman	03/12/2010	excavating in grids/bed turning/concrete crushing	E	13.24	13.29	y	1	vegetation	0	2	5	0			55	no	no	Clear	9.659										
D Holman	03/12/2010	excavating in grids/bed turning/concrete crushing	SE	13.18	13.23	y	1	vegetation	0	3	5	0			54	no	no												
D Holman	03/12/2010	excavating in grids/bed turning/concrete crushing	S	13.12	13.17	n				3		0			66	no	no												
D Holman	03/12/2010	excavating in grids/bed turning/concrete crushing	SW	13.06	13.11	n				4		0			75	no	no												
D Holman	03/12/2010	excavating in grids/bed turning/concrete crushing	W	13.00	13.05	y	1	vegetation	0	4	5	0			79	no	no												
D Holman	03/12/2010	excavating in grids/bed turning/concrete crushing	NW	13.48	13.53	y	1	vegetation	0	2	5	0			78	no	no												
D Holman	06/12/2010	bed turning/concrete crushing	N	10.42	10.47	n				2		0	127.1	74.8	57	no	no	Clear	9.209			4.5	sw	1.2	cloudy	8	frozen	
D Holman	06/12/2010	bed turning/concrete crushing	NE	10.36	10.41	n				2		0	266.3	122.3	53	no	no	Clear											
D Holman	06/12/2010	bed turning/concrete crushing	NE1	10.30	10.35	n						0	211.7	155.8				Clear											
D Holman	06/12/2010	bed turning/concrete crushing	E	10.24	10.29	y	1	earth/concrete and vegetation	0	2	3	0	380.5	134.5	63	no	no	Clear	9.659										
D Holman	06/12/2010	bed turning/concrete crushing	SE	10.18	10.23	y	2	vegetation	0	3	5	0			47	no	no												
D Holman	06/12/2010	bed turning/concrete crushing	S	10.12	10.17	y	1	vegetation	0	3	5	0	81.4	19	63	no	no												
D Holman	06/12/2010	bed turning/concrete crushing	SW	10.06	10.11	y	1	vegetation	0	4	5	0			75	no	no												
D Holman	06/12/2010	bed turning/concrete crushing	W	10.00	10.05	y	1	vegetation	0	4	5	0	102.8	97	78	no	no												
D Holman	06/12/2010	bed turning/concrete crushing	NW	10.48	10.53	y	1	vegetation	0	2	5	0			80	no	no												
D Holman	06/12/2010	bed turning/concrete crushing	N	17.42	17.47	n				2		0			59	no	no	Clear	9.209			0	w	-2	foggy	8	damp	
D Holman	06/12/2010	bed turning/concrete crushing	NE	17.36	17.41	n				2		0			58	no	no	Clear											
D Holman	06/12/2010	bed turning/concrete crushing	NE1	17.30	17.35	n						0						Clear											
D Holman	06/12/2010	bed turning/concrete crushing	E	17.24	17.29	y	1	vegetation	0	2	5	0			58	no	no	Clear	9.659										
D Holman	06/12/2010	bed turning/concrete crushing	SE	17.18	17.23	y	1	vegetation	0	3	5	0			56	no	no												
D Holman	06/12/2010	bed turning/concrete crushing	S	17.12	17.17	n				3		0			63	no	no												
D Holman	06/12/2010	bed turning/concrete crushing	SW	17.06	17.11	y	1	vegetation	0	4	5	0			74	no	no												
D Holman	06/12/2010	bed turning/concrete crushing	W	17.00	17.05	n				4		0			78	no	no												
D Holman	06/12/2010	bed turning/concrete crushing	NW	17.48	17.53	y	1	vegetation	0	2	5	0			79	no	no												
D Holman	07/12/2010	bed turning/concrete crushing	N	10.12	10.17	n				2		0			58	no	no	Clear	9.209			0	w	-5	cold misty	8	frozen	
D Holman	07/12/2010	bed turning/concrete crushing	NE	10.06	10.11	y	1	earth/vegetation	0	2	5	0			54	no	no	Clear											
D Holman	07/12/2010	bed turning/concrete crushing	NE1	10.00	10.05	n						0						Clear											
D Holman	07/12/2010	bed turning/concrete crushing	E	9.54	9.59	n						0			65	no	no	Clear	9.649										
D Holman	07/12/2010	bed turning/concrete crushing	SE	9.48	9.53	n				3		0			62	no	no												
D Holman	07/12/2010	bed turning/concrete crushing	S	9.42	9.47	n				3		0			63	no	no												
D Holman	07/12/2010	bed turning/concrete crushing	SW	9.36	9.41	n				4		0			75	no	no												
D Holman	07/12/2010	bed turning/concrete crushing	W	9.30	9.35	n				4		0			79	no	no												
D Holman	07/12/2010	bed turning/concrete crushing	NW	10.18	10.23	n				2		0			79	no	no												
D Holman	07/12/2010	excavating in grids/bed turning/concrete crushing	N	17.12	17.17	n				2		0			57	no	no	Clear	9.209			0	W	-2	slightly cloudy	3	dry	slight solvent/earth smell present around S emergency exit 1/9 0.0ppn
D Holman	07/12/2010	excavating in grids/bed turning/concrete crushing	NE	17.06	17.11	y	1	vegetation	0	2	5	0			58	no	no	Clear											
D Holman	07/12/2010	excavating in grids/bed turning/concrete crushing	NE1	17.00	17.05	n						0						Clear											
D Holman	07/12/2010	excavating in grids/bed turning/concrete crushing	E	16.54	16.59	y	1	vegetation	0	2	5	0			64	no	no	Clear	9.649										
D Holman	07/12/2010	excavating in grids/bed turning/concrete crushing	SE	16.48	16.53	y	1	vegetation	0	3	5	0			61	no	no												
D Holman	07/12/2010	excavating in grids/bed turning/concrete crushing	S	16.42	16.47	n				3		0			64	no	no												
D Holman	07/12/2010	excavating in grids/bed turning/concrete crushing	SW	16.36	16.41	n				4		0			74	no	no												
D Holman	07/12/2010	excavating in grids/bed turning/concrete crushing	W	16.30	16.35	y	1	vegetation	0	4	5	0			79	no	no												
D Holman	07/12/2010	excavating in grids/bed turning/concrete crushing	NW	17.18	17.23	y	1	vegetation	0	2	5	0			80	no	no												
D Holman	08/12/2010	excavating in grids/bed turning/concrete crushing	N	10.12	10.17	n				2		0	121.7	69.8	58	no	no	Clear	9.209			3	WNW	1	overcast	8	dry	
D Holman	08/12/2010	excavating in grids/bed turning/concrete crushing	NE	10.06	10.11	y	1	vegetation	0	2	5	0	248.7	167.7	57	no	no	Clear											
D Holman	08/12/2010	excavating in grids/bed turning/concrete crushing	NE1	10.00	10.05	n						0	246.6	211.4				Clear											
D Holman	08/12/2010	excavating in grids/bed turning/concrete crushing	E	9.54	9.59	y	1	vegetation	0	2	5	0	151.3	70.6	59	no	no	Clear	9.649										
D Holman	08/12/2010	excavating in grids/bed turning/concrete crushing	SE	9.48	9.53	n				3		0			55	no	no												
D Holman	08/12/2010	excavating in grids/bed turning/concrete crushing	S	9.42	9.47	n				3		0	68.9	33.8	64	no	no												
D Holman	08/12/2010	excavating in grids/bed turning/concrete crushing	SW	9.36	9.41	y	1	solvent/earth and vegetation	0	4	5	0			76	no	no												
D Holman	08/12/2010	excavating in grids/bed turning/concrete crushing	W	9.30	9.35	y	1	exhaust fumes and vegetation	0	4	5	0	91.1	76.2	80	no	no												
D Holman	08/12/2010	excavating in grids/bed turning/concrete crushing	NW	10.18	10.23	n				2		0			79	no	no												
D Holman	08/12/2010	bed turning/concrete crushing	N	17.42	17.47	n				2		0			58	no	no	Clear	9.209			4	W	0.5	cold clear	3	damp	
D Holman	08/12/2010	bed turning/concrete crushing	NE	17.36	17.41	y	1	vegetation	0	2	5	0			56	no	no	Clear											
D Holman	08/12/2010	bed turning/concrete crushing	NE1	17.30	17.35	n						0						Clear											
D Holman	08/12/2010	bed turning/concrete crushing	E	17.24	17.29	y	1	vegetation	0	2	5	0			62	no	no	Clear	9.649										
D Holman	08/12/2010	bed turning/concrete crushing	SE	17.18	17.23	n				3		0			59	no	no												
D Holman	08/12/2010	bed turning/concrete crushing	S	17.12	17.17	y	1	vegetation	0	3	5	0			63	no	no												
D Holman	08/12/2010	excavating in grids/bed turning/concrete crushing	SW	17.06	17.11	y	1	vegetation and sweet/earth	0	4	5	0			74	no	no												
D Holman	08/12/2010	bed turning/concrete crushing	W	17.00	17.05	n				4		0			80	no	no												
D Holman	08/12/2010	bed turning/concrete crushing	NW	17.48	17.53	n				2		0			79	no	no												
D Holman	09/12/2010	bed turning/concrete crushing	N	10.12	10.17	n				2		0	60.8	15	54	no	no	clear	9.209				WNW	4.5	sunny	1	dry	

D Holman	09/12/2010	bed turning/concrete crushing	NE	10.08	10.11	y	1	chemical and earth and vegetation	0	2	3	0	56.1	21.4	55	no	no	clear																	
D Holman	09/12/2010	bed turning/concrete crushing	NE1	10.00	10.05	y						0	149.7	0				clear																	
D Holman	09/12/2010	bed turning/concrete crushing	E	9.54	9.59	y	2	chemical and earth	0	2	3	0	68.5	33.1	63	no	no	clear	9.649																	
D Holman	09/12/2010	bed turning/concrete crushing	SE	9.48	9.53	n				2		0			61	no	no																				
D Holman	09/12/2010	bed turning/concrete crushing	S	9.42	9.47	n				3		0	139.8	15.4	62	no	no																				
D Holman	09/12/2010	bed turning/concrete crushing	SW	9.36	9.41	n				4		0			74	no	no																				
D Holman	09/12/2010	bed turning/concrete crushing	W	9.30	9.35	y	1	vegetation	0	4	3	0	59.8	13.5	78	no	no																				
D Holman	09/12/2010	bed turning/concrete crushing	NW	10.18	10.23	n				2		0			79	no	no																				
D Holman	09/12/2010	bed turning/concrete crushing	N	15.42	15.47	n				2		0			85	no	no	clear	9.209																		
D Holman	09/12/2010	bed turning/concrete crushing	NE	15.36	15.41	y	1	vegetation	0	2	3	0			53	no	no	clear																				
D Holman	09/12/2010	bed turning/concrete crushing	NE1	15.30	15.35	n						0						clear																				
D Holman	09/12/2010	bed turning/concrete crushing	E	15.24	15.29	y	2	vegetation	0	2	3	0			61	no	no	clear	9.649																			
D Holman	09/12/2010	bed turning/concrete crushing	SE	15.18	15.23	n				3		0			57	no	no																				
D Holman	09/12/2010	bed turning/concrete crushing	S	15.12	15.17	n				3		0			63	no	no																				
D Holman	09/12/2010	bed turning/concrete crushing	SW	15.06	15.11	n				4		0			74	no	no																				
D Holman	09/12/2010	bed turning/concrete crushing	W	15.00	15.05	y	1	vegetation	0	4	3	0			79	no	no																				
D Holman	09/12/2010	bed turning/concrete crushing	NW	15.48	15.53	y	1	vegetation	0	2	3	0			79	no	no																				
I Stephenson	10/12/2010	bed turning TB 113 114 116	N	10.13	10.18	n				2		0	83	72	61.4	no	no	clear	9.209	no	no																
I Stephenson	10/12/2010	bed turning TB 113 114 116	NE	10.07	10.12	n						0	56	19	54.9	no	no	clear		no	no																
I Stephenson	10/12/2010	bed turning TB 113 114 116	NE1	10.01	10.06								154	94				clear		no	no															
I Stephenson	10/12/2010	bed turning TB 113 114 116	E	9.55	10.00	y				2		0	138	64	58.7	no	no	clear	9.649	no	no															
I Stephenson	10/12/2010	bed turning TB 113 114 116	SE	9.49	9.54	y	4	chlorinated chemicals	-1	3	5	0			67.2	no	no			no	no															
I Stephenson	10/12/2010	bed turning TB 113 114 116	S	9.43	9.48	n				3		0	108	82	64.3	no	no			no	no															
I Stephenson	10/12/2010	bed turning TB 113 114 116	SW	9.37	9.42	n				4		0			68.2	no	no			no	no															
I Stephenson	10/12/2010	bed turning TB 113 114 116	W	9.31	9.36	n				4		0	136	54	71.4	no	no			no	no															
I Stephenson	10/12/2010	bed turning TB 113 114 116	NW	10.19	10.24	y	3	road fumes and wet asphalt	-1	2	4	0			74.9	no	no			no	no															
D Holman	10/12/2010	bed turning/screening concrete	N	16.42	16.47	n				2		0	58.3	18.1	53	no	no	clear	9.209			2	wsw	6	clear		3	damp								
D Holman	10/12/2010	bed turning/screening concrete	NE	16.36	16.41	y	1	vegetation	0	2	5	0	46.2	31.6	57	no	no	clear																			
D Holman	10/12/2010	bed turning/screening concrete	NE1	16.30	16.35	n						0	137.8	96.8				clear																			
D Holman	10/12/2010	bed turning/screening concrete	E	16.24	16.29	y	1	vegetation and earth	0	2	3	0	63.7	43.2	59	no	no	clear	9.649																		
D Holman	10/12/2010	bed turning/screening concrete	SE	16.18	16.23	n				3		0			54	no	no																				
D Holman	10/12/2010	bed turning/screening concrete	S	16.12	16.17	n				3		0	59.1	47.6	65	no	no																				
D Holman	10/12/2010	bed turning/screening concrete	SW	16.06	16.11	y	1	vegetation	0	4	5	0			75	no	no																				
D Holman	10/12/2010	bed turning/screening concrete	W	16.00	16.05	n				4		0	51.3	29.5	79	no	no																				
D Holman	10/12/2010	bed turning/screening concrete	NW	16.48	16.53	n				2		0			79	no	no																				
D Holman	13/12/2010	excavation in grids/bed turning	N	10.12	10.17	y	1	vegetation	0	2	3	0			66	no	no	clear	9.209			0.5	s	-1	misty damp	8	damp	slight odour between SE and E chlorine type smell 2/3 0.0ppm								
D Holman	13/12/2010	excavation in grids/bed turning	NE	10.06	10.11	n				2		0			57	no	no	clear																				
D Holman	13/12/2010	excavation in grids/bed turning	NE1	10.00	10.05													clear																			
D Holman	13/12/2010	excavation in grids/bed turning	E	9.54	9.59	y	1	chlorine and vegetation	0	2	3	0			58	no	no	clear	9.649																		
D Holman	13/12/2010	excavation in grids/bed turning	SE	9.48	9.53	y	2	vegetation	0	3	3	0			55	no	no																				
D Holman	13/12/2010	excavation in grids/bed turning	S	9.42	9.47	n	3	vegetation	0	3	3	0			63	no	no																				
D Holman	13/12/2010	excavation in grids/bed turning	SW	9.36	9.41	y	1	vegetation	0	4	3	0			75	no	no																				
D Holman	13/12/2010	excavation in grids/bed turning	W	9.30	9.35	y	2	vegetation	0	4	3	0			80	no	no																				
D Holman	13/12/2010	excavation in grids/bed turning	NW	10.18	10.23	y	2	vegetation	0	2	3	0			79	no	no																				
D Holman	13/12/2010	excavation in grids/bed turning	N	17.12	17.17	y	1	vegetation	0	2	3	0			58	no	no	clear	9.209			1	wnw	2	cloudy and slightly mis	8	damp										
D Holman	13/12/2010	excavation in grids/bed turning	NE	17.06	17.11	y	2	vegetation	0	2	3	0			56	no	no	clear																			
D Holman	13/12/2010	excavation in grids/bed turning	NE1	17.00	17.05													clear																			
D Holman	13/12/2010	excavation in grids/bed turning	E	16.54	16.59	y	1	vegetation	0	2	3	0			55	no	no	clear	9.649																		
D Holman	13/12/2010	excavation in grids/bed turning	SE	16.48	16.53	y	1	vegetation and chlorine	0	3	3	0			53	no	no																				
D Holman	13/12/2010	excavation in grids/bed turning	S	16.42	16.47	y	1	chlorine and vegetation	0	3	2	0			64	no	no																				
D Holman	13/12/2010	excavation in grids/bed turning	SW	16.36	16.41	y	1	vegetation	0	4	3	0			74	no	no																				
D Holman	13/12/2010	excavation in grids/bed turning	W	16.30	16.35	y	1	vegetation	0	4	3	0			79	no	no																				
D Holman	13/12/2010	excavation in grids/bed turning	NW	17.18	17.23	y	1	vegetation	0	2	3	0			79	no	no																				
D Holman	14/12/2010	excavation in grids/bed turning	N	9.42	9.47	y	2	vegetation	0	2	3	0			56	no	no	clear	9.209			0.5	n	3	overcast	8	damp										
D Holman	14/12/2010	excavation in grids/bed turning	NE	9.36	9.41	y	3	vegetation	0	2	5	0			57	no	no	clear																			
D Holman	14/12/2010	excavation in grids/bed turning	NE1	9.30	9.35													clear																			
D Holman	14/12/2010	excavation in grids/bed turning	E	9.24	9.29	y	1	vegetation	0	2	3	0			58	no	no	clear	9.649																		
D Holman	14/12/2010	excavation in grids/bed turning	SE	9.18	9.23	y	2	vegetation	0	3	3	0			59	no	no																				
D Holman	14/12/2010	excavation in grids/bed turning	S	9.12	9.17	y	1	vegetation	0	3	3	0			62	no	no																				
D Holman	14/12/2010	excavation in grids/bed turning	SW	9.06	9.11	y	1	chemical/earth and vegetation	0	4	3	0			74	no	no																				
D Holman	14/12/2010	excavation in grids/bed turning	W	9.00	9.05	y	2	vegetation and exhaust fumes	0	4	3	0			79	no	no																				
D Holman	14/12/2010	excavation in grids/bed turning	NW	9.48	9.53	y	1	vegetation	0	2	3	0			79	no	no																				
D Holman	14/12/2010	excavating in grids/bed turning/concrete crushing	N	16.12	16.17	y	2	vegetation	0	2	3	0	61	46.9	57	no	no	clear	9.209			0.5	NE	2.5	Clear	2	damp										
D Holman	14/12/2010	excavating in grids/bed turning/concrete crushing	NE	16.06	16.11	y	2	chemical and vegetation	0	2	3	0	202.5	102.7	58	no	no	Clear																			
D Holman	14/12/2010	excavating in grids/bed turning/concrete crushing	NE1	16.00	16.05								149.4	66.7				Clear																			
D Holman	14/12/2010	excavating in grids/bed turning/concrete crushing	E	15.54	15.59	y	1	vegetation	0	2	3	0	162.2	103.6	56	no	no	Clear	9.649																		
D Holman	14/12/2010	excavating in grids/bed turning/concrete crushing	SE	15.48	15.53	y	2	vegetation	0	3	3	0			53	no	no																				
D Holman	14/12/2010	excavating in grids/bed turning/concrete crushing	S	15.42	15.47	y	1	vegetation	0	3	3	0	166.9	83.3	63	no	no																				
D Holman	14/12/2010	excavating in grids/bed turning/concrete crushing	SW	15.36	15.41	y	2	gas type smell	0	4	3	0			73	no	no																				
D Holman	14/12/2010	excavating in grids/bed turning/concrete crushing	W	15.30	15.35	y	3	solvent and chemical	-1	4	5	0	119.3	104.9	79	no	no																				
D Holman	14/12/2010	excavating in grids/bed turning/concrete crushing	NW	16.18	16.23	y	1	vegetation	0	2	3	0			78	no	no																				
D Holman	15/12/2010	excavating in grids/bed turning	N	10.12	10.17	y	1	vegetation	0	2	3	0			58	no	no	Clear	9.209			0.5	WSW	1.5	cloudy damp rain	8	wet										
D Holman	15/12/2010	excavating in grids/bed turning	NE	10.06	10.11	y	2	vegetation	0	2	3	0			56	no	no	Clear																			
D Holman	15/12/2010	excavating in grids/bed turning	NE1	10.00	10.05													Clear																			
D Holman	15/12/2010	excavating in grids/bed turning	E	9.54	9.59	y	1	vegetation	0	2	3	0			59	no	no	Clear	9.649																		
D Holman	15/12/2010	excavating in grids/bed turning	SE	9.48	9.53	y	2	vegetation and solvent	0	3	3	0			63	no	no																				
D Holman	15/12/2010	excavating in grids/bed turning	S	9.42	9.47	y	1	vegetation	0	3	3	0			62	no	no																				
D Holman	15/12/2010	excavating in grids/bed turning	SW	9.36	9.41	n				4		0			76	no	no																				
D Holman	15/12/2010	excavating in grids/bed turning	W	9.30	9.35	y	1	vegetation	0	4	3	0			80	no	no																				
D Holman	15/12/2010	excavating in grids/bed turning	NW	10.18	10.23	y	2	vegetation	0	2	3	0			79	no	no																				
D Holman	15/12/2010	excavating in grids/bed turning/concrete crushing	N	15.42	15.47	y	1	vegetation	0	2	3	0			58	no	no	Clear	9.209			4	nnw	4	rain	8	wet										
D Holman	15/12/2010	excavating in grids/bed turning/concrete crushing	NE	15.36	15.41	y	1	vegetation	0	2	3	0			56	no	no	Clear																			
D Holman	15/12/2010	excavating in grids/bed turning/concrete crushing	NE1	15.30	15.35													Clear																			
D Holman	15/12/2010	excavating in grids/bed turning/concrete crushing	E	15.24	15.29	y	1	vegetation	0	2	3	0			55	no	no	Clear	9.649																		
D Holman	15/12/2010	excavating in grids/bed turning/concrete crushing	SE	15.18	15.23	y	2	vegetation	0	3	3	0			53	no	no																				
D Holman	15/12/2010	excavating in grids/bed turning/concrete crushing	S	15.12	15.17	y	1	vegetation	0	3	3	0			63	no	no																				
D Holman	15/12/2010	excavating in grids/bed turning/concrete crushing	SW	15.06	15.11	y	1	vegetation	0	4	3	0			75	no	no																				
D Holman	15/12/2010	excavating in grids/bed turning/concrete crushing	W	15.00	15.05	y	1	vegetation	0	4	3	0			79	no	no																				
D Holman	15/12/2010	excavating in grids/bed turning/concrete crushing	NW	15.48	15.53	y	1	vegetation	0	2	3	0			79	no	no																				
D Holman	16/12/2010	excavating in grids/bed turning/concrete crushing	N	9.42	9.47	y	1	vegetation	0	2	3	0			58	no	no	Clear	9.209			2	SW	5	rain	8	wet										
D Holman	16/12/2010	excavating in grids/bed turning/concrete crushing	NE	9.36	9.41	y	1	vegetation	0	2	3	0			57	no	no	Clear																			
D Holman	16/12/2010	excavating in grids/bed turning/concrete crushing	NE1	9.30	9.35													Clear																			
D Holman	16/12/2010	excavating in grids/bed turning/concrete crushing	E	9.24	9.29	y	2	solvent and vegetation	0	2	3	0			56	no	no	Clear	9.649																		
D Holman	16/12/2010	excavating in grids/bed turning/concrete crushing	SE	9.18	9.23	y	2	chemical/earth and vegetation	0	3	3	0			57	no	no																				
D Holman	16/12/2010	excavating in grids/bed turning/concrete crushing	S	9.12	9.17	y	1	vegetation	0	3	3	0			62	no	no																				
D Holman	16/12/2010	excavating in grids/bed turning/concrete crushing	SW	9.06	9.11	y	1	vegetation	0	4	3	0			75	no	no																				
D Holman	16/12/2010	excavating in grids/bed turning/concrete crushing	W	9.00	9.05	y	2	vegetation	0	4	3	0			79	no	no																				
D Holman	16/12/2010	excavating in grids/bed turning/concrete crushing	NW	9.48	9.53	y	1	vegetation	0	2	3	0			79	no	no																				
D Holman	16/12/2010	excavating in grids/bed turning/concrete crushing	N	16.12	16.17	y	2	vegetation	0	2	3	0			58	no	no	clear	9.209			2	NNE	2	rain/sleet	8	wet										
D Holman	16/12/2010	excavating in grids/bed turning/concrete crushing	NE	16.06	16.11	y	1	vegetation	0	2	3	0			56	no	no	clear																			
D Holman	16/12/2010	excavating in grids/bed turning/concrete crushing	NE1	16.00	16.05													clear																			
D Holman	16/12/2010	excavating in grids/bed turning/concrete crushing	E	15.54	15.59	y	2	vegetation	0	2	3	0			55	no	no	clear	9.649																		
D Holman	16/12/2010	excavating in grids/bed turning/concrete crushing	SE	15.48	15.53	y	1	vegetation	0	3	3	0			54	no	no																				
D Holman	16/12/2010	excavating in grids/bed turning/concrete crushing	S	15.42	15.47	y	1	vegetation	0	3	3	0			64	no	no																				
D Holman	16/12/2010	excavating in grids/bed turning/concrete crushing	SW	15.36	15.41	y	2	solvent and vegetation	0	4	3	0			78	no	no																				
D Holman	16/12/2010	excavating in grids/bed turning/concrete crushing	W	15.30	15.35	y	1	vegetation	0	4	3	0			79	no	no																				
D Holman	16/12/2010	excavating in grids/bed turning/concrete crushing	NW	16.18	16.23	y	1	vegetation	0	2	3	0			80	no	no																				
D Holman	17/12/2010	excavating in grids/bed turning	N	10.12	10.17	y	1	vegetation	0	2	3	0	21.4	16.5	58	no	no	clear	9.209			0.5	WSW	-3	overcast	8	frozen										
D Holman	17/12/2010	excavating in grids/bed turning	NE	10.16	10.11	y	1	vegetation	0	2	3	0	48.5	11.9	55	no	no	clear																			
D Holman	17/12/2010	excavating in grids/bed turning	NE1	10.00	10.05								53.5	13				clear																			
D Holman	17/12/2010	excavating in grids/bed turning	E	9.54	9.59	y	1	solvent and vegetation	0	2	3	0	105.6	29	55	no	no	clear	9.649																		
D Holman	17/12/2010	excavating in grids/bed turning	SE	9.48	9.53	n				3		0			51	no	no																				
D Holman	17/12/2010	excavating in grids/bed turning	S	9.42	9.47	n				3		0	36	28.6	63	no	no																				
D Holman	17/12/2010	excavating in grids/bed turning	SW	9.36	9.41	y	1	vegetation	0	4	3	0			74	no	no																				
D Holman	17/12/2010	excavating in grids/bed turning	W	9.30	9.35	y	2	vegetation	0	4	3	0	25.8		79	no	no																				
D Holman	17/12/2010	excavating in grids/bed turning	NW	10.18	10.12	y	1	vegetation	0	2	3	0			79	no	no																				
D Holman	17/12/2010	excavating in grids/bed turning/concrete crushing	N	14.42	14.47	y	1	vegetation	0	2	3	0			59	no	no	clear	9.209			4	WNW	0	overcast	8	frozen										
D Holman	17/12/2010	excavating in grids/bed turning/concrete crushing	NE	14.36	14.41	y	1	vegetation	0	2	3	0			54	no	no	clear																			
D Holman	17/12/2010	excavating in grids/bed turning/concrete crushing	NE1	14.30	14.35													clear																			
D Holman	17/12/2010	excavating in grids/bed turning/concrete crushing	E	14.24	14.29	y	1	vegetation	0	2	3	0			56	no	no	clear	9.649																		
D Holman	17/12/2010	excavating in grids/bed turning/concrete crushing	SE	14.18	14.23	y	1	vegetation	0	3	3	0			56	no	no																				
D Holman	17/12/2010	excavating in grids/bed turning/concrete crushing	S	14.12	14.17	n				3		0			62	no	no																				
D Holman	17/12/2010	excavating in grids/bed turning/concrete crushing	SW	14.06	14.11	y	1	vegetation	0	4	3	0			73	no	no																				
D Holman	17/12/2010	excavating in grids/bed turning/concrete crushing	W	14.00	14.05	y	1	vegetation	0	4	3	0			79	no	no																				
D Holman	17/12/2010	excavating in grids/bed turning/concrete crushing	NW	14.48	14.53	y	1	vegetation	0	2	3	0			80	no	no																				
I Stephenson	20/12/2010	NO WORK - SNOW	N	10.12	10.17	n				2		0	61	12	58	no	no	clear	9.229	no	no	0	N	-8	Fog	8	snow	no odour at church								
I Stephenson	20/12/2010	NO WORK - SNOW	NE	10.06	10.11	n				2		0	73	48	53	no	no	clear		no	no																
I Stephenson	20/12/2010	NO WORK - SNOW	NE1	10.00	10.05								69	18				clear		no	no															
I Stephenson	20/12/2010	NO WORK - SNOW	E	9.54	9.59	n				2		0	56	28	54	no	no	clear	9.639	no	no															
I Stephenson	20/12/2010	NO WORK - SNOW	SE	9.48	9.53	n				3		0			54	no	no			no	no															
I Stephenson	20/12/2010	NO WORK - SNOW	S	9.42	9.47	n				3		0	71	31	58	no	no			no	no															
I Stephenson	20/12/2010	NO WORK - SNOW	SW	9.36	9.41	n				4		0			71	no	no			no	no															
I Stephenson	20/12/2010	NO WORK - SNOW	W	9.30	9.35	n				4		0	78	15	69	no	no			no	no															
I Stephenson	20/12/2010	NO WORK - SNOW	NW	10.18	10.23	n				2		0			74	no	no			no	no															
I Stephenson	21/12/2010	NO WORK - SNOW	N	15.42	15.47	n				2		0	78	27	64	no	no	Clear	9.229	no	no	0	NE	-6	clear	2	snow	no odour at church								
I Stephenson	20/12/2010	NO WORK - SNOW	NE	15.36	15.41	n				2		0	58	44	47	no	no	clear		no	no															
I Stephenson	20/12/2010	NO WORK - SNOW	NE1	15.30	15.35								113	68				clear		no	no															
I Stephenson	20/12/2010	NO WORK - SNOW	E	15.24	15.29	n				2		0	19	28	50	no	no	Clear	9.639	no	no															
I Stephenson	20/12/2010	NO WORK - SNOW	SE	15.18	15.23	n				3		0			54	no	no			no	no															
I Stephenson	20/12/2010	NO WORK - SNOW	S	15.12	15.17	n				3		0	28	0	63	no	no			no	no															
I Stephenson	20/12/2010	NO WORK - SNOW	SW	15.06	15.11	n				4		0			74	no	no			no	no															
I Stephenson	20/12/2010	NO WORK - SNOW	W	15.00	15.05	n				4		0	61	11.2	73	no	no			no	no															
I Stephenson	20/12/2010	NO WORK - SNOW	NW	15.48	15.53	n				2		0			71	no	no			no	no															
I Stephenson	21/12/2010	NO WORK - SNOW	N	10.12	10.17	y	5	trees	-2	2	5	0	19	16	58	no	no	Clear	9.229	no	no	0	E	-6	cloud	8	snow	no odour at church								
I Stephenson	21/12/2010	NO WORK - SNOW	NE	10.06	10.11	n				2		0	120	78	44	no	no	ca		no	no															
I Stephenson	21/12/2010	NO WORK - SNOW	NE1	10.00	10.05								53	54				ca		no	no															
I Stephenson	21/12/2010	NO WORK - SNOW	E	9.54	9.59	n				2		0	75	28	49	no	no	Clear	9.639	no	no															
I Stephenson	21/12/2010	NO WORK - SNOW	SE	9.48	9.53	n				3		0			51	no	no			no	no															
I Stephenson	21/12/2010	NO WORK - SNOW	S	9.42	9.47	y	4	road odour, petrol, car fumes	1	3	1	0	71	2.4	59	no	no			no	no															

E Stephenson	21/12/2010	NO WORK - SNOW	SW	9.38	9.41	5				4		0			68	no	no			no	no														
E Stephenson	21/12/2010	NO WORK - SNOW	W	9.36	9.39	5				4		0	62	11	74	no	no			no	no														
E Stephenson	21/12/2010	NO WORK - SNOW	NW	10.18	10.23	8				2		0			77	no	no			no	no														

Appendix C

Long term Passive VOC Monitoring

gradko environmental
(A division of Gradko International Ltd.)
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UKAS TESTING 2187

LABORATORY ANALYSIS REPORT

REPORT NUMBER	**GCMS 4556A**
CUSTOMER	**Vertase FLI Ltd**
GRADKO LAB REFERENCE	**GMSE 2237-2247**
DATE SAMPLES RECEIVED	**06.12.10**
DESPATCH REF.NUMBER	**SOR004605**
JOB NUMBER	**907BR1/5302**
BOOKING IN REF.	**D 6279**

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	**Mi 042095****
Exposure Time(mins)	**41520**
Sample ID	**North East**

Top 10 VOC'S Compounds	**ng on tube**	**ppb in air***
Tetrachloroethylene	114.41	1.38
Toluene	65.96	0.79
m/p-Xylene	52.70	0.63
Ethylbenzene	33.40	0.40
o-Xylene	24.22	0.29
Trichloroethylene	17.59	0.21
2-Butanone	17.07	0.21
Benzene, 1,2,3-trichloro-4-methyl-	13.13	0.16
Benzene	12.19	0.15
Benzene, 1,2-dichloro-	12.18	0.15

Tube Number	**MI 012876**
Exposure Time(mins)	**41493**
Sample ID	**East**

Top 10 VOC'S Compounds	**ng on tube**	**ppb in air***
Toluene	159.19	1.92
Tetrachloroethylene	133.10	1.60
m/p-Xylene	28.16	0.34

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LABORATORY ANALYSIS REPORT

Benzene	15.27	0.18
Benzene, 1,2,3-trichloro-4-methyl-	12.91	0.16
o-Xylene	10.98	0.13
Phenol	9.14	0.11
Trichloroethylene	8.33	0.10
Benzene, 1,3,5-trichloro-	6.78	0.08
Ethylbenzene	6.71	0.08

Tube Number **MI 005361**
Exposure Time(mins) **41520**
Sample ID **South East**

Top 10 VOC'S

Compounds	**ng on tube**	**ppb in air***
Toluene	260.53	3.14
Tetrachloroethylene	241.20	2.90
m/p-Xylene	41.92	0.50
Benzene	22.13	0.27
Benzene, 1,2,3-trichloro-4-methyl-	19.26	0.23
o-Xylene	15.58	0.19
Benzene, 1,3,5-trichloro-	13.15	0.16
Phenol	11.41	0.14
Ethylbenzene	11.34	0.14
Benzene, 1-chloro-2-methyl-	10.72	0.13

Tube Number **MI 038008**
Exposure Time(mins) **41494**
Sample ID **South**

Top 10 VOC'S

Compounds	**ng on tube**	**ppb in air***
Toluene	102.19	1.23
Tetrachloroethylene	40.88	0.49
m/p-Xylene	34.04	0.41
Benzene	26.95	0.32
Phenol	16.21	0.20
Ethylbenzene	15.33	0.18
o-Xylene	15.29	0.18

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LABORATORY ANALYSIS REPORT

2-Propanol, 1-methoxy-	10.86	0.13
2-Butanone	6.15	0.07
Benzene, 1,2,4-trimethyl-	6.13	0.07

Tube Number	**MI 036108**
Exposure Time(mins)	**41520**
Sample ID	**South West**

Top 10 VOC'S

Compounds	**ng on tube**	**ppb in air***
Toluene	151.99	1.83
Tetrachloroethylene	84.13	1.01
m/p-Xylene	60.88	0.73
Ethylbenzene	38.83	0.47
o-Xylene	32.36	0.39
2-Butanone	29.51	0.36
Benzene	23.85	0.29
Dodecane	19.14	0.23
Pentadecane	15.74	0.19
Heptane, 2,2,4,6,6-pentamethyl-	14.86	0.18

Tube Number	**MI 013088**
Exposure Time(mins)	**41520**
Sample ID	**West**

Top 10 VOC'S

Compounds	**ng on tube**	**ppb in air***
Toluene	381.32	4.59
Tetrachloroethylene	135.57	1.63
m/p-Xylene	63.19	0.76
Benzene	20.03	0.24
o-Xylene	19.56	0.24
2-Propanol, 1-methoxy-	16.58	0.20
Ethylbenzene	15.33	0.18
Benzene, 1,2,3-trichloro-4-methyl-	13.55	0.16
Phenol	11.86	0.14
Pentane, 3-methyl-	11.07	0.13

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LABORATORY ANALYSIS REPORT

Tube Number	**MI 011019****
Exposure Time(mins)	**41495**
Sample ID	**North West**

Top 10 VOC'S

Compounds	**ng on tube**	**ppb in air***
Toluene	141.86	1.71
Tetrachloroethylene	105.52	1.27
m/p-Xylene	54.32	0.65
Ethylbenzene	28.56	0.34
Benzene	26.47	0.32
o-Xylene	23.59	0.28
2-Butanone	20.47	0.25
Pentane, 3-methyl-	19.79	0.24
2-Propanol, 1-methoxy-	14.74	0.18
Phenol	12.29	0.15

Tube Number	**MI 012978**
Exposure Time(mins)	**41493**
Sample ID	**North**

Top 10 VOC'S

Compounds	**ng on tube**	**ppb in air***
Toluene	116.42	1.40
Tetrachloroethylene	73.00	0.88
Naphthalene	59.04	0.71
m/p-Xylene	53.30	0.64
Ethylbenzene	40.89	0.49
o-Xylene	26.82	0.32
Pentane, 3-methyl-	20.59	0.25
2-Butanone	19.68	0.24
Benzene	17.54	0.21
Phenol	15.73	0.19

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LABORATORY ANALYSIS REPORT

Tube Number	**MI 041517****
Exposure Time(mins)	**41493**
Sample ID	**WWTW**

Top 10 VOC'S

Compounds	**ng on tube**	**ppb in air***
Toluene	64.69	0.78
m/p-Xylene	42.25	0.51
Ethylbenzene	35.95	0.43
Tetrachloroethylene	24.42	0.29
o-Xylene	24.37	0.29
2-Butanone	23.23	0.28
Benzene	22.47	0.27
Phenol	15.07	0.18
2-Propanol, 1-methoxy-	14.69	0.18
Heptane, 2,2,4,6,6-pentamethyl-	14.46	0.17

Tube Number	**MI 015150**
Exposure Time(mins)	**41533**
Sample ID	**Church Road**

Top 10 VOC'S

Compounds	**ng on tube**	**ppb in air***
Naphthalene	127.45	1.53
Heptadecane	84.29	1.01
Octadecane	61.76	0.74
Toluene	58.41	0.70
Nonadecane	49.58	0.60
Hexadecane	35.36	0.43
m/p-Xylene	24.80	0.30
Benzene	18.43	0.22
o-Xylene	15.73	0.19
Phenol	14.67	0.18

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LABORATORY ANALYSIS REPORT

Tube Number	**MI 005446**
Exposure Time(mins)	**41523**
Sample ID	**Queen's Close**

Top 10 VOC'S

Compounds	**ng on tube**	**ppb in air***
m/p-Xylene	57.05	0.69
Toluene	48.11	0.58
Ethylbenzene	39.64	0.48
o-Xylene	30.42	0.37
Benzene	22.17	0.27
2-Butanone	21.69	0.26
Phenol	10.88	0.13
Heptane, 2,2,4,6,6-pentamethyl-	9.96	0.12
Benzene, 1,2,4-trimethyl-	8.95	0.11
Butane, 2-methyl-	6.87	0.08

****Samples were received with a cap off.**

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

Analysts Name **M.Angelova** **Date of Analysis** **13.12.10**

Date of Report **16.12.10**

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LABORATORY ANALYSIS REPORT

REPORT NUMBER	**AMENDMENT TO LABORATORY REPORT GCMS 4583**
CUSTOMER	**Vertase FLI Ltd**
GRADKO LAB REFERENCE	**GMSF 0089-0099**
DATE SAMPLES RECEIVED	**12.01.11**
DESPATCH REF.NUMBER	**SOR004605**
JOB NUMBER	**907BR1/5302**
BOOKING IN REF.	**E 0286**

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 05967**
Exposure Time(mins)	**37458**
Sample ID	**North East**

Top 10 VOC'S

Compounds	**ng on tube**	**ppb in air***
Tetrachloroethylene	238.84	3.19
Toluene	160.70	2.15
Heptadecane	51.13	0.68
Trichloroethylene	37.03	0.49
Octadecane	34.14	0.46
m/p-Xylene	32.97	0.44
Hexadecane	32.03	0.43
Nonadecane	24.74	0.33
Benzene, 1,2,3-trichloro-4-methyl-	22.80	0.30
Benzene	20.26	0.27

Tube Number	**GRA 04973**
Exposure Time(mins)	**37470**
Sample ID	**East**

Top 10 VOC'S

Compounds	**ng on tube**	**ppb in air***
Toluene	537.64	7.17
Tetrachloroethylene	472.77	6.31
m/p-Xylene	101.56	1.36

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Benzene, 1,2,3-trichloro-4-methyl-	86.62	1.16
Ethylbenzene	40.32	0.54
o-Xylene	32.47	0.43
Benzene, 1,2,4-trichloro-3-methyl-	31.31	0.42
Benzene	25.42	0.34
Trichloroethylene	23.81	0.32
Bis(2-chloroethyl) ether	20.44	0.27

Tube Number **GRA 02369**
Exposure Time(mins) **37503**
Sample ID **South East**

Top 10 VOC'S

Compounds	**ng on tube**	**ppb in air***
Tetrachloroethylene	491.39	6.55
Toluene	408.86	5.45
Benzene, 1,2,3-trichloro-4-methyl-	87.31	1.16
m/p-Xylene	57.25	0.76
Undecane	27.68	0.37
Benzene, 1,2,4-trichloro-3-methyl-	24.78	0.33
Benzene	22.32	0.30
o-Xylene	21.11	0.28
Naphthalene	17.92	0.24
Benzene, 1,4-dichloro-2-methyl-	14.55	0.19

Tube Number **GRA 06136**
Exposure Time(mins) **37517**
Sample ID **South**

Top 10 VOC'S

Compounds	**ng on tube**	**ppb in air***
Toluene	171.16	2.28
Tetrachloroethylene	127.24	1.70
m/p-Xylene	30.43	0.41
Pentadecane	24.24	0.32
Benzene	18.28	0.24
o-Xylene	13.00	0.17
Heptadecane	9.08	0.12

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Hexadecane	8.52	0.11
Ethylbenzene	8.48	0.11
Butane, 2-methyl-	5.91	0.08

Tube Number **GRA 01823**
Exposure Time(mins) **37527**
Sample ID **South West**

Tube received damaged and could not be analysed.

Tube Number **GRA 05775**
Exposure Time(mins) **37563**
Sample ID **West**

Top 10 VOC'S

Compounds	**ng on tube**	**ppb in air***
Toluene	48.53	0.65
Tetrachloroethylene	32.21	0.43
Benzene	18.36	0.24
m/p-Xylene	18.13	0.24
Phenol	12.65	0.17
Benzonitrile	11.80	0.16
o-Xylene	11.80	0.16
Octane	6.04	0.08
Ethylbenzene	5.70	0.08
Benzene, 1,2,4-trimethyl-	4.60	0.06

Tube Number **GRA 02628**
Exposure Time(mins) **37516**
Sample ID **North West**

Top 10 VOC'S

Compounds	**ng on tube**	**ppb in air***
m/p-Xylene	196.22	2.62
Ethylbenzene	175.55	2.34
Toluene	74.36	0.99
o-Xylene	68.76	0.92
Tetrachloroethylene	51.47	0.69

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Benzene	19.96	0.27
2-Butanone	10.98	0.15
Benzonitrile	8.08	0.11
Butane, 2-methyl-	7.69	0.10
Benzene, 1,2,4-trimethyl-	7.50	0.10

Tube Number **GRA 03403**
Exposure Time(mins) **37449**
Sample ID **North**

Top 10 VOC'S

Compounds	**ng on tube**	**ppb in air***
Tetrachloroethylene	72.95	0.97
Toluene	66.87	0.89
Naphthalene	65.21	0.87
Benzene	23.89	0.32
Naphthalene, 1-methyl-	21.59	0.29
m/p-Xylene	19.83	0.26
Benzonitrile	14.78	0.20
Anthracene	13.30	0.18
Dibenzofuran	11.57	0.15
Acenaphthene	10.75	0.14

Tube Number **GRA 03674**
Exposure Time(mins) **37521**
Sample ID **WWTW**
Top 10 VOC'S

Compounds	**ng on tube**	**ppb in air***
Toluene	39.06	0.52
Benzene	19.89	0.27
Tetrachloroethylene	16.77	0.22
m/p-Xylene	16.10	0.21
Phenol	14.43	0.19
o-Xylene	10.26	0.14
Pentadecane	9.93	0.13
Benzonitrile	7.02	0.09
Ethylbenzene	6.43	0.09
Dodecane	5.99	0.08

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LABORATORY ANALYSIS REPORT

Tube Number	**GRA 04605**
Exposure Time(mins)	**37505**
Sample ID	**Church Road**

Top 10 VOC'S

Compounds	**ng on tube**	**ppb in air***
Toluene	83.51	1.11
Naphthalene	79.73	1.06
Tetrachloroethylene	42.22	0.56
m/p-Xylene	25.41	0.34
Benzene	23.79	0.32
Naphthalene, 1-methyl-	19.62	0.26
o-Xylene	13.38	0.18
Phenol	12.06	0.16
Benzonitrile	8.75	0.12
Ethylbenzene	7.94	0.11

Tube Number	**GRA 03014**
Exposure Time(mins)	**37515**
Sample ID	**Queen's Close**

Top 10 VOC'S

Compounds	**ng on tube**	**ppb in air***
m/p-Xylene	75.91	1.01
Ethylbenzene	60.72	0.81
Toluene	50.67	0.68
o-Xylene	29.94	0.40
Benzene	22.01	0.29
Tetrachloroethylene	17.00	0.23
Undecane	11.06	0.15
Dodecane	10.28	0.14
Benzene, 1,2,4-trimethyl-	8.40	0.11
Phenol	7.73	0.10

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

Analysts Name **M.Angelova** **Date of Analysis 13.01.11**
Date of Report 17.01.11

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Appendix D

Directional Dust Monitoring

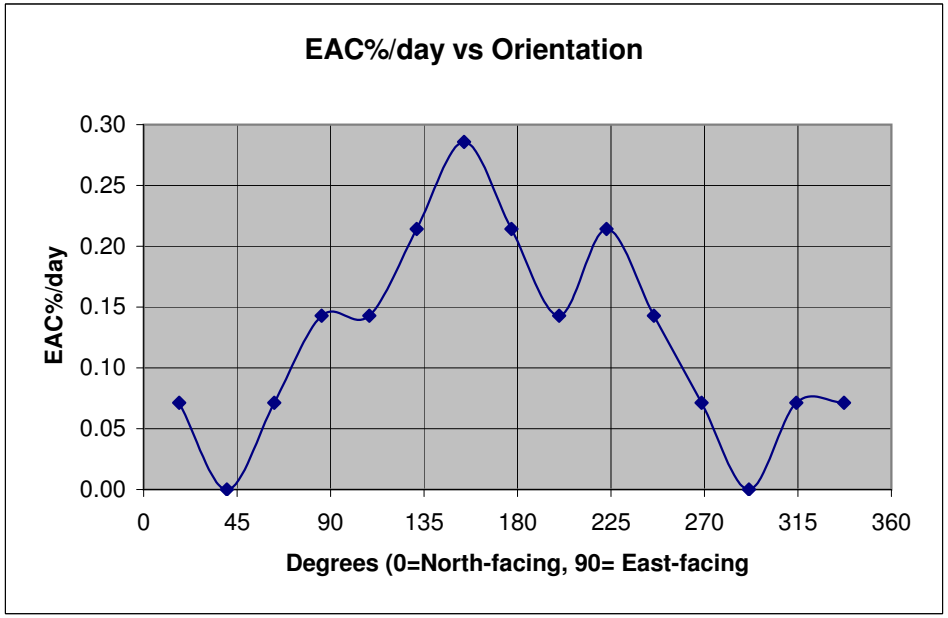
Chemtest

Sticky Pad Data

Gauge Number - North location 907BRI

Sticky Pad Data

Date On	26/11/2010	Date Off	10/12/2010	Days = 14
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	89	337	0.07	
40	89	314	0.07	
60	90	291	0.00	
80	89	269	0.07	
100	88	246	0.14	
120	87	223	0.21	
140	88	200	0.14	
160	87	177	0.21	
180	86	154	0.29	
200	87	131	0.21	
220	88	109	0.14	
240	88	86	0.14	
260	89	63	0.07	
280	90	40	0.00	
300	89	17	0.07	



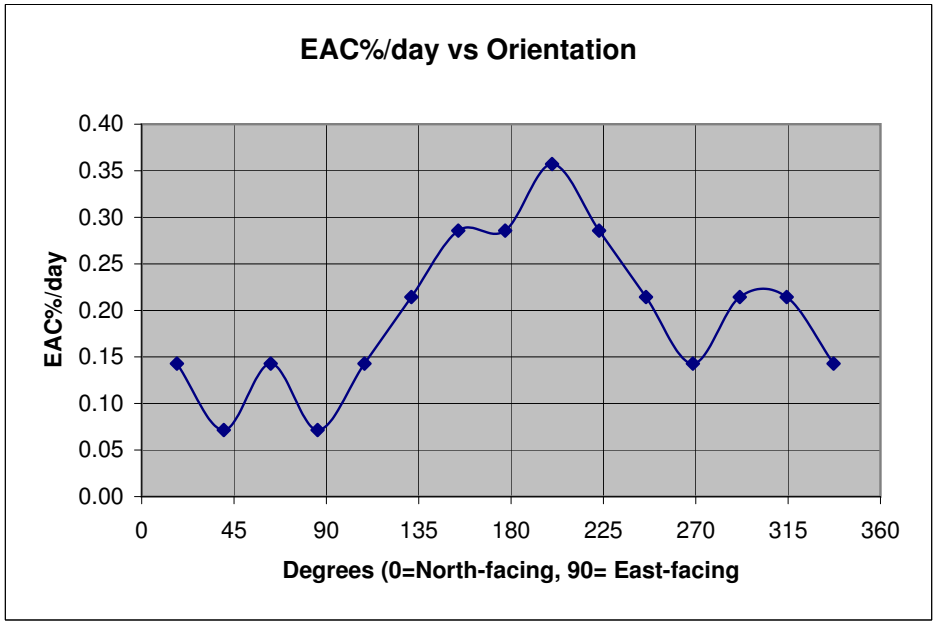
Note: Cells coloured yellow are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 40mm intervals along the sticky pad.

Chemtest **Sticky Pad Data**

Gauge Number - NE1 location 907BRI

Sticky Pad Data

Date On	26/11/2010	Date Off	10/12/2010	Days = 14
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	88	337	0.14	
40	87	314	0.21	
60	87	291	0.21	
80	88	269	0.14	
100	87	246	0.21	
120	86	223	0.29	
140	85	200	0.36	
160	86	177	0.29	
180	86	154	0.29	
200	87	131	0.21	
220	88	109	0.14	
240	89	86	0.07	
260	88	63	0.14	
280	89	40	0.07	
300	88	17	0.14	



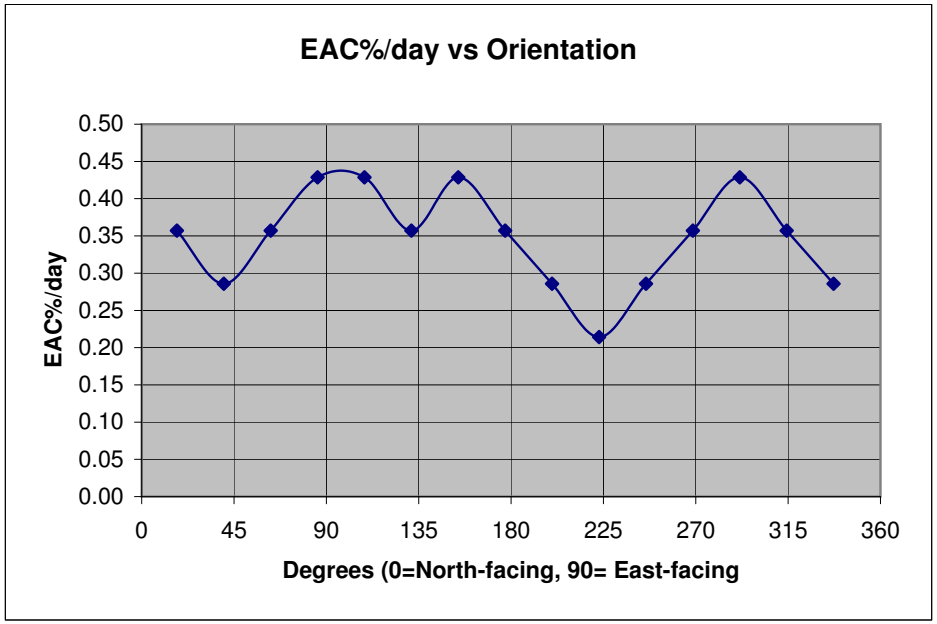
Note: Cells coloured yellow are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 40mm intervals along the sticky pad.

Chemtest **Sticky Pad Data**

Gauge Number - NE2 location 907BRI

Sticky Pad Data

Date On	26/11/2010	Date Off	10/12/2010	Days = 14
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	86	337	0.29	
40	85	314	0.36	
60	84	291	0.43	
80	85	269	0.36	
100	86	246	0.29	
120	87	223	0.21	
140	86	200	0.29	
160	85	177	0.36	
180	84	154	0.43	
200	85	131	0.36	
220	84	109	0.43	
240	84	86	0.43	
260	85	63	0.36	
280	86	40	0.29	
300	85	17	0.36	



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.

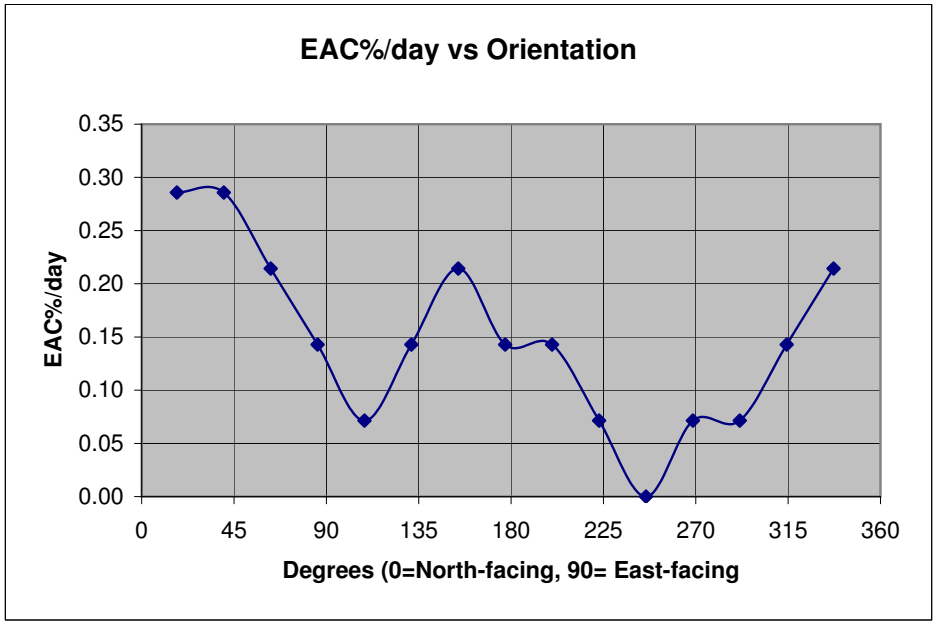
Chemtest

Sticky Pad Data

Gauge Number - South location 907BRI

Sticky Pad Data

Date On	26/11/2010	Date Off	10/12/2010	Days = 14
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	87	337	0.21	
40	88	314	0.14	
60	89	291	0.07	
80	89	269	0.07	
100	90	246	0.00	
120	89	223	0.07	
140	88	200	0.14	
160	88	177	0.14	
180	87	154	0.21	
200	88	131	0.14	
220	89	109	0.07	
240	88	86	0.14	
260	87	63	0.21	
280	86	40	0.29	
300	86	17	0.29	
			6.43	



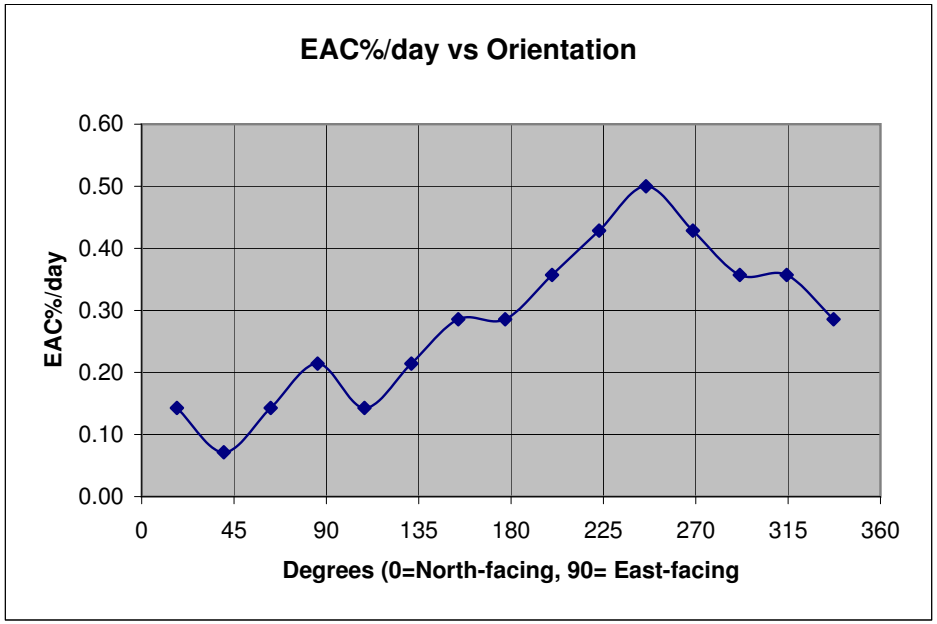
Note: Cells coloured yellow are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 40mm intervals along the sticky pad.

Chemtest **Sticky Pad Data**

Gauge Number - West location 907BRI

Sticky Pad Data

Date On	26/11/2010	Date Off	10/12/2010	Days = 14
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	86	337	0.29	
40	85	314	0.36	
60	85	291	0.36	
80	84	269	0.43	
100	83	246	0.50	
120	84	223	0.43	
140	85	200	0.36	
160	86	177	0.29	
180	86	154	0.29	
200	87	131	0.21	
220	88	109	0.14	
240	87	86	0.21	
260	88	63	0.14	
280	89	40	0.07	
300	88	17	0.14	



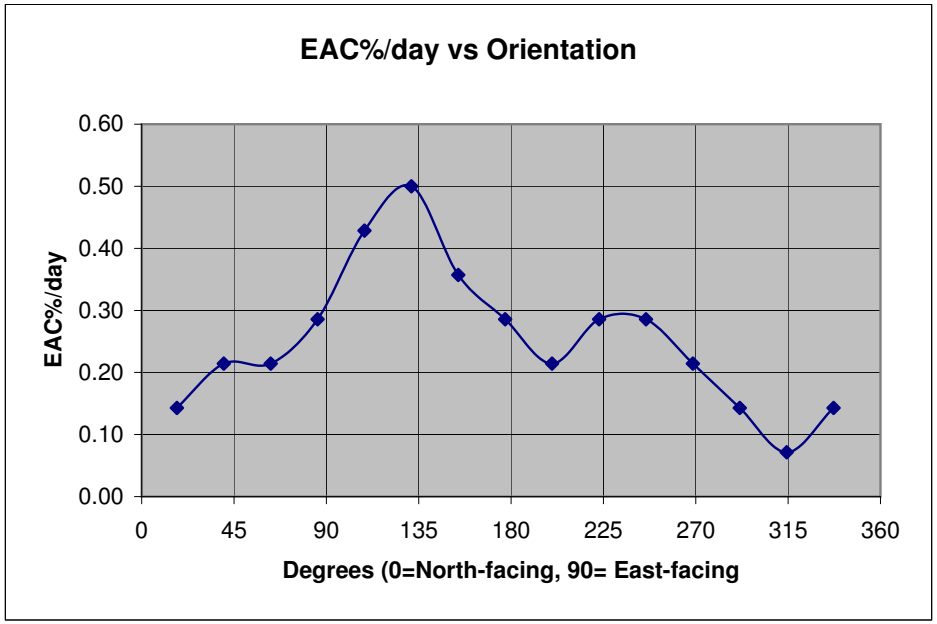
Note: Cells coloured yellow are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 40mm intervals along the sticky pad.

Chemtest **Sticky Pad Data**

Gauge Number - East location 907BRI

Sticky Pad Data

Date On	26/11/2010	Date Off	10/12/2010	Days = 14
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	88	337	0.14	
40	89	314	0.07	
60	88	291	0.14	
80	87	269	0.21	
100	86	246	0.29	
120	86	223	0.29	
140	87	200	0.21	
160	86	177	0.29	
180	85	154	0.36	
200	83	131	0.50	
220	84	109	0.43	
240	86	86	0.29	
260	87	63	0.21	
280	87	40	0.21	
300	88	17	0.14	



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.

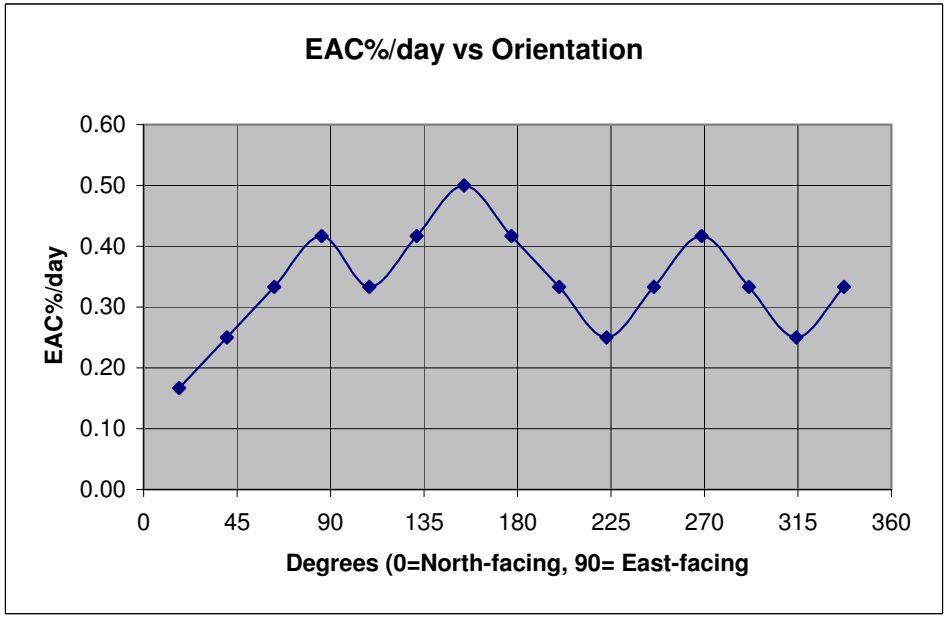
Chemtest

Sticky Pad Data

Gauge Number - North location 907BRI

Sticky Pad Data

Date On	10/12/2010	Date Off	22/12/2010	Days = 12
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	86	337	0.33	
40	87	314	0.25	
60	86	291	0.33	
80	85	269	0.42	
100	86	246	0.33	
120	87	223	0.25	
140	86	200	0.33	
160	85	177	0.42	
180	84	154	0.50	
200	85	131	0.42	
220	86	109	0.33	
240	85	86	0.42	
260	86	63	0.33	
280	87	40	0.25	
300	88	17	0.17	



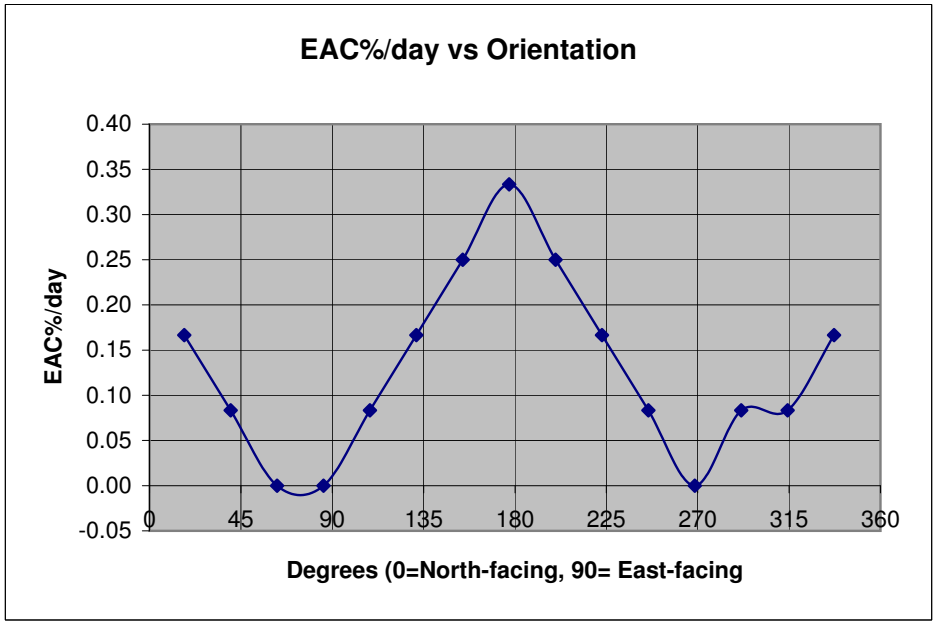
Note: Cells coloured yellow are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 40mm intervals along the sticky pad.

Chemtest **Sticky Pad Data**

Gauge Number - NE1 location 907BRI

Sticky Pad Data

Date On	10/12/2010	Date Off	22/12/2010	Days = 12
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	88	337	0.17	
40	89	314	0.08	
60	89	291	0.08	
80	90	269	0.00	
100	89	246	0.08	
120	88	223	0.17	
140	87	200	0.25	
160	86	177	0.33	
180	87	154	0.25	
200	88	131	0.17	
220	89	109	0.08	
240	90	86	0.00	
260	90	63	0.00	
280	89	40	0.08	
300	88	17	0.17	



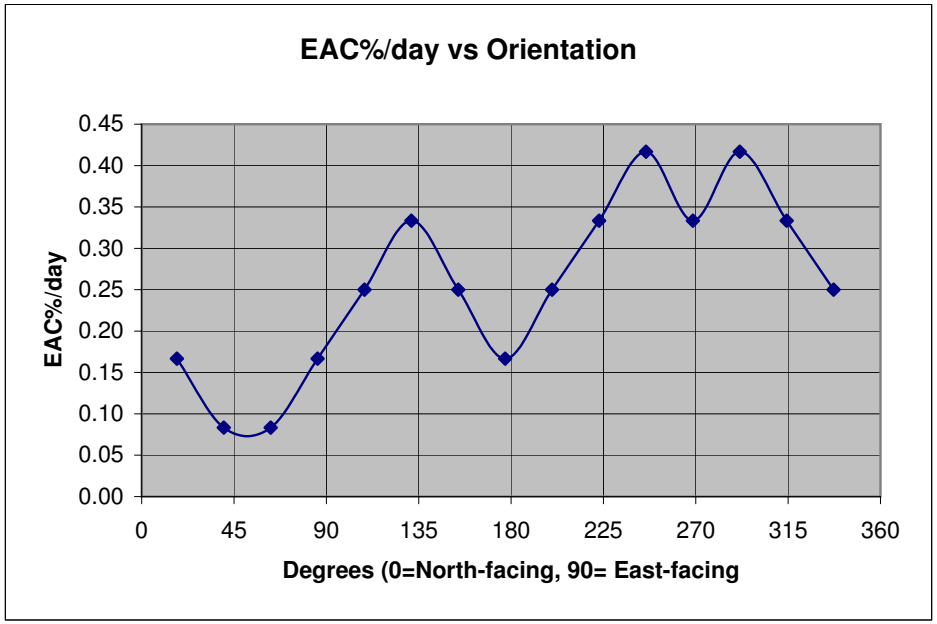
Note: Cells coloured yellow are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 40mm intervals along the sticky pad.

Chemtest **Sticky Pad Data**

Gauge Number - NE2 location 907BRI

Sticky Pad Data

Date On	10/12/2010	Date Off	22/12/2010	Days = 12
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	87	337	0.25	
40	86	314	0.33	
60	85	291	0.42	
80	86	269	0.33	
100	85	246	0.42	
120	86	223	0.33	
140	87	200	0.25	
160	88	177	0.17	
180	87	154	0.25	
200	86	131	0.33	
220	87	109	0.25	
240	88	86	0.17	
260	89	63	0.08	
280	89	40	0.08	
300	88	17	0.17	



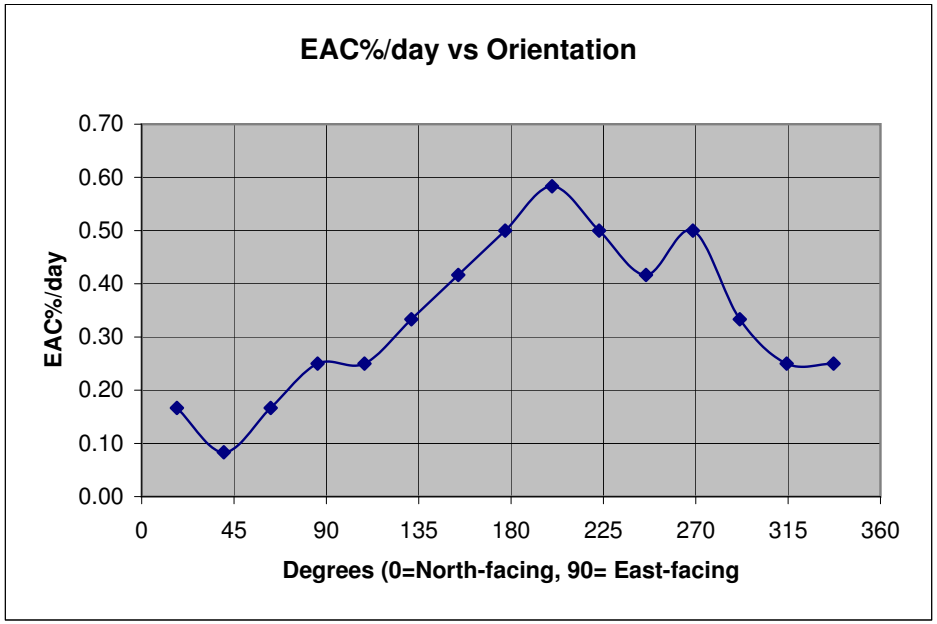
Note: Cells coloured yellow are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 40mm intervals along the sticky pad.

Chemtest **Sticky Pad Data**

Gauge Number - South location 907BRI

Sticky Pad Data

Date On	10/12/2010	Date Off	22/12/2010	Days = 12
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	87	337	0.25	
40	87	314	0.25	
60	86	291	0.33	
80	84	269	0.50	
100	85	246	0.42	
120	84	223	0.50	
140	83	200	0.58	
160	84	177	0.50	
180	85	154	0.42	
200	86	131	0.33	
220	87	109	0.25	
240	87	86	0.25	
260	88	63	0.17	
280	89	40	0.08	
300	88	17	0.17	
			7.50	



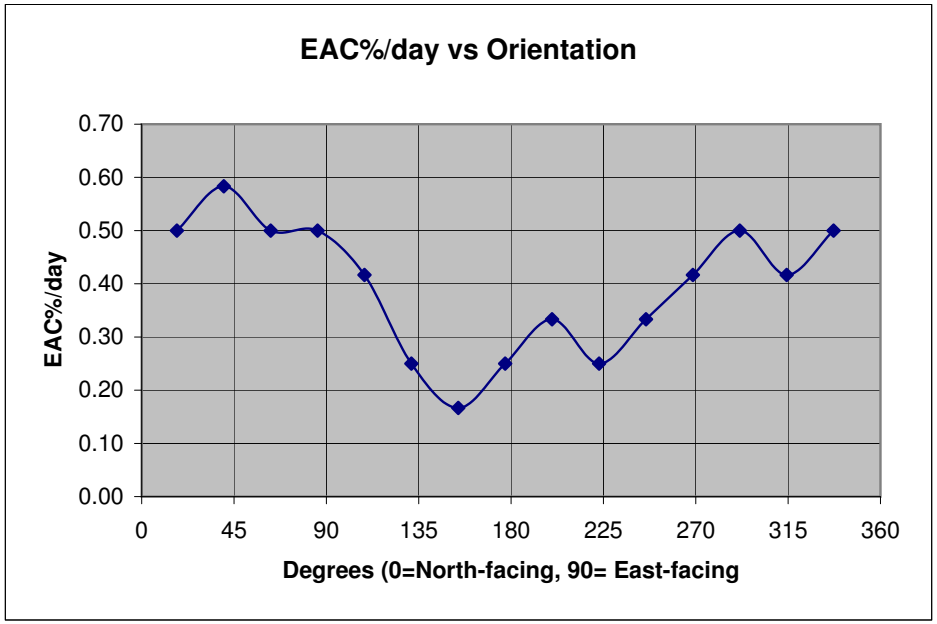
Note: Cells coloured yellow are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 40mm intervals along the sticky pad.

Chemtest **Sticky Pad Data**

Gauge Number - West location 907BRI

Sticky Pad Data

Date On	10/12/2010	Date Off	22/12/2010	Days = 12
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	84	337	0.50	
40	85	314	0.42	
60	84	291	0.50	
80	85	269	0.42	
100	86	246	0.33	
120	87	223	0.25	
140	86	200	0.33	
160	87	177	0.25	
180	88	154	0.17	
200	87	131	0.25	
220	85	109	0.42	
240	84	86	0.50	
260	84	63	0.50	
280	83	40	0.58	
300	84	17	0.50	



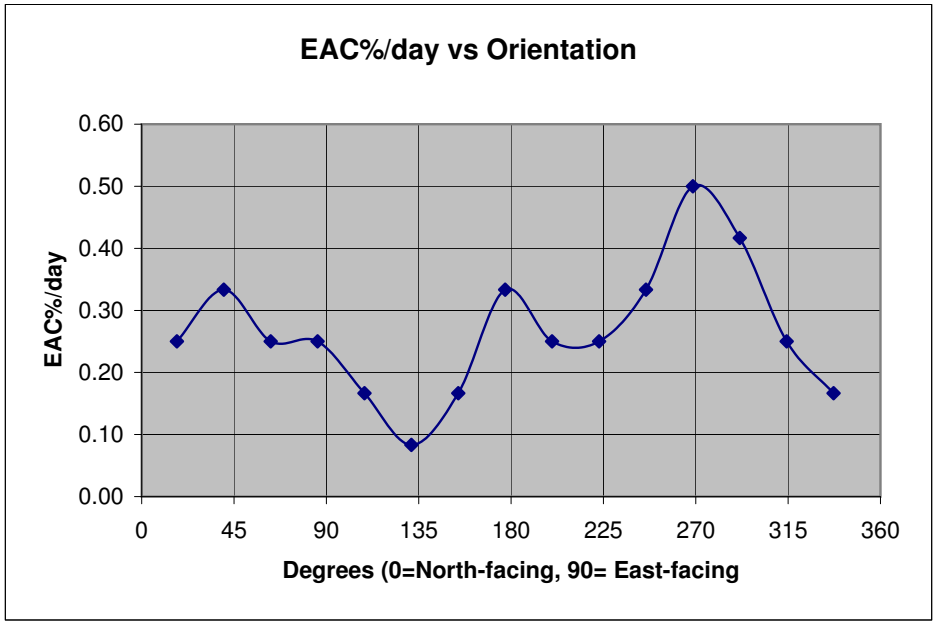
Note: Cells coloured yellow are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 40mm intervals along the sticky pad.

Chemtest **Sticky Pad Data**

Gauge Number - East location 907BRI

Sticky Pad Data

Date On	10/12/2010	Date Off	22/12/2010	Days = 12
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	88	337	0.17	
40	87	314	0.25	
60	85	291	0.42	
80	84	269	0.50	
100	86	246	0.33	
120	87	223	0.25	
140	87	200	0.25	
160	86	177	0.33	
180	88	154	0.17	
200	89	131	0.08	
220	88	109	0.17	
240	87	86	0.25	
260	87	63	0.25	
280	86	40	0.33	
300	87	17	0.25	



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	BH10B/06	BH9	S1/8	BH11*	S2/6	BHB1	W1 (n)	W2	W3 (s)	Riddy 1	Riddy 2	Riddy 3	Riddy 4	V F12	V N3
29/11/2010	9.96	10.61	10.224	Covered	10.469	Lost	9.693	10.393	9.62	10.23	10.18	10.17	9.219	9.294	9.540	9.649	10.208	9.992
30/11/2010	9.98	10.57	10.224	Covered	10.479	Lost	9.703	10.403	9.62	10.22	10.19	10.17	9.219	9.304	9.550	9.659	10.208	9.992
01/12/2010	9.98	10.57	10.234	Covered	10.489	Lost	9.713	10.403	9.62	10.23	10.2	10.17	9.229	9.304	9.550	9.659	10.218	9.992
02/12/2010	9.99	10.58	10.244	Covered	10.499	Lost	9.713	10.413	9.63	10.22	10.19	10.17	9.229	9.304	9.550	9.659	10.218	9.982
03/12/2010	10	10.58	10.254	Covered	10.489	Lost	9.723	10.423	9.63	10.23	10.19	10.17	9.219	9.304	9.550	9.659	10.218	9.982
06/12/2010	10.02	10.59	10.254	Covered	10.489	Lost	9.733	10.423	9.64	10.23	10.18	10.16	9.209	9.294	9.540	9.659	10.208	9.992
07/12/2010	10.02	10.6	10.244	Covered	10.499	Lost	9.733	10.423	9.64	10.23	10.19	10.17	9.209	9.294	9.540	9.649	10.208	9.992
08/12/2010	10.03	10.6	10.254	Covered	10.499	Lost	9.733	10.423	9.65	10.24	10.19	10.16	9.209	9.294	9.540	9.649	10.208	10.002
09/12/2010	10.04	10.61	10.244	Covered	10.499	Lost	9.743	10.433	9.65	10.24	10.19	10.16	9.209	9.294	9.540	9.649	10.218	10.002
10/12/2010	10.04	10.61	10.254	Covered	10.499	Lost	9.743	10.433	9.66	10.24	10.19	10.16	9.209	9.304	9.540	9.649	10.218	9.992
13/12/2010	10.05	10.62	10.254	Covered	10.499	Lost	9.753	10.423	9.66	10.23	10.18	10.17	9.209	9.304	9.540	9.649	10.218	9.992
14/12/2010	10.05	10.62	10.254	Covered	10.499	Lost	9.753	10.423	9.65	10.23	10.19	10.17	9.209	9.304	9.540	9.649	10.208	9.992
15/12/2010	10.04	10.62	10.244	Covered	10.499	Lost	9.763	10.413	9.65	10.23	10.19	10.17	9.209	9.304	9.540	9.649	10.198	9.982
16/12/2010	10.04	10.62	10.254	Covered	10.499	Lost	9.753	10.423	9.66	10.24	10.19	10.17	9.209	9.304	9.540	9.649	10.198	9.992
17/12/2010	10.05	10.61	10.254	Covered	10.499	Lost	9.753	10.413	9.66	10.24	10.2	10.17	9.209	9.304	9.540	9.649	10.218	9.982

Appendix F
Surface Water Analysis Reports

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

Scientific Analysis Laboratories

Certificate of Analysis

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

Report Number: 221391-1

Date of Report: 10-Dec-2010

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

Customer Contact: The Project Management

Customer Job Reference: 907 BRI
Date Job Received at SAL: 03-Dec-2010
Date Analysis Started: 06-Dec-2010
Date Analysis Completed: 10-Dec-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

UKAS TESTING
1549

Report checked and authorised by :
Amelia McVennon
Project Manager

Issued by :
Amelia McVennon
Project Manager

SAL Reference: 221391
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton Suite

				SAL Reference	**221391 001**	**221391 002**	**221391 003**	**221391 004**	**221391 005**
				Customer Sample Reference	**S3/6**	**VF12**	**BH8/06**	**BH6/06**	**S2/6**
				Date Sampled	**24-NOV-2010**	**24-NOV-2010**	**24-NOV-2010**	**25-NOV-2010**	**25-NOV-2010**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Electrical Conductivity	T7	AR	10	µS/cm	**2900**	**950**	**4200**	**970**	**1900**
pH	T7	AR			**7.0**	**7.2**	**7.2**	**7.2**	**7.3**

SAL Reference: 221391
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton Suite

				SAL Reference	**221391 006**	**221391 007**	**221391 008**	**221391 009**	**221391 010**
				Customer Sample Reference	**BHB1**	**BH4**	**BH9**	**BH11**	**S3/4**
				Date Sampled	**25-NOV-2010**	**25-NOV-2010**	**26-NOV-2010**	**26-NOV-2010**	**26-NOV-2010**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Electrical Conductivity	T7	AR	10	µS/cm	**2400**	**2000**	**2200**	**990**	**3600**
pH	T7	AR			**6.8**	**6.8**	**7.2**	**7.3**	**7.1**

SAL Reference: 221391
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton Suite

				SAL Reference	**221391 011**	**221391 012**	**221391 013**	**221391 014**	**221391 015**
				Customer Sample Reference	**N3**	**Riddy Downstream**	**Cam Downstream**	**Riddy Upstream**	**Cam Upstream**
				Date Sampled	**26-NOV-2010**	**26-NOV-2010**	**26-NOV-2010**	**26-NOV-2010**	**26-NOV-2010**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Electrical Conductivity	T7	AR	10	µS/cm	**1900**	**890**	**870**	**870**	**870**
pH	T7	AR			**7.3**	**8.1**	**8.1**	**8.0**	**8.1**

SAL Reference: 221391
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton OP/ON Suite

				SAL Reference	**221391 001**	**221391 002**	**221391 003**	**221391 004**	**221391 005**
				Customer Sample Reference	**S3/6**	**VF12**	**BH8/06**	**BH6/06**	**S2/6**
				Date Sampled	**24-NOV-2010**	**24-NOV-2010**	**24-NOV-2010**	**25-NOV-2010**	**25-NOV-2010**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Dimefox	T16	AR	0.1	µg/l	(9) <0.1	(9) <0.1	<0.1	<0.1	(9) <0.1
Ethofumesate	T16	AR	0.1	µg/l	**460**	**530**	**0.4**	**0.1**	**770**
Hempa	T16	AR	0.1	µg/l	(9) <0.1	(9) <0.1	<0.1	<0.1	(9) <0.1
Schradan	T16	AR	0.1	µg/l	(9) <0.1	(9) <0.1	<0.1	<0.1	(9) <0.1
Simazine	T16	AR	0.01	µg/l	(9) <0.10	**5.5**	<0.01	<0.01	**32**

SAL Reference: 221391
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton OP/ON Suite

				SAL Reference	**221391 006**	**221391 007**	**221391 008**	**221391 009**	**221391 010**
				Customer Sample Reference	**BHB1**	**BH4**	**BH9**	**BH11**	**S3/4**
				Date Sampled	**25-NOV-2010**	**25-NOV-2010**	**26-NOV-2010**	**26-NOV-2010**	**26-NOV-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	**540**	**560**	**11**	**16**	**2.7**
Hempa	T16	AR	0.1	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1
Schradan	T16	AR	0.1	µg/l	<0.1	<0.1	**0.3**	<0.1	<0.1
Simazine	T16	AR	0.01	µg/l	<0.01	<0.01	<0.01	**0.28**	<0.01

SAL Reference: 221391
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton OP/ON Suite

				SAL Reference	**221391 011**	**221391 012**	**221391 013**	**221391 014**	**221391 015**
				Customer Sample Reference	**N3**	**Riddy Downstream**	**Cam Downstream**	**Riddy Upstream**	**Cam Upstream**
				Date Sampled	**26-NOV-2010**	**26-NOV-2010**	**26-NOV-2010**	**26-NOV-2010**	**26-NOV-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	**1.3**	**0.2**	<0.1	<0.1	<0.1
Hempa	T16	AR	0.1	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1
Schradan	T16	AR	0.1	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1
Simazine	T16	AR	0.01	µg/l	**0.05**	<0.01	<0.01	<0.01	<0.01

SAL Reference: 221391
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton Phenoxy Acid Herbs Suite

				SAL Reference	**221391 001**	**221391 002**	**221391 003**	**221391 004**	**221391 005**
				Customer Sample Reference	**S3/6**	**VF12**	**BH8/06**	**BH6/06**	**S2/6**
				Date Sampled	**24-NOV-2010**	**24-NOV-2010**	**24-NOV-2010**	**25-NOV-2010**	**25-NOV-2010**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Dicamba	T16	AR	0.1	µg/l	**26**	**0.7**	**3.0**	**0.1**	**270**
Dichlorprop	T16	AR	0.1	µg/l	**380**	**0.4**	**1.0**	**0.3**	<0.1
Phenoxy Acetic acid herbicide: MCPA	T16	AR	0.1	µg/l	**630**	**24**	**4.1**	**0.6**	<0.1
Mecoprop	T16	AR	0.1	µg/l	**660**	**60**	**1.6**	**0.7**	**1.8**

SAL Reference: 221391
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton Phenoxy Acid Herbs Suite

				SAL Reference	**221391 006**	**221391 007**	**221391 008**	**221391 009**	**221391 010**
				Customer Sample Reference	**BHB1**	**BH4**	**BH9**	**BH11**	**S3/4**
				Date Sampled	**25-NOV-2010**	**25-NOV-2010**	**26-NOV-2010**	**26-NOV-2010**	**26-NOV-2010**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Dicamba	T16	AR	0.1	µg/l	**7.4**	**12**	**0.2**	**0.1**	<0.1
Dichlorprop	T16	AR	0.1	µg/l	**16**	**34**	<0.1	**0.2**	**17**
Phenoxy Acetic acid herbicide: MCPA	T16	AR	0.1	µg/l	**0.8**	**2.8**	<0.1	<0.1	<0.1
Mecoprop	T16	AR	0.1	µg/l	**220**	**460**	**4.3**	**6.4**	**160**

SAL Reference: 221391
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton Phenoxy Acid Herbs Suite

					SAL Reference	**221391 011**	**221391 012**	**221391 013**	**221391 014**	**221391 015**
					Customer Sample Reference	**N3**	**Riddy Downstream**	**Cam Downstream**	**Riddy Upstream**	**Cam Upstream**
					Date Sampled	**26-NOV-2010**	**26-NOV-2010**	**26-NOV-2010**	**26-NOV-2010**	**26-NOV-2010**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**						
Dicamba	T16	AR	0.1	µg/l		<0.1	**0.2**	<0.1	<0.1	<0.1
Dichlorprop	T16	AR	0.1	µg/l		<0.1	**0.2**	<0.1	<0.1	<0.1
Phenoxy Acetic acid herbicide: MCPA	T16	AR	0.1	µg/l		<0.1	<0.1	<0.1	<0.1	<0.1
Mecoprop	T16	AR	0.1	µg/l		**1.7**	**0.4**	<0.1	<0.1	<0.1

SAL Reference: 221391
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton SVOC Suite

					SAL Reference	**221391 001**	**221391 002**	**221391 003**	**221391 004**	**221391 005**
					Customer Sample Reference	**S3/6**	**VF12**	**BH8/06**	**BH6/06**	**S2/6**
					Date Sampled	**24-NOV-2010**	**24-NOV-2010**	**24-NOV-2010**	**25-NOV-2010**	**25-NOV-2010**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**						
2,4,6-Trichlorophenol	T16	AR	10	µg/l		**3800**	<10	**15**	<10	**280**
2-Methyl-4,6-dinitrophenol	T16	AR	10	µg/l		**190**	<10	<10	<10	<10
4-Chloro-2-methylphenol	T16	AR	10	µg/l		**8800**	**20**	<10	<10	**10**
Bis (2-chloroethyl) ether	T16	AR	10	µg/l		**(27) 16000**	<10	<10	<10	**18**
Phenol	T16	AR	10	µg/l		**460**	<10	<10	<10	<10

SAL Reference: 221391
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton SVOC Suite

					SAL Reference	**221391 006**	**221391 007**	**221391 008**	**221391 009**	**221391 010**
					Customer Sample Reference	**BHB1**	**BH4**	**BH9**	**BH11**	**S3/4**
					Date Sampled	**25-NOV-2010**	**25-NOV-2010**	**26-NOV-2010**	**26-NOV-2010**	**26-NOV-2010**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**						
2,4,6-Trichlorophenol	T16	AR	10	µg/l		<10	<10	<10	<10	<10
2-Methyl-4,6-dinitrophenol	T16	AR	10	µg/l		<10	<10	<10	<10	<10
4-Chloro-2-methylphenol	T16	AR	10	µg/l		**1300**	**1700**	<10	<10	**270**
Bis (2-chloroethyl) ether	T16	AR	10	µg/l		**260**	**230**	**320**	**29**	**1700**
Phenol	T16	AR	10	µg/l		<10	<10	<10	<10	<10

SAL Reference: 221391
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton SVOC Suite

					SAL Reference	**221391 011**	**221391 012**	**221391 013**	**221391 014**	**221391 015**
					Customer Sample Reference	**N3**	**Riddy Downstream**	**Cam Downstream**	**Riddy Upstream**	**Cam Upstream**
					Date Sampled	**26-NOV-2010**	**26-NOV-2010**	**26-NOV-2010**	**26-NOV-2010**	**26-NOV-2010**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**						
2,4,6-Trichlorophenol	T16	AR	10	µg/l		<10	<10	<10	<10	<10
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	<10	<10	<10
Bis (2-chloroethyl) ether	T16	AR	10	µg/l		<10	<10	<10	<10	<10
Phenol	T16	AR	10	µg/l		<10	<10	<10	<10	<10

SAL Reference: 221391
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton VOC Suite

				SAL Reference	**221391 001**	**221391 002**	**221391 003**	**221391 004**	**221391 005**
				Customer Sample Reference	**S3/6**	**VF12**	**BH8/06**	**BH6/06**	**S2/6**
				Date Sampled	**24-NOV-2010**	**24-NOV-2010**	**24-NOV-2010**	**25-NOV-2010**	**25-NOV-2010**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
1,2-Dichlorobenzene	T54	AR	1	µg/l	**140**	<1	<1	<1	<1
1,2-Dichloroethane	T54	AR	1	µg/l	**(19) 460**	<1	<1	<1	<1
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	**(19) 2000**	**7**	**1**	<1	**1**
Cyclohexanone	T54	AR	10	µg/l	**(5) 930**	<10	<10	<10	<10
Tetrachloroethene	T54	AR	1	µg/l	(19) <1	<1	<1	<1	<1
Toluene	T54	AR	1	µg/l	**(19) 2400**	**5**	**7**	**37**	**28**
Trichloroethylene	T54	AR	1	µg/l	**4600**	**27**	**20**	**19**	**20**
Vinyl chloride	T54	AR	1	µg/l	**230**	**3**	<1	<1	<1
Xylene (Total)	T54	AR	1	µg/l	**790**	**2**	<1	<1	<1

SAL Reference: 221391
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton VOC Suite

				SAL Reference	**221391 006**	**221391 007**	**221391 008**	**221391 009**	**221391 010**
				Customer Sample Reference	**BHB1**	**BH4**	**BH9**	**BH11**	**S3/4**
				Date Sampled	**25-NOV-2010**	**25-NOV-2010**	**26-NOV-2010**	**26-NOV-2010**	**26-NOV-2010**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
1,2-Dichlorobenzene	T54	AR	1	µg/l	**2**	<1	<1	<1	<1
1,2-Dichloroethane	T54	AR	1	µg/l	**24**	**13**	<1	**8**	<1
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	**(19) 1100**	**540**	**3**	**2**	<1
Cyclohexanone	T54	AR	10	µg/l	<10	<10	<10	<10	<10
Tetrachloroethene	T54	AR	1	µg/l	<1	<1	<1	<1	<1
Toluene	T54	AR	1	µg/l	**11**	**45**	<1	<1	**46**
Trichloroethylene	T54	AR	1	µg/l	**3**	**33**	<1	<1	<1
Vinyl chloride	T54	AR	1	µg/l	**540**	**110**	<1	<1	<1
Xylene (Total)	T54	AR	1	µg/l	**150**	**20**	<1	<1	**65**

SAL Reference: 221391
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton VOC Suite

				SAL Reference	**221391 011**	**221391 012**	**221391 013**	**221391 014**	**221391 015**
				Customer Sample Reference	**N3**	**Riddy Downstream**	**Cam Downstream**	**Riddy Upstream**	**Cam Upstream**
				Date Sampled	**26-NOV-2010**	**26-NOV-2010**	**26-NOV-2010**	**26-NOV-2010**	**26-NOV-2010**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
1,2-Dichlorobenzene	T54	AR	1	µg/l	<1	<1	<1	<1	<1
1,2-Dichloroethane	T54	AR	1	µg/l	<1	<1	<1	<1	<1
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	<1	**3**	<1	<1	<1
Cyclohexanone	T54	AR	10	µg/l	<10	<10	<10	<10	<10
Tetrachloroethene	T54	AR	1	µg/l	<1	<1	<1	<1	<1
Toluene	T54	AR	1	µg/l	<1	<1	<1	<1	<1
Trichloroethylene	T54	AR	1	µg/l	**1**	**4**	<1	<1	<1
Vinyl chloride	T54	AR	1	µg/l	<1	<1	<1	<1	<1
Xylene (Total)	T54	AR	1	µg/l	<1	<1	<1	<1	<1

Index to symbols used in 221391-1

Value	Description
AR	As Received
5	Results are Semiquantitative
9	LOD raised due to dilution of sample
27	Result should be considered as a minimum due to detector saturation.

19	Due to high levels the analysis was conducted on a diluted sample
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
Tetrachloroethene	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

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

Scientific Analysis Laboratories

Certificate of Analysis

Hadfield House
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Tel : 0161 874 2400
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Report Number: 223297-1

Date of Report: 06-Jan-2011

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: 23-Dec-2010
Date Analysis Started: 23-Dec-2010
Date Analysis Completed: 06-Jan-2011

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation

Tests covered by this certificate were conducted in accordance with SAL SOPs

UKAS TESTING
1549

Report checked and authorised by :
Amelia McVennon
Project Manager

Issued by :
Amelia McVennon
Project Manager

SAL Reference: 223297
Customer Reference: 907BRI

Water Analysed as Water
Vertase Hauxton Suite

				SAL Reference	**223297 001**	**223297 002**	**223297 003**	**223297 004**	**223297 008**	**223297 009**	**223297 010**
				Customer Sample Reference	**S3/6**	**VF12**	**BH8/06**	**BH6/06**	**BH9**	**BH11**	**S3/4**
				Date Sampled	**22-OCT-2010**	**22-OCT-2010**	**22-OCT-2010**	**22-OCT-2010**	**22-OCT-2010**	**22-OCT-2010**	**22-OCT-2010**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**							
Electrical Conductivity	T7	AR	10	µS/cm	**2400**	**810**	**4100**	**840**	**2000**	**1100**	**3400**
pH	T7	AR			**7.5**	**7.5**	**7.4**	**7.7**	**7.3**	**7.7**	**7.3**

SAL Reference: 223297
Customer Reference: 907BRI

Water Analysed as Water
Vertase Hauxton Suite

				SAL Reference	**223297 011**	**223297 012**	**223297 013**	**223297 014**	**223297 015**
				Customer Sample Reference	**N3**	**RIDDY DOWN**	**CAM DOWN**	**RIDDY UP**	**CAM UP**
				Date Sampled	**22-OCT-2010**	**22-OCT-2010**	**22-OCT-2010**	**22-OCT-2010**	**22-OCT-2010**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Electrical Conductivity	T7	AR	10	µS/cm	**1600**	**850**	**770**	**790**	**760**
pH	T7	AR			**7.3**	**8.1**	**8.1**	**8.1**	**8.0**

SAL Reference: 223297
Customer Reference: 907BRI

Water Analysed as Water
Vertase Hauxton OP/ON Suite

				SAL Reference	**223297 001**	**223297 002**	**223297 003**	**223297 004**	**223297 008**	**223297 009**	**223297 010**
				Customer Sample Reference	**S3/6**	**VF12**	**BH8/06**	**BH6/06**	**BH9**	**BH11**	**S3/4**
				Date Sampled	**22-OCT-2010**	**22-OCT-2010**	**22-OCT-2010**	**22-OCT-2010**	**22-OCT-2010**	**22-OCT-2010**	**22-OCT-2010**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**							
Dimefox	T16	AR	0.1	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethofumesate	T16	AR	0.1	µg/l	**290**	**460**	**0.5**	**3.4**	**20**	**0.6**	**3.1**
Hempa	T16	AR	0.1	µg/l	<0.1	<0.1	**0.6**	<0.1	**0.5**	<0.1	<0.1
Schradan	T16	AR	0.1	µg/l	**340**	<0.1	<0.1	<0.1	**0.3**	**0.3**	**47**
Simazine	T16	AR	0.01	µg/l	**3.3**	**3.1**	**0.27**	<0.01	<0.01	**1.4**	<0.01

SAL Reference: 223297
Customer Reference: 907BRI

Water Analysed as Water
Vertase Hauxton OP/ON Suite

				SAL Reference	**223297 011**	**223297 012**	**223297 013**	**223297 014**	**223297 015**
				Customer Sample Reference	**N3**	**RIDDY DOWN**	**CAM DOWN**	**RIDDY UP**	**CAM UP**
				Date Sampled	**22-OCT-2010**	**22-OCT-2010**	**22-OCT-2010**	**22-OCT-2010**	**22-OCT-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	**0.5**	<0.1	<0.1	<0.1	<0.1
Hempa	T16	AR	0.1	µg/l	**0.2**	<0.1	<0.1	<0.1	<0.1
Schradan	T16	AR	0.1	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1
Simazine	T16	AR	0.01	µg/l	**0.03**	<0.01	<0.01	<0.01	<0.01

SAL Reference: 223297
Customer Reference: 907BRI

Water Analysed as Water
Vertase Hauxton Phenoxy Acid Herbs Suite

	SAL Reference	223297 001	223297 002	223297 003	223297 004	223297 008	223297 009	223297 010
	Customer Sample Reference	S3/6	VF12	BH8/06	BH6/06	BH9	BH11	S3/4
	Date Sampled	22-OCT-2010	22-OCT-2010	22-OCT-2010	22-OCT-2010	22-OCT-2010	22-OCT-2010	22-OCT-2010
Determinand	**Method** / **Test Sample** / **LOD** / **Units**							
Dicamba	T16 / AR / 0.1 / µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorprop	T16 / AR / 0.1 / µg/l	**0.8**	**0.2**	**0.2**	<0.1	<0.1	<0.1	<0.1
Phenoxy Acetic acid herbicide: MCPA	T16 / AR / 0.1 / µg/l	**1.5**	<0.1	**0.2**	<0.1	<0.1	<0.1	<0.1
Mecoprop	T16 / AR / 0.1 / µg/l	**1.8**	**0.3**	**0.2**	<0.1	**0.2**	<0.1	**0.2**

SAL Reference: 223297
Customer Reference: 907BRI

Water Analysed as Water
Vertase Hauxton Phenoxy Acid Herbs Suite

	SAL Reference	223297 011	223297 012	223297 013	223297 014	223297 015
	Customer Sample Reference	N3	RIDDY DOWN	CAM DOWN	RIDDY UP	CAM UP
	Date Sampled	22-OCT-2010	22-OCT-2010	22-OCT-2010	22-OCT-2010	22-OCT-2010
Determinand	**Method** / **Test Sample** / **LOD** / **Units**					
Dicamba	T16 / AR / 0.1 / µg/l	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorprop	T16 / AR / 0.1 / µg/l	<0.1	<0.1	<0.1	<0.1	<0.1
Phenoxy Acetic acid herbicide: MCPA	T16 / AR / 0.1 / µg/l	<0.1	<0.1	<0.1	<0.1	<0.1
Mecoprop	T16 / AR / 0.1 / µg/l	<0.1	<0.1	<0.1	<0.1	<0.1

SAL Reference: 223297
Customer Reference: 907BRI

Water Analysed as Water
Vertase Hauxton SVOC Suite

	SAL Reference	223297 001	223297 002	223297 003	223297 004	223297 008	223297 009	223297 010
	Customer Sample Reference	S3/6	VF12	BH8/06	BH6/06	BH9	BH11	S3/4
	Date Sampled	22-OCT-2010	22-OCT-2010	22-OCT-2010	22-OCT-2010	22-OCT-2010	22-OCT-2010	22-OCT-2010
Determinand	**Method** / **Test Sample** / **LOD** / **Units**							
2,4,6-Trichlorophenol	T16 / AR / 10 / µg/l	**2400**	<10	**10**	<10	<10	<10	<10
2-Methyl-4,6-dinitrophenol	T16 / AR / 10 / µg/l	<10	<10	<10	<10	<10	<10	<10
4-Chloro-2-methylphenol	T16 / AR / 10 / µg/l	**4700**	<10	<10	<10	<10	<10	**30**
Bis (2-chloroethyl) ether	T16 / AR / 10 / µg/l	**12000**	**10**	**10**	<10	**350**	<10	**2400**
Phenol	T16 / AR / 10 / µg/l	<10	<10	<10	<10	<10	<10	<10

SAL Reference: 223297
Customer Reference: 907BRI

Water Analysed as Water
Vertase Hauxton SVOC Suite

	SAL Reference	223297 011	223297 012	223297 013	223297 014	223297 015
	Customer Sample Reference	N3	RIDDY DOWN	CAM DOWN	RIDDY UP	CAM UP
	Date Sampled	22-OCT-2010	22-OCT-2010	22-OCT-2010	22-OCT-2010	22-OCT-2010
Determinand	**Method** / **Test Sample** / **LOD** / **Units**					
2,4,6-Trichlorophenol	T16 / AR / 10 / µg/l	<10	<10	<10	<10	<10
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	<10	<10	<10
Bis (2-chloroethyl) ether	T16 / AR / 10 / µg/l	<10	<10	<10	<10	<10
Phenol	T16 / AR / 10 / µg/l	<10	<10	<10	<10	<10

SAL Reference: 223297
Customer Reference: 907BRI

Water Analysed as Water
Vertase Hauxton VOC Suite

	SAL Reference	223297 001	223297 002	223297 003	223297 004	223297 008	223297 009	223297 010
	Customer Sample Reference	S3/6	VF12	BH8/06	BH6/06	BH9	BH11	S3/4
	Date Sampled	22-OCT-2010	22-OCT-2010	22-OCT-2010	22-OCT-2010	22-OCT-2010	22-OCT-2010	22-OCT-2010
Determinand	**Method** / **Test Sample** / **LOD** / **Units**							
1,2-Dichlorobenzene	T54 / AR / 1 / µg/l	(19) 210	3	2	1	<1	<1	<1
1,2-Dichloroethane	T54 / AR / 1 / µg/l	(19) 440	<1	<1	<1	<1	<1	<1
Cis-1,2-Dichloroethylene	T54 / AR / 1 / µg/l	(19) 2700	10	5	<1	<1	1	<1
Cyclohexanone	T54 / AR / 10 / µg/l	(19) 210	<10	<10	<10	<10	<10	<10
Tetrachloroethene	T54 / AR / 1 / µg/l	(19) 15000	220	160	150	<1	<1	<1
Toluene	T54 / AR / 1 / µg/l	(19) 4200	16	4	15	<1	<1	2
Trichloroethene	T54 / AR / 1 / µg/l	(19) 8800	43	42	28	<1	<1	<1
Vinyl chloride	T54 / AR / 1 / µg/l	(19) 260	5	<1	<1	<1	<1	<1
Xylene (Total)	T54 / AR / 1 / µg/l	(19) 1500	17	3	6	<1	<1	7

SAL Reference: 223297
Customer Reference: 907BRI

Water Analysed as Water
Vertase Hauxton VOC Suite

	SAL Reference	223297 011	223297 012	223297 013	223297 014	223297 015
	Customer Sample Reference	N3	RIDDY DOWN	CAM DOWN	RIDDY UP	CAM UP
	Date Sampled	22-OCT-2010	22-OCT-2010	22-OCT-2010	22-OCT-2010	22-OCT-2010
Determinand	**Method** / **Test Sample** / **LOD** / **Units**					
1,2-Dichlorobenzene	T54 / AR / 1 / µg/l	<1	<1	<1	<1	<1
1,2-Dichloroethane	T54 / AR / 1 / µg/l	<1	<1	<1	<1	<1
Cis-1,2-Dichloroethylene	T54 / AR / 1 / µg/l	<1	2	<1	<1	<1
Cyclohexanone	T54 / AR / 10 / µg/l	<10	<10	<10	<10	<10
Tetrachloroethene	T54 / AR / 1 / µg/l	<1	1	1	1	<1
Toluene	T54 / AR / 1 / µg/l	<1	<1	<1	<1	<1
Trichloroethene	T54 / AR / 1 / µg/l	1	3	<1	1	<1
Vinyl chloride	T54 / AR / 1 / µg/l	<1	<1	<1	<1	<1
Xylene (Total)	T54 / AR / 1 / µg/l	<1	<1	<1	<1	<1

Index to symbols used in 223297-1

Value	Description
AR	As Received
19	Due to high levels the analysis was conducted on a diluted sample
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	001-004,008-015
pH	T7	AR			U	001-004,008-015
Dimefox	T16	AR	0.1	µg/l	N	001-004,008-015
Ethofumesate	T16	AR	0.1	µg/l	N	001-004,008-015
Hempa	T16	AR	0.1	µg/l	N	001-004,008-015
Schradan	T16	AR	0.1	µg/l	N	001-004,008-015
Simazine	T16	AR	0.01	µg/l	N	001-004,008-015
Dicamba	T16	AR	0.1	µg/l	N	001-004,008-015

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Dichlorprop	T16	AR	0.1	µg/l	N	001-004,008-015
Phenoxy Acetic acid herbicide: MCPA	T16	AR	0.1	µg/l	N	001-004,008-015
Mecoprop	T16	AR	0.1	µg/l	N	001-004,008-015
2,4,6-Trichlorophenol	T16	AR	10	µg/l	U	001-004,008-015
2-Methyl-4,6-dinitrophenol	T16	AR	10	µg/l	N	001-004,008-015
4-Chloro-2-methylphenol	T16	AR	10	µg/l	N	001-004,008-015
Bis (2-chloroethyl) ether	T16	AR	10	µg/l	U	001-004,008-015
Phenol	T16	AR	10	µg/l	U	001-004,008-015
1,2-Dichlorobenzene	T54	AR	1	µg/l	U	001-004,008-015
1,2-Dichloroethane	T54	AR	1	µg/l	U	001-004,008-015
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	U	001-004,008-015
Cyclohexanone	T54	AR	10	µg/l	N	001-004,008-015
Tetrachloroethene	T54	AR	1	µg/l	U	001-004,008-015
Toluene	T54	AR	1	µg/l	U	001-004,008-015
Trichloroethene	T54	AR	1	µg/l	U	001-004,008-015
Vinyl chloride	T54	AR	1	µg/l	U	001-004,008-015
Xylene (Total)	T54	AR	1	µg/l	U	001-004,008-015

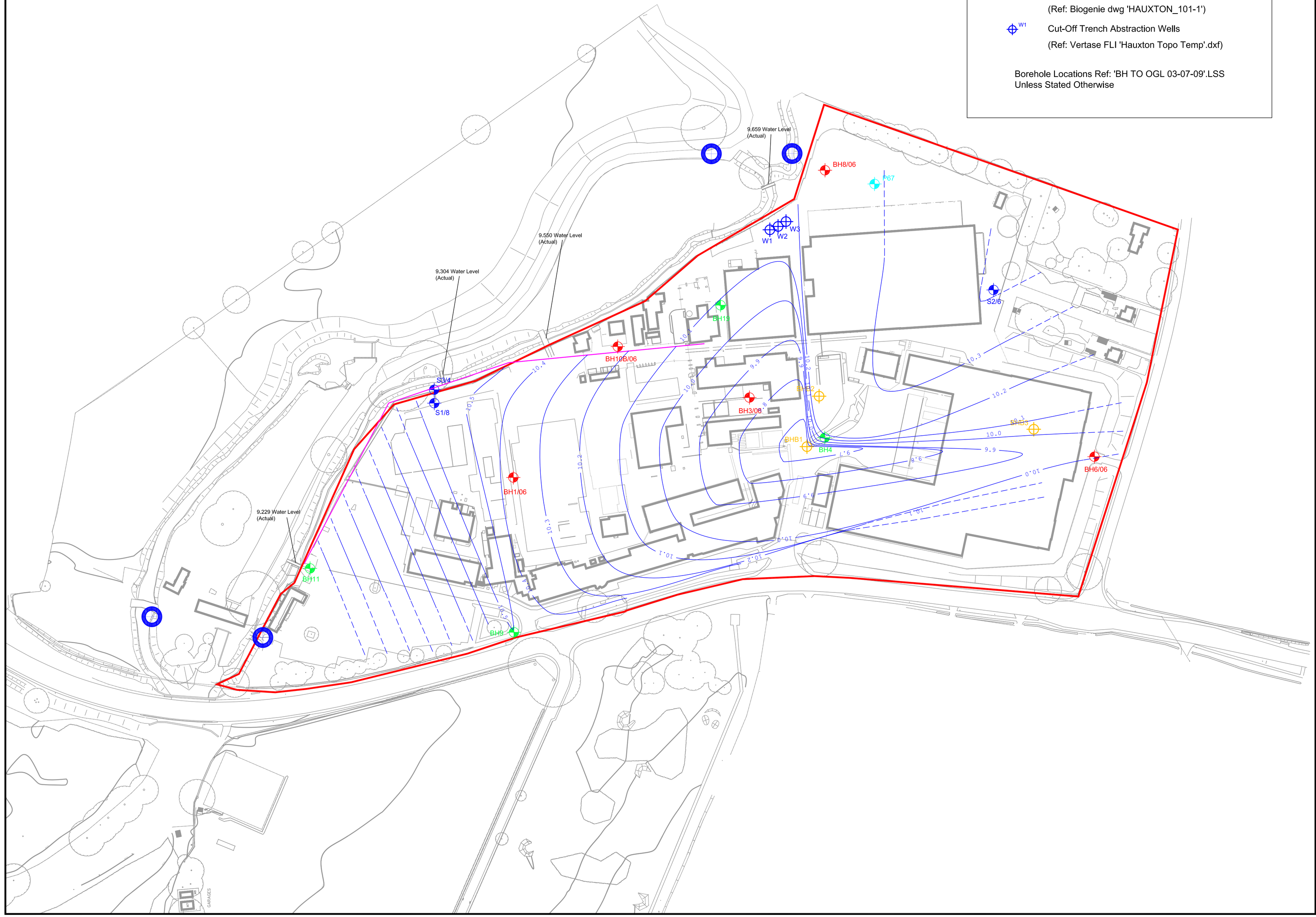
Appendix G
Groundwater Contour Plots

A1

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		10-01-11

Vertase F.L.I.

Bristol Head Office: Tel: 01275 397600 Fax: 01275 397601
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Site Address:
Bayer Site
Hauxton
Cambridge

Rev:

Title: Ground Water Contours 02-12-10

Client: Harrow Estates

Drawn: MRG	Checked: MA	Approved: MA
Dwg: D907_131	Contract: 907 BRI	Scale: 1:1000

A1

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)
- VF12 — New VFLI Monitoring Wells

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

9.649 Water Level (Actual)
9.540 Water Level (Actual)
9.294 Water Level (Actual)
9.209 Water Level (Actual)
W1 W2 W3
VF12
VN3/6
S3/4
S2/6
BH11
BH9
BH4
BHB1
BH6/06
GARAGES

Rev.	Description	Revised By	Date
	FIRST ISSUE		10-01-11

Vertase F.L.I.

- Bristol Head Office: Tel: 01275 397600 Fax: 01275 397601
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Site Address:
Bayer Site
Hauxton
Cambridge

Rev:

Title: Ground Water Contours 09-12-10

Client: Harrow Estates

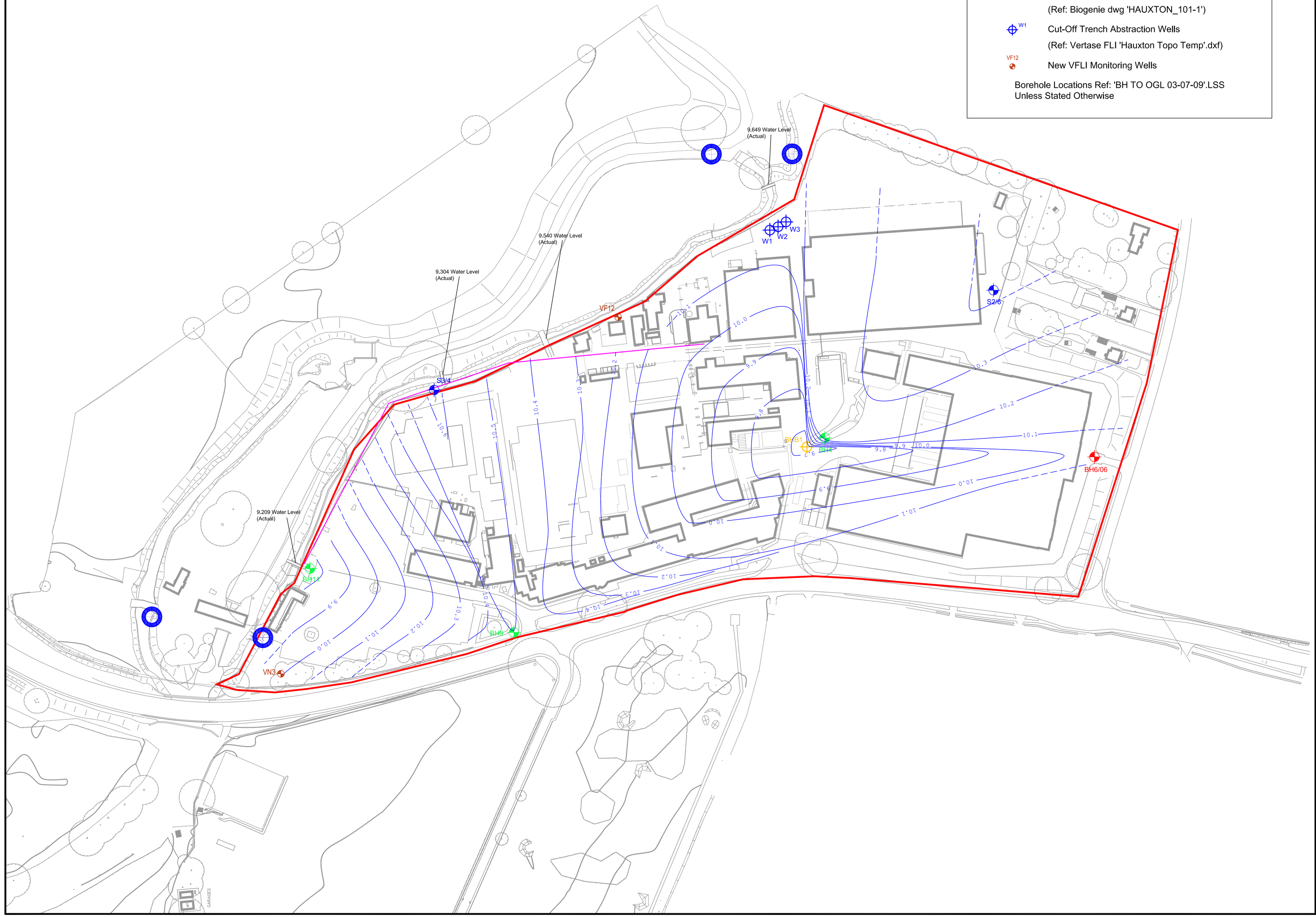
Drawn: MRG	Checked: MA	Approved: MA
Dwg: D907_132	Contract: 907 BRI	Scale: 1:1000

A1

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)
- VF12 — New VFLI Monitoring Wells

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



Rev.	Description	Revised By	Date
	FIRST ISSUE		10-01-11

Vertase F.L.I.

- Bristol Head Office: Tel: 01275 397600 Fax: 01275 397601
- Sheffield Office: Tel: 01246 813289 Fax: 01246 812963
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email: info@vertasefli.co.uk
www.vertasefli.com

Site Address:
Bayer Site
Hauxton
Cambridge

Rev:

Title: Ground Water Contours 16-12-10

Client: Harrow Estates

Drawn: MRG	Checked: MA	Approved: MA
Dwg: D907_133	Contract: 907 BRI	Scale: 1:1000

Appendix H

Waste Water Treatment Plant Discharge Analysis

Water Quality Analysis of Effluent Discharge Sample

				Bromide	Chloride	Sulphate Ion	Suspended Solids (Total)	Ammoniacal Nitrogen	Biochemical Oxygen Demand	pH	Atrazine	Trietazine	Simazine	Total Atrazine, Trietazine and Simazine	Benazolin	2,3,6-TBA	Dicamba	Hempa	Schradan
Sample Taken	Report Date	Report Number	Sample Location	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l		µg/l	µg/l	µg/l	ug/l	µg/l	µg/l	µg/l	µg/l	µg/l
Consented Levels				*50*	*3000*	*5000*	*45*	*15*	*30*	*na*	*Total of all three*			*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	6.6	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
01/09/2010	09/09/2010	211356	WWTW Discharge	2.6	180.00	280.00	<10	<0.05	5	8.1	<0.01	<0.01	<0.01	0.00	<0.1	<0.1	<0.1	2.9	<0.1
16/09/2010	29/09/2010	212901	WWTW Discharge	<1.0	86.00	170.00	<10	0.08	<3	7.9	<0.01	<0.01	<0.01	0.00	<0.1	<0.1	<0.1	24	3.5
24/09/2010	04/10/2010	213745	WWTW Discharge	<1.0	160.00	340.00	35	<0.05	<3	8.0	<0.01	<0.01	<0.01	0.00	<0.1	<0.1	<0.1	24	0.6
08/10/2010	21/10/2010	215625	WWTW Discharge	<1.0	150.00	270.00	<10	<0.05	<3	8.2	<0.01	<0.01	<0.01	0.00	<0.1	<0.1	<0.1	52	2.2
21/10/2010	01/11/2010	216826	WWTW Discharge	<1.0	200.00	240.00	11	<0.05	<3	7.7	<0.01	<0.01	<0.01	0.00	<0.1	<0.1	<0.1	24	9.4
10/11/2010	22/11/2010	218850	WWTW Discharge	<1.0	81.00	120.00	<10	<0.05	<3	8.1	<0.01	0.03	<0.01	0.03	<0.1	0.7	<0.1	15	6.2
16/11/2010	23/11/2010	219447	WWTW Discharge	<1.0	150.00	160.00	<10	<0.05	<3	8.0	<0.01	<0.01	<0.01	0.00	<0.1	0.9	0.1	14	24
09/12/2010	23/12/2010	222558	WWTW Discharge	<2.0	64.00	120.00	<10	0.73	<3	8.1	<0.01	<0.01	<0.01	0.00	<0.1	2.9	0.3	10	5.1
22/12/2010	13/01/2011	223307	WWTW Discharge	<1.0	66.00	100.00	<10	<0.05	<3	8.0	<0.01	<0.01	<0.01	0.00	<0.1	<0.1	<0.1	11	8.5

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

Scientific Analysis Laboratories

Certificate of Analysis

Hadfield House
Hadfield Street
Cornbrook
Manchester
M16 9FE
Tel : 0161 874 2400
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Report Number: 222558-1

Date of Report: 23-Dec-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: 16-Dec-2010
Date Analysis Started: 17-Dec-2010
Date Analysis Completed: 23-Dec-2010

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation

Tests covered by this certificate were conducted in accordance with SAL SOPs

UKAS TESTING
1549

Report checked and authorised by :
Amelia McVennon
Project Manager

Issued by :
Amelia McVennon
Project Manager

SAL Reference: 222558
Customer Reference: 907BRI

Water Analysed as Water
Miscellaneous

					SAL Reference	**222558 001**	**222558 002**
					Customer Sample Reference	**WWTW DISCHARGE**	**WWTW PRIMARY B**
					Date Sampled	**09-DEC-2010**	**09-DEC-2010**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Ammoniacal nitrogen	T4	AR	50	µg/l	**730**	**190**
Biochemical Oxygen Demand	T7	AR	3000	µg/l	<3000	<3000
pH	T7	AR			**8.1**	**8.2**

SAL Reference: 222558
Customer Reference: 907BRI

Water Analysed as Water
Suite A

					SAL Reference	**222558 001**	**222558 002**
					Customer Sample Reference	**WWTW DISCHARGE**	**WWTW PRIMARY B**
					Date Sampled	**09-DEC-2010**	**09-DEC-2010**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Atrazine	T16	AR	0.01	µg/l	<0.01	**1.9**
Trietazine	T16	AR	0.01	µg/l	<0.01	**8.1**

SAL Reference: 222558
Customer Reference: 907BRI

Water Analysed as Water
Suite B

					SAL Reference	**222558 001**	**222558 002**
					Customer Sample Reference	**WWTW DISCHARGE**	**WWTW PRIMARY B**
					Date Sampled	**09-DEC-2010**	**09-DEC-2010**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Benazolin	T16	AR	0.1	µg/l	<0.1	<0.1
2,3,6-TCB	T16	AR	0.1	µg/l	**2.9**	**39**

SAL Reference: 222558
Customer Reference: 907BRI

Water Analysed as Water
Suite C

					SAL Reference	**222558 001**	**222558 002**
					Customer Sample Reference	**WWTW DISCHARGE**	**WWTW PRIMARY B**
					Date Sampled	**09-DEC-2010**	**09-DEC-2010**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Bromide	T253	AR	100	µg/l	<2000	<2000
Chloride	T253	AR	200	µg/l	**64000**	**60000**
Sulphate ion	T253	AR	100	µg/l	**120000**	**120000**
Suspended Solids (Total)	T2	AR	10000	µg/l	<10000	<10000

SAL Reference: 222558
Customer Reference: 907BRI

Water Analysed as Water
Suite D

				SAL Reference	**222558 001**	**222558 002**
				Customer Sample Reference	**WWTW DISCHARGE**	**WWTW PRIMARY B**
				Date Sampled	**09-DEC-2010**	**09-DEC-2010**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Dicamba	T16	AR	0.1	µg/l	**0.3**	**0.4**
Hempa	T16	AR	0.1	µg/l	**10**	**5.8**
Schradan	T16	AR	0.1	µg/l	**5.1**	**3.1**
Simazine	T16	AR	0.01	µg/l	<0.01	**0.88**

SAL Reference: 222558
Customer Reference: 907BRI

Water Analysed as Water
Suite E

				SAL Reference	**222558 001**	**222558 002**
				Customer Sample Reference	**WWTW DISCHARGE**	**WWTW PRIMARY B**
				Date Sampled	**09-DEC-2010**	**09-DEC-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	**3200**	> **10000**

Index to symbols used in 222558-1

Value	Description
AR	As Received
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
T7	Probe
T16	GC/MS
T253	IC(EID299)
T4	Colorimetry
T34	Micro
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	WU	001-002
Chloride	T253	AR	200	µg/l	WU	001-002
Sulphate ion	T253	AR	100	µg/l	WU	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

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
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

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Scientific Analysis Laboratories

Certificate of Analysis

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Tel : 0161 874 2400
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Report Number: 223307-1

Date of Report: 13-Jan-2011

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: 23-Dec-2010
Date Analysis Started: 04-Jan-2011
Date Analysis Completed: 13-Jan-2011

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation

Tests covered by this certificate were conducted in accordance with SAL SOPs

UKAS TESTING
1549

Report checked and authorised by :
Amelia McVennon
Project Manager

Issued by :
Amelia McVennon
Project Manager

SAL Reference: 223307
Customer Reference: 907BRI

Water Analysed as Water
Miscellaneous

					SAL Reference	**223307 001**	**223307 002**
					Customer Sample Reference	**WWTW DISCHARGE**	**WWTW PRIMARY B**
					Date Sampled	**22-DEC-2010**	**22-DEC-2010**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Ammoniacal nitrogen	T4	AR	50	µg/l	<50	<50
Biochemical Oxygen Demand	T7	AR	3000	µg/l	<3000	<3000
pH	T7	AR			**8.0**	**8.0**

SAL Reference: 223307
Customer Reference: 907BRI

Water Analysed as Water
Suite A

					SAL Reference	**223307 001**	**223307 002**
					Customer Sample Reference	**WWTW DISCHARGE**	**WWTW PRIMARY B**
					Date Sampled	**22-DEC-2010**	**22-DEC-2010**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Atrazine	T16	AR	0.01	µg/l	<0.01	**0.29**
Trietazine	T16	AR	0.01	µg/l	<0.01	**2.9**

SAL Reference: 223307
Customer Reference: 907BRI

Water Analysed as Water
Suite B

					SAL Reference	**223307 001**	**223307 002**
					Customer Sample Reference	**WWTW DISCHARGE**	**WWTW PRIMARY B**
					Date Sampled	**22-DEC-2010**	**22-DEC-2010**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Benazolin	T16	AR	0.1	µg/l	<0.1	<0.1
2,3,6-TCB	T16	AR	0.1	µg/l	<0.1	<0.1

SAL Reference: 223307
Customer Reference: 907BRI

Water Analysed as Water
Suite C

					SAL Reference	**223307 001**	**223307 002**
					Customer Sample Reference	**WWTW DISCHARGE**	**WWTW PRIMARY B**
					Date Sampled	**22-DEC-2010**	**22-DEC-2010**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Bromide	T253	AR	100	µg/l	(9) <1000	<100
Chloride	T253	AR	200	µg/l	**66000**	**73000**
Sulphate ion	T253	AR	100	µg/l	**100000**	**130000**
Suspended Solids (Total)	T2	AR	10000	µg/l	<10000	<10000

SAL Reference: 223307
Customer Reference: 907BRI

Water Analysed as Water
Suite D

	SAL Reference	223307 001	223307 002
	Customer Sample Reference	WWTW DISCHARGE	WWTW PRIMARY B
	Date Sampled	22-DEC-2010	22-DEC-2010

Determinand	Method	Test Sample	LOD	Units		
Dicamba	T16	AR	0.1	µg/l	<0.1	<0.1
Hempa	T16	AR	0.1	µg/l	**11**	**9.4**
Schradan	T16	AR	0.1	µg/l	**8.5**	**3.4**
Simazine	T16	AR	0.01	µg/l	<0.01	**0.21**

SAL Reference: 223307
Customer Reference: 907BRI

Water Analysed as Water
Suite E

	SAL Reference	223307 001	223307 002
	Customer Sample Reference	WWTW DISCHARGE	WWTW PRIMARY B
	Date Sampled	22-DEC-2010	22-DEC-2010

Determinand	Method	Test Sample	LOD	Units		
TVC at 22 C after 3 days	T34	AR	10	cfu/ml	**3200**	**5100**
TVC at 37°C after 2 days	T34	AR	10	cfu/ml	**2000**	**1800**

Index to symbols used in 223307-1

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

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	WU	001-002
Chloride	T253	AR	200	µg/l	WU	001-002
Sulphate ion	T253	AR	100	µg/l	WU	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

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
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

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.
			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

07.05.2010	24.05.2010 (09.06.2010)	L8	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		
13.05.2010	24.05.2010 (09.06.2010)	I9	2,4-Dichloro-o-cresol	29,000	Potential herbicide degradation product
			2,3,6-Trichlorotoluene	47,000	
			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	J8	2-methyl phenol	5,500	Encountered and assessed during site investigation, not a priority contaminant

18.06.2010	29.06.2010	I8	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	Encountered and assessed during site investigation, not a priority contaminant
			2-methylnaphthalene	3,900,000	
			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.
21.07.2010	22.07.2010	J10	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
			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	Potential herbicide degradation product
			2,3-Dichlorotoluene *CAS 32768-54-0*	290,000	
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
			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
			Phenanthrene	200	Encountered and assessed during site investigation, not a priority contaminant
			Fluoranthene	300	
			Pyrene	300	
			Benzo(b/k)Fluoranthene	200	
01.09.2010	N/A	I14	Trichloro methyl benzene (trichloro toluene)	400	Same as I9, J10, H10, I10, K13, J11

01.09.2010	N/A	I15	Dichlorocresol	2600	As for I9, H7, K10, J10, L11, H10, I10, L12, K12, K13, J11, J12
			Dichlorophenoxybutyric acid	6300	Herbicide encountered and assessed during site investigation, similar to MCPA and Mecoprop which are higher risk substances, therefore not a priority contaminant
01.09.2010	N/A	H14	No VOC/SVOC peaks detected		
01.09.2010	N/A	H15	No VOC/SVOC peaks detected		
03.09.2010	N/A	I11	Dichlorocresol	3,300	As for I9, H7, K10, J10, L11, H10, I10, L12, K12, K13, J11, J12, I15
			Trichloro methyl benzene (trichloro toluene)	1,000	Same as I9, J10, H10, I10, K13, J11, I14
			Prochloraz CAS 67747-09-5	800	Same as H9
03.09.2010	N/A	I12	1-methylnaphthalene CAS 90-12-0	40,000	Same as K10NAPL, I13
			Dibenzofuran	24,000	Encountered and assessed during site investigation, not a priority contaminant
			Phenanthrene	60,000	
			Fluoranthene	29,000	
			Acenaphthene	31,000	
24.09.2010	N/A	J15	Methylpropyl phenol	340	Encountered and assessed during site investigation, not a priority contaminant
24.09.2010	28.09.2010	H13	Oxathiane 4,4-dioxide CAS 107-61-9	220	
	N/A		Trichloro methyl benzene (trichloro toluene)	230	Same as I9, J10, H10, I10, K13, J11, I14, I11
			Dichloromethylphenol	2100	As for I9, H7, K10, J10, L11, H10, I10, L12, K12, K13, J11, J12, I15, I11
			1-(2-Chloroethoxy)-2-(o-Tolyloxy)-ethane CAS 21120-80-9	470	Same as I9, J10, K13
01.10.2010	N/A	H11	No VOC/SVOC peaks detected		
01.10.2010	05.10.2010	H12	Indane CAS 496-11-7	3700000	2-ring hydrocarbon
	N/A		Ethyltoluene (ethyl methyl benzene) isomer	4500000	As J14
			Bis methylpropyl phenol isomer	980000	As J16
			1,3,5-Trimethylbenzene	3900000	Encountered and assessed during site investigation, not a priority contaminant
			1,2,4-Trimethylbenzene	10000000	
			1,2,3-Trimethylbenzene	3100000	
22.10.2010 (216017)	25.10.2010	G12	Nicotine	6400	Natural insecticide
	N/A		Dichloromethyl phenol	2900	As for I9, H7, K10, J10, L11, H10, I10, L12, K12, K13, J11, J12, I15, I11, H13
			Methylpropyl phenol	9400	Encountered and assessed during site investigation, not a priority contaminant

			Schradan	1200	Contaminant of concern, already included in the standard validation suite
22.10.2010 (216017)	N/A	G13	1-methylnaphthalene CAS 90-12-0	170	Same as K10NAPL, I13, I12
			Isophorone CAS 78-59-1	530	Encountered and assessed during site investigation, not a priority contaminant
			Naphthalene	690	
			2-methylnaphthalene	270	
			Phenanthrene	410	
			Fluoranthene	380	
			Pyrene	310	
22.10.2010 (216017)	N/A	G14	No VOC/SVOC peaks detected		
29.10.2010 (216821)	N/A	H17	No VOC/SVOC peaks detected		
29.10.2010 (216821)	N/A	G17	No VOC/SVOC peaks detected		
01.11.2010 (216817)	30.11.2010	G10	Dibromochloromethane CAS 124-48-1	300	Risk Assessment
	N/A		Dichloromethyl phenol	1300	As for I9, H7, K10, J10, L11, H10, I10, L12, K12, K13, J11, J12, I15, I11, H13, G12
			Isophorone	7100	Encountered and assessed during site investigation, not a priority contaminant
			Benzyl Chloride (1-chloro-2-methylbenzene CAS 95-49-8)	200	
			Methylpropyl phenol	7100	
			3,3,5-trimethyl cyclohexanone	700	
01.11.2010 (216817)	N/A	G11	Dichloromethyl phenol	2300	As for I9, H7, K10, J10, L11, H10, I10, L12, K12, K13, J11, J12, I15, I11, H13, G12, G10
			Trichloro methyl benzene (trichloro toluene)	2400	Same as I9, J10, H10, I10, K13, J11, I14, I11, H13
			1-Methyl naphthalene	760	Same as K10NAPL, I13, I12, G13
			2-methyl phenol	800	Encountered and assessed during site investigation, not a priority contaminant
			Methylpropyl phenol	22000	
			2-Methylnaphthalene	1500	
			2,4,5-Trichlorophenol	360	
			Chloroform	500	
			1,2-dibromoethane	700	
			EthylBenzene	1800	
			1,4-Dichlorobenzene	700	
			1,2,3-Trichlorobenzene	2000	
01.11.2010 (216817)	30.11.2010	G15	Ethyl methyl phenol	18000	Risk Assessment
			Dimethyl naphthalene	59000	Risk Assessment

	N/A		Dichloromethyl phenol	2400	As for I9, H7, K10, J10, L11, H10, I10, L12, K12, K13, J11, J12, I15, I11, H13, G12, G10, G11
			1-Methyl naphthalene	26000	Same as K10NAPL, I13, I12, G13
			1-ethyl-3- methyl benzene (ethyl toluene)	600	As J14, H12
			Ethyltoluene	300	
			Isophorone	37000	Encountered and assessed during site investigation, not a priority contaminant
			Naphthalene	43000	
			Methylpropyl phenol	30000	
			2-Methylnaphthalene	21000	
			Phenanthrene	110000	
			Fluoranthene	69000	
			1,3,5-Trimethylbenzene	900	
			1,2,4-Trimethylbenzene	1600	
			1,2,3-Trimethylbenzene	400	
08.11.2010 (217789)	N/A	M7	No VOC/SVOC peaks detected		
08.11.2010 (217789)	N/A	M8	2-methyl phenol	11,000	Encountered and assessed during site investigation, not a priority contaminant
08.11.2010 (217793)	N/A	M6	No VOC/SVOC peaks detected		
08.11.2010 (217793)	N/A	N6	No VOC/SVOC peaks detected		
08.11.2010 (217795)	N/A	L5	No VOC/SVOC peaks detected		
08.11.2010 (217795)	N/A	M4	No VOC/SVOC peaks detected		
08.11.2010 (217797)	N/A	M5	No VOC/SVOC peaks detected		
08.11.2010 (217797)	N/A	N4	No VOC/SVOC peaks detected		
08.11.2010 (217797)	N/A	N5	No VOC/SVOC peaks detected		
08.11.2010 (217800)	N/A	M9	No VOC/SVOC peaks detected		
18.11.2010 (218834)	N/A	I6	No VOC/SVOC peaks detected		
23.11.2010 (219458)	N/A	L4	No VOC/SVOC peaks detected		
23.11.2010 (219456)	N/A	N3	No VOC/SVOC peaks detected		