











Environmental Monitoring Report

Reporting Period 02/08/2010-29/08/2010 Revision 1.

Former Bayer Crop Science Site Hauxton Cambridgeshire

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1.0 Introduction

1.1. General

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

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

1.2. The site

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

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

1.3. Remediation Brief and Philosophy

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



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

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

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



2.0 Monthly Progress

Week 21. Week Commencing 2nd August 2010

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

Week 22. Week Commencing 9th August 2010

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

Week 23. Week Commencing 16th August 2010

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



Week 24. Week Commencing 23rd August 2010

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



3.0 Environmental Monitoring Summary

The environmental monitoring locations detailed in the Environmental Permit deployment form for the site are highlighted in drawing D907 33C in Appendix A.

The detailed environmental monitoring data can be found in Appendix B, the following chapters summarise the 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. The odour controlling solutions used in the misting and telescopic fan systems vary in fragrance from lemon, to pine, to bubblegum.

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

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

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



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

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

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

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

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



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

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

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

3.2. Dust Fibre and Particulate Emission

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

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



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

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

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

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

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

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

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

3.3. Control of Mud and Debris

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



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

3.4. Noise

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

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

3.5. Litter

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



4.0 Surface and Ground Water Condition

4.1. Surface Water Monitoring

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

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

4.2. Surface Water Sampling and Analysis

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

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



4.3. Groundwater Level Monitoring

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

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

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

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

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

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

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

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



4.4. Groundwater Sampling and Analysis

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

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



5.0 Waste Water Treatment Plant

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

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

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

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

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

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



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

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



6.0 Contaminants Not Previously Identified

To fulfil the requirements of condition 4 and condition 9, Planning Condition Document ref:S/2307/06/f Issued 10/02/2010, Vertase FLI are continually undertaking soil characterisation sampling prior to remediation processes to identify the types and concentrations of

contaminants present in the specific grid squares across the entire site.

The soil characterisation samples undergo a series of laboratory analyses consisting of targeted

analysis, screening against known contaminants and a full GCMS scan to identify any

contaminants not previously identified.

All characterisation samples analysed and found to contain previously unidentified contaminants

are reported in accordance with condition 9 of the Planning Condition Document ref:S/2307/06/f

Issued 10/02/2010.

From the commencement of site works (15/03/2010) to 30/08/2010, thirty eight characterisation

samples have been taken by Vertase FLI in partnership with Atkins to assess the contamination

type and concentrations prior to remediation of the materials. Twenty two characterisation

samples analysed contained a total of seventeen compounds / potential contaminants that had

not been previously identified.

A summary table of the soil characterisation testing is presented in Appendix I, the previously

unidentified compounds are listed here, with comments regarding the origin and likely usage on

site.

The remediation project consultants Atkins continuously review the soil characterisation analysis

and report previously unidentified contaminates in accordance with condition 9, Planning

Condition Document ref:S/2307/06/f Issued 10/02/2010.

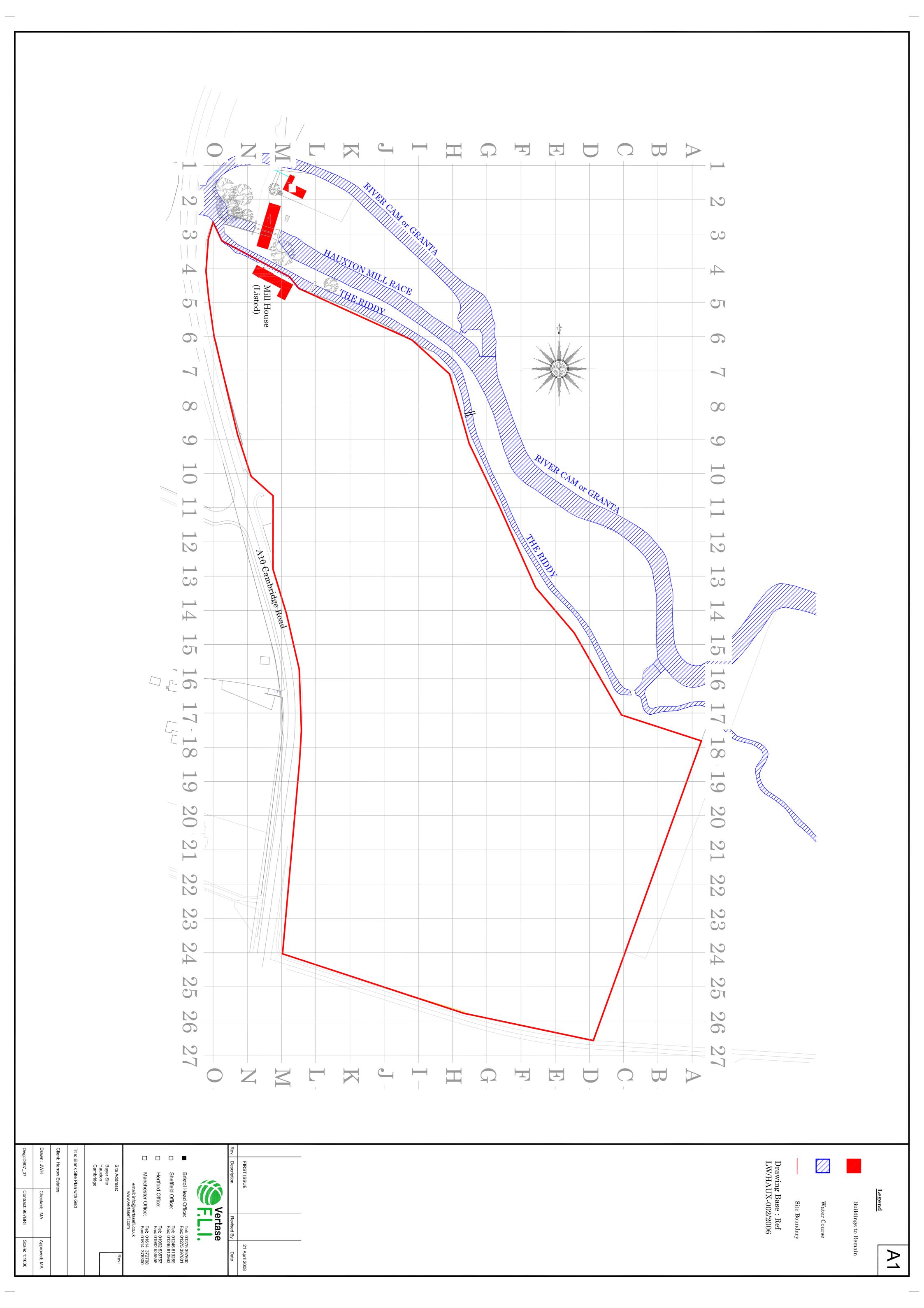
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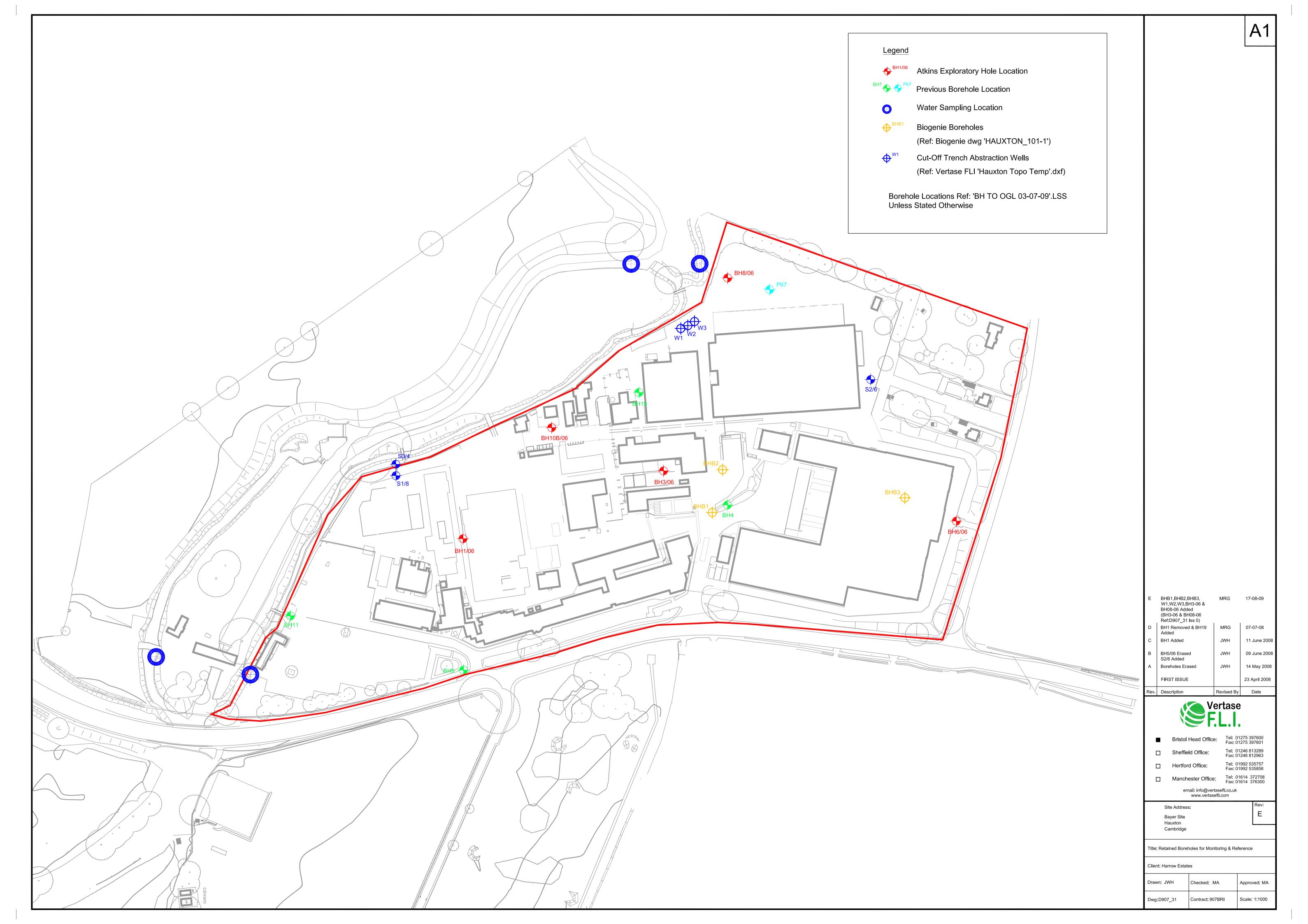
Covering Period: 2nd August 2010 to 29th August 2010

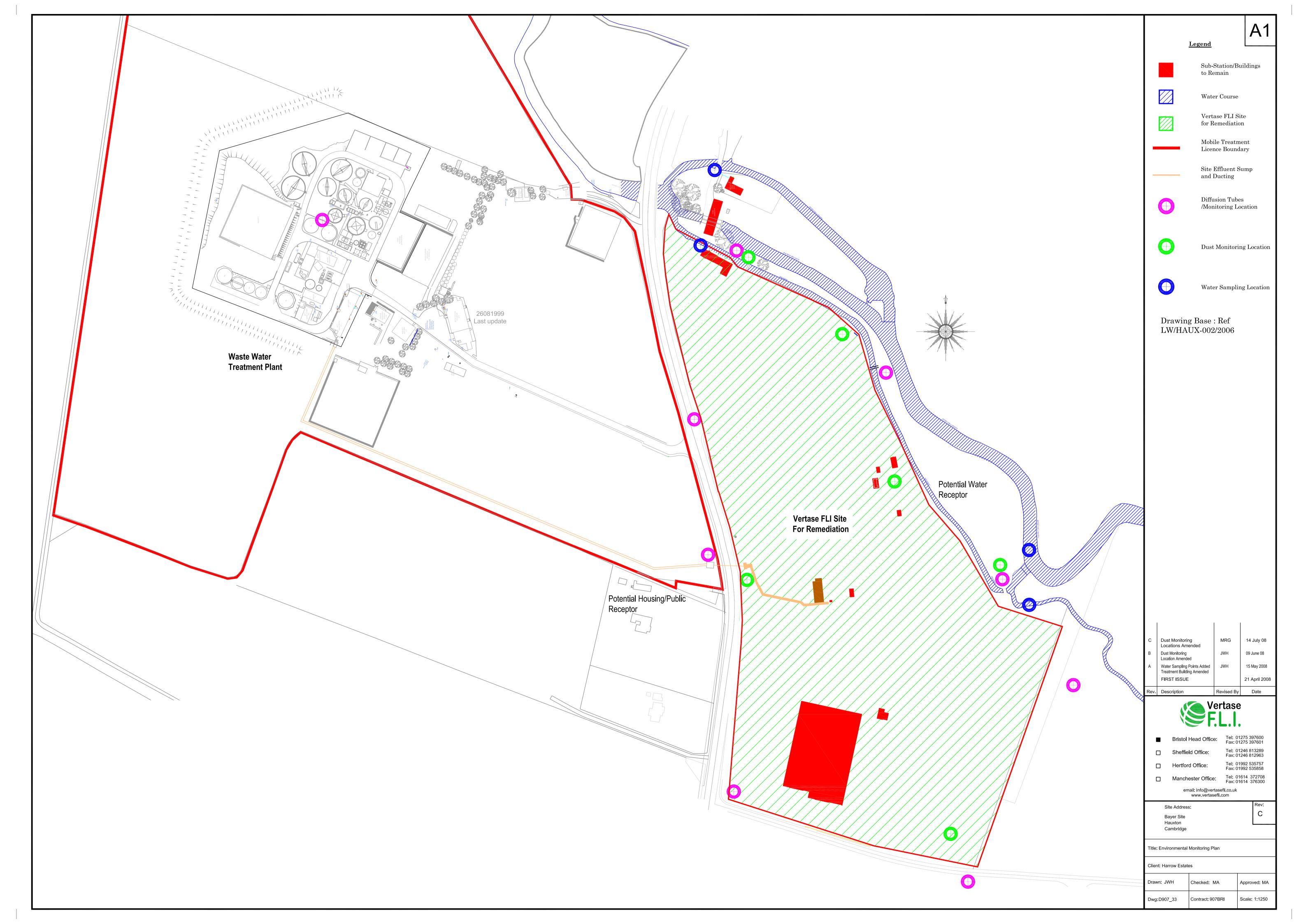


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Drawings









Appendix B

Environmental Monitoring Data

					ODOUR				DUST	NOISE	LIT	TER	F	RIDDY BROOK			MET	EOROLOGICA	L AND ENVIRONMEN	ITAL CO	NDITIONS	<u> </u>
Assessor Date	Daily Activity	Boundary	Start Finish Time Time	Detectability (Yes or No)	Intensity (1 to 9) Quality (Description)	Tone (245-22)	Location Odour Sensitivity Source	PID T:	SP PM10	Average (dBa)	Present (Description)	Materials attracting	Inspection	Water Level (mAOD)	Complaints	Action Required	Wind Speed	Wind Tem	Description (Rain, Sun)	Cloud	Ground Conditions (Wet. drv)	General Notes
T Walker 02/08/2010	breaking concrete/turning beds creaking concrete/turning beds	N NF	10.30 10.35 10.25 10.30	5n	1 no odour 1 no odour	0	(1105) (1105)	222.4	9.5 54	37.1	no no	no no	clear	9.219	no n	10	6.5	NW 17	dry/cloud	7	dry dry	Very slight site odour at west monitoring location.
T Walker 02/08/2010 T Walker 02/08/2010	breaking concrete/turning beds breaking concrete/turning beds breaking concrete/turning beds	NE1	10.25 10.30 10.20 10.25	0	1 no odour	0		212	54 47.2	50.1	00	00	clear	9.659	no n	10						
		SE S	10.15 10.20	0 n 5 n	1 no odour 1 no odour	0		230	38	63.5 57.6	no no	no no			no n	10						
T Walker 02/08/2010 T Walker 02/08/2010	breaking concrete/turning beds breaking concrete/turning beds	SW	10.10 10.15	5 n 5 n	1 no odour 1 no odour	0		161	38	64.2 70	10 10	no no			no n	10						
I Walker 02/08/2011 T Walker 02/08/2011 T Walker 02/08/2011 D Holman 02/08/2010 D Holman 02/08/2010 D Holman 02/08/2010 D Holman 02/08/2010	sealthing contractioning below uning beathering politication growth and in the contraction uning beathering beath reading contrate uning beathering beath reading beathering beathering beathering beath reading beathering beathering beathering beath reading beathering beath reading beathering beathering beathering beath reading beathering beat	NW N	10.00 10.05 10.05 10.10 17.22 17.27	0 n 7 y	1 no odour 1 no odour 1 no odour 4 vegetation	0	2 1 0	34.9	27.6	72.8 61	no no	no no	clear	9.219	no n	10	2	ESE 17	rain	8	wet	
D Holman 02/08/2010 D Holman 02/08/2010	turning beds/forming beds/breaking concrete turning beds/forming beds/breaking concrete	NE NE1	17.16 17.21 17.10 17.15 17.04 17.09	1 y	* Vegetarun	0	2 1 0	55.8 55.8	14.1	62	no	no	clear									
D Holman 02/08/2010 D Holman 02/08/2010	turning beas/forming beas/breaking concrete turning beds/forming beds/breaking concrete	SE	16.58 17.03	9y 3y	2 vegetation 3 vegetation 4 vegetation	0	2 1 0	35.3	17.8	63	no no	no no	clear	9.659								
D Holman 02/08/2010 D Holman 02/08/2010 D Holman 02/08/2010	turning beds/forming beds/freaking concrete	SW	16.52 16.57 16.46 16.51 16.40 16.45 17.28 17.33	1 y	2 vegetation and general site odour	0	4 2 0	245.5	107.5	73	no no	no no										
D Holman 02/08/2010 D Holman 03/08/2010	surning beds/forming beds/breaking concrete breaking concrete, turning beds, forming beds, moving beds	NW N		3 y 7 y	2 vegetation 2 general site odour and exhaust fumes 3 vegetation	0	2 3 0	36.1	27.8	80 57	no no	no	clear	9.209			1.7	NW 23	dry	5	damp	
D Holman 03/08/2010 D Holman 03/08/2010 D Holman 03/08/2010	breaking concrete, turning beds, forming beds, moving beds breaking concrete, turning beds, forming beds, moving beds breaking concrete, turning beds, forming beds, moving beds breaking concrete, turning beds, forming beds, moving beds	NE NE1	10.36 10.41 10.30 10.35	1 y 5	3 vegetation 3 vegetation and general site odour	0	2 3 0	168.2	138.8 69.8	58	20	no	clear									
D Holman 03/08/2010	breaking concrete, turning beds, forming beds, moving beds breaking concrete, turning beds, forming beds, moving beds	E SE	10.24 10.29	9y 3y	2 general site odour 4 general site odour	0 -1	2 5 0 2 5 0	95.5	41.7	61 59	no no	no no	clear	9.659								
D Holman 03/08/2010 D Holman 03/08/2010 D Holman 03/08/2010	breaking concrete, turning beds, forming beds, moving beds breaking concrete, turning beds, forming beds, moving beds breaking concrete, turning beds, forming beds, moving beds	SW	10.12 10.17 10.06 10.11 10.00 10.05	7 y 1 y	2 vegetation 3 vegetation 1 vegetation	0	2 1 C	36.9 93.6	14.1 52.9	63 75	no no	no no										
D Holman 03/08/2010	breaking concrete, turning beds, forming beds, moving beds breaking concrete, turning beds, forming beds, moving beds	NW	10.48 10.53	3y	1 vegetation 2 vegetation	0	2 1 0	1 1/3.6	52.9	78	no no	no no										odour present at kissing gate at church meadow near SE monitoring location 2/9 0.0ppm. TCE/PCE odour
D Holman 03/08/2010 D Holman 03/08/2010	breaking concrete, turning beds, forming beds, moving beds breaking concrete, turning beds, forming beds, moving beds	N NE	17.37 17.42	2y	2 vegetation 2 vegetation	1	2 1 0	41.3	25.9 138.2	63	no no	no no	clear	9.209								present around NE1 2/9 0.0ppm
D Holman 03/08/2010 D Holman 03/08/2010	breaking concrete, turning beds, forming beds, moving beds	NE1 E	17.31 17.36 17.25 17.30 17.19 17.24 17.13 17.18	0 4 y	2 general site odour	-1	2 5 0	98.3 111.6	87.6 89.3	59	no	no	clear	9.659								
D Holman 03/08/2010 D Holman 03/08/2010	breaking concrete, turning beds, forming beds, moving beds	SE		8 y 2 y	3 general site odour 1 vegetation	-1 1	2 5 0	27.3	21.4	54 65	10 10	no no										
D Holman 03/08/2010 D Holman 03/08/2010 D Holman 03/08/2010	breaking concrete, turning beds, forming beds, moving beds breaking concrete, turning beds, forming beds, moving beds breaking concrete, turning beds, forming beds, moving beds breaking concrete, turning beds, forming beds, moving beds	W	17.01 17.06 16.55 17.00 17.43 17.48	6 y 0 y	2 vegetation 2 vegetation	0	4 1 0	36.1	14.2	74 78	no no	no no										
	breaking concrete, turning beds, forming beds, moving beds breaking concrete, turning beds, forming beds, excavation breaking concrete, turning beds, forming beds, excavation	NW N		ey 2y	2 vegetation 2 vegetation 3 vegetation 2 vegetation 2 vegetation	1	2 1 0	27.8	13.3	58 50	no no	no no	clear	9.209			2	WNW 15	drizzle	8	damp	slight TCE odour present around NE1 2/9 0.0ppm
D Holman 04/08/2010 D Holman 04/08/2010 D Holman 04/08/2010 D Holman 04/08/2010	containing concrete, turning bads, forming bads, rowing orbus breaking concrete, turning bads, forming bads, rowing orbus breaking concrete, turning bads, forming bads, rowing bads, rowing bads, property concrete, turning bads, forming bads, rowing bads, rowing bads, property concrete, turning bads, forming bads, rowing bads, rowing bads, property concrete, turning bads, forming bads, rowing bads, ro	NE1 E	10.31 10.36 10.25 10.30 10.19 10.24 10.13 10.18	0 4 v	3 general site odour	0	2 5	103.4	98.6	62	no	no no	clear	9.659			Ħ			F		
D Holman 04/08/2010		SE S		8 y 2 y	3 general site odour 4 general site odour 2 vegetation	-1 1	2 5 0	31.6	19.3	53 64	no no	no no					H			F		
D Holman 04/08/2010 D Holman 04/08/2010	treaking concrete, turning beds, forming beds, excavation breaking concrete, turning beds, forming beds, excavation breaking concrete, turning beds, forming beds, excavation	SW	10.01 10.06 9.55 10.00 10.43 10.48	6y 0y	1 vegetation 2 vegetation 2 vegetation	0	4 1 C	41.1	36.2	76 79	no no	no no										
D Holman 04/08/2010		NW	10.43 10.48	8y		0	2 1 0		37.9	79	no	no		0.000		·		. T.				slight odour present at NE1 3/9 0.0ppm. Slight odour present from Cambridge farm machinery to site boundary
D Holman 04/08/2010 D Holman 04/08/2010 D Holman 04/08/2010	breaking concrete, turning beds, forming beds	N NE NE1	16.56 17.01	fly	4 vegetation 3 vegetation	0	2 1 C	206.2	126.4	58 68	no no	no no	clear	y.209			0.5	w 17	croudy	8	wet	along church road 2/9 0.0
D Holman 04/08/2010 D Holman 04/08/2010 D Holman 04/08/2010	breaking concrete, turning beds, forming beds breaking concrete, turning beds, forming beds breaking concrete, turning beds, forming beds	E SE	16.50 16.55 16.44 16.49 16.38 16.43 16.32 16.37	9y	3 vegetation 3 general site odour	0	2 1 0	275.2	180.5 220.9	66	00	no no	clear	9.659			H			F		
D Holman 04/08/2010	breaking concrete, turning beds, forming beds breaking concrete, turning beds, forming beds breaking concrete, turning beds, forming beds	S SW	16.32 16.37 16.26 16.31	7 y	1 general site odour 3 vegetation	0	2 5 0	59.1	10.1	65	00	no no										
D Holman 04/08/2010 D Holman 04/08/2010	breaking concrete, turning beds, forming beds breaking concrete, turning beds, forming beds	W	16.20 16.25 17.08 17.13	5 y 3 y	2 vegetation 4 vegetation	0	4 1 0	65.2	29.5	79 78	no no	no no										
D Holman 05/08/2010		N	10.46 10.51	1 y	2 vegetation	0	2 1 (39.6	18.1	63	no	no	clear	9.209								toe odour present around south gate 3/9 0.0ppm. General site and exhaust odour present around NE1 2/9 0.0ppm
D Holman 05/08/2010 D Holman 05/08/2010 D Holman 05/08/2010 D Holman 05/08/2010	Excavaling J12 and J13, turning treatment beds	NE NE1	10.40 10.45 10.33 10.38 10.27 10.32	5 y 8	2 vegetation	1	2 1 0	61.6 268.9	38.6 107.9	66	no	no	clear	9 649								
D Holman 05/08/2010	excavaning 312 and 313, turning treatment beds Excavating 312 and 313, turning treatment beds Excavating 312 and 313, turning treatment beds	SE	10.21 10.26	2 y 6 y	3 toelpce and general site odour 3 general site odour 1 general site odour	0	2 5 0	186		59	no no	no no	clear	9.649								
D Holman 05/08/2010 D Holman 05/08/2010 D Holman 05/08/2010 D Holman 05/08/2010	Excavating 312 and 313, turning treatment beds	SW	10.13 10.18 10.06 10.11 10.00 10.05 10.53 10.58	1y	2 vegetation 2 vegetation 2 vegetation	0	4 1 0	49.1	22.3	73 75	00	no no										
D Holman 05/08/2010 D Holman 05/08/2010	Excavating J12 and J13, turning treatment beds Excavating J12 and J13, turning treatment beds			8 y 7 y	2 vegetation 2 vegetation	1	2 1 0	23.6	15	79 49	no no	no no	dear	9.209			5	WNW 24	sun	3	damp	slight odour present at Hauxton church 3/9 0.0ppm
D Holman 05/08/2010 D Holman 05/08/2010 D Holman 05/08/2010 D Holman 05/08/2010	Excavating J12 and J13, turning treatment beds	NE NE1	17.36 17.41 17.36 17.41 17.30 17.35 17.24 17.29 17.18 17.23 17.12 17.17	1 y	1 vegetation	0	2 1 0	205.6 67.7	73.4 20.5	56	no	no	clear									
D Holman 05/08/2010 D Holman 05/08/2010 D Holman 05/08/2010		E SE	17.24 17.29 17.18 17.23	9y 3y	3 general site odour 4 toe/pce	4	2 5 C	49.5 18.3	18.9	68	10	no no	clear	9.649								
D Holman 05/08/2010	Excavating J12 and J13, turning treatment beds Excavating J12 and J13, turning treatment beds	SW	17.12 17.17 17.06 17.11	7 y 1 y	2 tce/pce 1 vegetation	0	4 1 0		13.8	63 73	no no	no										
D Holman 05/08/2010 D Holman 05/08/2010 T Walker 06/08/2010	Excavation .112 and .113, turning treatment heris	NW	17.00 17.05 17.48 17.53 11.05 11.10	3y	2 vegetation 2 vegetation 1 no odour	0	2 1 0	95.1	19.6	78 67	no no	no no	clear	0.240		20	11.4	SF 22.4	run		dny	
T Walker 06/08/2010 T Walker 06/08/2010	excavating J11forming beds excavating J11forming beds excavating J11forming beds	ME	11 10 11 15	5 n	1 no odour	0	3 5 0	137	28 19	48	no	no	clear	0.110	no n	10	-	JL 12-7	Juli	_	usy .	
T Walker 06/08/2010	excavating 31 Horning basis excavating 31 Horning beds	E SE	11.10 11.15 11.15 11.20 10.40 10.45	0 n 5 n	1 no odour 1 no odour	0	3 5 C	118	42	37 36	no no	no no	clear	9.659	no n	10						
T Walker 06/08/2010 T Walker 06/08/2010 T Walker 06/08/2010	excavating J11/forming bods excavating J11/forming bods	SW	10.45 10.50	0 n 5 n	1 no odour 1 no odour	0	5 5 C	127	31	65	no no	no no			no n	10						
T Walker 06/08/2010 T Walker 06/08/2010	excavating J11/forming beds excavating J11/forming beds	NW	10.55 11.00 11.00 11.05	0 y 5 y	2 compost/ice 2 compost	·1	5 5 C	131	47	78	no no	no no			no n	10						Odour in mill house car park of aerosol paint rated 2/3 pld readings only in gusts of 3.5 on A10, excavation
T Walker 06/08/2010 T Walker 06/08/2010	excavating J11/turning beds excavating J11/turning beds	N NE	15.56 16.00 15.50 15.55	0n Sv	1 no odour 2 odour control	0	3 5 0	196	58 36	26	no no	no	clear	9.219	no n	10	9.4	SE 19	showers	8	damp	ceased immediately.
T Walker 06/08/2010 T Walker 06/08/2010	excavating J11/turning bads excavating J11/turning bads excavating J11/turning bads excavating J11/turning bads	NE1 E	15.50 15.55 15.45 15.50	5 0 n	1 no odour 2 diesel fumes from farm machinery place	0		201	49 44	27	no	no	clear	9.659	no n	10						
T Walker 06/08/2016	excavating J11/turning beds excavating J11/turning beds	SE S	15.50 15.55 15.50 15.55 15.45 15.50 15.40 15.45 15.40 15.45	5 y 0 n	1 no odour	-1 0	5 1 0	179	28	72 64	no no	no no			no n	10	Е					
1 Walker 06/08/2010 T Walker 06/08/2010	excavating J11/turning beds excavating J11/turning beds excavating J11/turning beds	SW W	15.35 15.40 15.30 15.35 16.00 16.05	on Sn	1 no odour 1 no odour 2/3 painthce	0		137	38	48 48	no no	no no			no n	10	H					
T Walker 09/08/2010	Excavating 11 Impulses had 68	N I	16.00 16.05 12.40 12.45 12.30 12.35	5n	2/3 paintice 1 no odour 1 no odour	-4	, b	154	17	27.4	no no	no no	clear	9.219	no n	10		SW 22	dry/sun	+	dry	PID readings on the access road to the site reading at 4 ppm all points monitoring 0.0ppm
T Walker 09/08/2010 T Walker 09/08/2010 T Walker 09/08/2010	Excavaling 111/moving bed 68 Excavaling 111/moving bed 68 Excavaling 111/moving bed 68 Excavaling 111/moving bed 68	NE1 E	12.30 12.35	5 0 n	1 no odour			157	64 9	76.4	no	no	clear	9.659	no n	10	H			F		
		SE S	12.25 12.30 12.20 12.25 12.15 12.20	5n On	1 no odour 1 no odour			89	17	68.1 57.4	no no	no no			no n	10						
T Walker 09/08/2010 T Walker 09/08/2010	Excavating I11/moving bed 68 Excavating I11/moving bed 68	SW	12.10 12.15 12.05 12.10	5in Oly	1 no odour 3/4 toe/pce	-2	2 5 0).3 157	19	37.1 44.8	no no	no no			no n	10	H					
T Walker 09/08/2010 D Holman 09/08/2010 D Holman 09/08/2010	Excavating I11/moving bed 68 breaking concrete, turning beds, screening concrete breaking concrete, turning beds, forming beds, screening concrete breaking concrete, turning beds, forming beds, screening concrete	NW N	12.00 12.05 17.02 17.07 16.56 17.01	7 y	1 no odour 4 burning/smoke	4	2 1 0	109.8	22.1	64 65	no no	no no	clear	9.219	no n	10	7	SSW 28	sun	0	dry	no odour at Hauxdon church
D Holman 09/08/2010	breaking concrete, turning beds, forming beds, screening concrete	NE1 F	16.50 16.55	5	3 toe/pce and general site odour 3 general site odour	.1		267.3 267.3	190.8	63	00	.00	clear clear	9.659			H			F		
D Holman 09/08/2010 D Holman 09/08/2010 D Holman 09/08/2010	breaking concrete, turning beds, forming beds, screening concrete breaking concrete, turning beds, forming beds, screening concrete breaking concrete, turning beds, forming beds, screening concrete	SE S	16.44 16.49 16.38 16.43 16.32 16.37 16.26 16.31	3 y 7 y	2 vegetation 3 vegetation	0	2 1 0	293.4	22.4	58 63	no no	no	clear				H			F		
D Holman 09/08/2010 D Holman 09/08/2010 D Holman 09/08/2010	breaking concrete, turning beds, forming beds, screening concrete breaking concrete, turning beds, forming beds, screening concrete	SW	16.26 16.31 16.20 16.25	1 y 5 y	2 vegetation 3 vegetation	0	4 1 C	53.5	45.2	75 79	no no	no no				-						
D Holman 09/08/2010 D Holman 09/08/2010 D Holman 10/08/2010 D Holman 10/08/2010	breaking concrete, turning beds, forming beds, screening concrete breaking concrete, turning beds, forming beds, screening concrete breaking concrete, turning beds, forming beds, screening concrete	NW N	16.20 16.25 17.08 17.13 10.32 10.37 10.26 10.31	7 y	2 general site odour 2 vegetation 3 general site odour	0	2 1 C	57.8	10.4	78 56	no no	no no	clear	9.209		·	2	SSW 15	rainy spells	8	wet	
D Holman 10/08/2010 D Holman 10/08/2010	creaking concrete, uming beds, forming beds, screening concrete breaking concrete, turning beds, forming beds, screening concrete breaking concrete turning beds, forming beds, screening concrete	NE1 F	10.20 10.25	5		1	2 E	36.6 114 29.5	31.7 54.5	61	00	m0	clear clear	9.649			H					
D Holman 10/08/2010 D Holman 10/08/2010 D Holman 10/08/2010 D Holman 10/08/2010 D Holman 10/08/2010	preaking concrete, turning beds, forming beds, screening concrete breaking concrete, turning beds, forming beds, screening concrete breaking concrete, turning beds, forming beds, screening concrete breaking concrete, turning beds, forming beds, screening concrete	SE S	10.20 10.25 10.14 10.19 10.08 10.13 10.02 10.07 9.56 10.01	3 y 7 y	3 PCE/TCE 2 general site odour 1 vegetation	0	2 5 0	62.9	7.7	54 66	no no	no no					H			F		
D Holman 10/08/2010 D Holman 10/08/2010	breaking concrete, turning beds, forming beds, screening concrete breaking concrete, turning beds, forming beds, screening concrete breaking concrete, turning beds, forming beds, screening concrete	SW	9.56 10.01 9.50 9.55	1 n	1 vegetation	0	4 1	75.3	63.7	77	no no	no no					H		1			
D Holman 10/08/2010 D Holman 10/08/2010	breaking concrete, turning beds, forming beds, screening concrete breaking concrete, turning beds, forming beds, screening concrete	N	10.38 10.43	3 y 7 y	3 vegetation and exhaust fumes 1 vegetation	-1 0	2 1 0 2 1 0	41.3	38.9	79 57	no no	no no	clear	9.209			2	SW 16	rain	8	wet	
D Holman 10/08/2010 D Holman 10/08/2010	breaking concrete, turning beds, forming beds, screening concrete	NE NE1	16.56 17.01 16.50 16.55	1 y	4 general site odour	-1	2 5	122.3 67.8	56.3 31.9	58	no	no	clear				曰			E		
D Holman 10/08/2010 D Holman 10/08/2010	breaking concrete, turning bads, forming bads, screening concrete breaking concrete, turning bads, forming bads, screening concrete breaking concrete, turning bads, forming bads, screening concrete	SE SE	16.44 16.49 16.38 16.43	9y 3y	3 general site odour 3 general site odour	0	2 5 0	83.2	57.9	59 64	no no	no	clear	9.649			H					
D Holman 10/08/2010	breaking concrete, turning beds, forming beds, screening concrete	SW W	16.32 16.37 16.26 16.31 16.20 16.25	/y 1y	2 vegetation 1 vegetation	0	2 1 0	58.4	1.7	65 75	no no	no no					H					
D Holman 10/08/2010 D Holman 10/08/2010 D Holman 11/08/2010	breaking concrete, turning beds, forming beds, screening concrete breaking concrete, turning beds, forming beds, screening concrete breaking concrete, forming beds, turning beds, screening concrete	NW N	16.20 16.25 17.08 17.13 10.12 10.17	3y 7v	1 vegetation 3 vegetation 2 vegetation	0		157.3	92	78 79 62	00	no no	clear	9 209			15	WSW 19	SUD	L	damp	slight odour present at NE1 2/9 0.0ppm general site odour
D Holman 11/08/2010	breaking concrete, forming beds, turning beds, screening concrete	NE NE1	10.06 10.11	1 y	2 general site odour	ő	2 5 0	19.8	15.3	63	no	no	clear		H		7.0		post!	F	James /	режения решения во 1964 г. Али отпрукт урежения аме чосов!
D Holman 11/08/2010 D Holman 11/08/2010	breaking concrete, forming beds, turning beds, screening concrete breaking concrete, forming beds, turning beds, screening concrete breaking concrete, forming beds, turning beds, screening concrete	E SE	9.54 9.59 9.48 9.53	9 y 3 y	3 general site odour 3 general site odour and concrete dust	-1 0	2 5 C	246.7	137.2	59 61	no no	no no	clear	9.639			E					

D Holman D Holman	11/08/2010 11/08/2010 11/08/2010	breaking concrete, forming beds, turning beds, screening concrete breaking concrete, forming beds, turning beds, screening concrete	S 9.42 SW 9.36 W 9.30	9.47 y 9.41 y	2	vegetation 0 vegetation 0 vegetation 0) 2) 4	1	0 245.5 0 112.3	35.9	64 no 74 no	no no									
D Holman D Holman	11/08/2010	breaking concrete, forming beds, turning beds, screening concrete breaking concrete, forming beds, turning beds, screening concrete	NW 10.18	10.23y	2	vegetation 0 exhaust fumes and vegetation 0) 4	1	0 112.3	42.4	79 no 79 no	no no									
D Holman	11/08/2010	breaking concrete, screening concrete, turning beds, forming beds breaking concrete, screening concrete, turning beds, forming beds	N 16.02 NE 15.56 NE1 15.50	16.07y	1	vegetation 0	2	1	0 14.1	5.9	55 no	no	clear 9.209		2	wsw	22 dr	y	6	dry	no odour at Hauxton parish church, odour control and mushroom compost odour present between NE1 and E monitoring locations.
D Holman D Holman D Holman	11/08/2010 11/08/2010	breaking concrete, screening concrete, turning beds, forming beds	NE 15.56 NE1 15.50	16.01 y 15.55	3	odour control 1	1 2	5	0 215.5 213.4	33.2 187.9	64 no	no	clear								
D Holman D Holman	11/08/2010	breaking concrete, screening concrete, turning beds, forming beds breaking concrete, screening concrete, turning beds, forming beds breaking concrete, screening concrete, turning beds, forming beds	E 15.44 SE 15.38	15.49ly 15.43ly	3	mushroom compost & odour control concrete dust	1 2	5	0 225.7	24.3	61 no	no no	clear 9.639								
D Holman D Holman	11/08/2010	breaking concrete, screening concrete, turning beds, forming beds breaking concrete, screening concrete, turning beds, forming beds	S 15.32 SW 15.26	15.37 y 15.31 y	3	vegetation 0 vegetation 0	2	1	0 16.1	9.8	65 no 75 no	no no									
D Holman D Holman	11/08/2010	breaking concrete, screening concrete, turning beds, forming beds breaking concrete, screening concrete, turning beds, forming beds	SW 15.26 W 15.20 NW 16.08		3	vegetation 0 vegetation 0	2	1	0 255.3	39.1	78 no 79 no	no no					+		-		
D Holman D Holman	12/08/2010	breaking concrete, turning beds, forming beds	N 9.42 NE 9.36	9.41 y	4	vegetation 0 odour control 1	2	5	0 111.6 0 166	24.9 96	64 no 68 no	no no	clear 9.219 clear		1.6	WSW	15 cl	oudy	8	damp	
D Holman D Holman D Holman	12/08/2010	breaking concrete, turning beds, forming beds breaking concrete, turning beds, forming beds	NE1 9.30 E 9.24	9.35 9.29 v	3	general site odour) 2	5	142.4 0 88.4 0	126.4	61 no	no	clear clear 9.639								
D Holman D Holman D Holman	12/08/2010	breaking concrete, turning beds, forming beds breaking concrete, turning beds, forming beds	E 9.24 SE 9.18 S 9.12		2	perintm are od vegetation 0 ovegetation 0 vegetation 0 vegetation 0 vegetation 0	2	3	0 22.3	17.2	65 no 64 no	no no									
D Holman D Holman	12/08/2010	breaking concrete, turning beds, forming beds	SW 9.06 W 9.00	9.11 y 9.05 y	2	vegetation 0 vegetation 0) 4) 4	1	0 0 65.8	40.7	75 no 76 no	no no									
D Holman D Holman	12/08/2010	breaking concrete, turning beds, forming beds breaking concrete, turning beds, forming beds	NW 9.48 N 17.22	9.53 y 17.27 y	1	vegetation 0 vegetation 0 top type 0	2	5	0 28.4	21.7	79 no 55 no	no no	clear 9.219		3	w	18 cl	oudy	8	damp	
D Holman D Holman	12/08/2010	breaking concrete, turning beds, forming beds breaking concrete, turning beds, forming beds	NE 17.16 NE1 17.10	17.21 y 17.15	3	odour control and vegetation	2	3	0 74.2 20.8	67.3 20.2	55 no	no	clear								
D Holman D Holman	12/08/2010	breaking controls, turning beefs, towned beefs breaking controls, turning beefs, forming beefs	S 9.12 SW 9.06 W 9.00 NW 9.48 N 17.22 NE 17.16 NE1 17.10 E 17.04 SE 16.52 SW 16.62	17.09ly 17.03ly	3	odour control 1 concrete dust, odour control and vegetation 0	2	5	0 24	19.3	59 no 58 no	no no	clear 9.639								
		breaking concrete, turning beds, forming beds breaking concrete, turning beds, forming beds			1) 2) 4	1	0 47.9 0	26.2	65 no 74 no	no no									
D Holman D Holman	12/08/2010	breaking concrete, turning beds, forming beds breaking concrete, turning beds, forming beds breaking concrete, turning beds, forming beds	W 16.40 NW 17.28	16.45y 17.33y	2	vegetation 0 vegetation 0 odour control 1	1 2	5	0 97.7	4	78 no 79 no	no no									
	13/08/2010	breaking concrete, turning beds, forming beds	N 10.02	10.07%	2	vegetation 0 DNOC and general site odour	2	1	0 30.2	22	63 no	no	clear 9.219		3	w	16 cl	oudy	8	dry	slight odour at Hauxdon parish church 1/9 0.0ppm odour present along east boundary's of NE1 0.0ppm 5/9 bed jurning halted
D Holman D Holman	13/08/2010 13/08/2010	breaking concrete, turning beds, forming beds breaking concrete, turning beds, forming beds	NE 9.56 NE1 9.50	9.55	2		1 2	5	0 45.6 251.1	38.9 60	64 no	no	clear								
D Holman D Holman	13/08/2010	breaking concrete, turning beds, forming beds	E 9.44 SE 9.38	9.49 y 9.43 y	3	odour control 1 general site odour 0	2	5	0 179.4 0	37.6	61 no 60 no	no no	clear 9.639								
D Holman D Holman	13/08/2010	breaking concrete, turning beds, forming beds breaking concrete, turning beds, forming beds	S 9.32 SW 9.26	9.31 y	3	vegetation and general site odour 0 vegetation 0) 2) 4	1	0 90.6 0	28.3	65 no 73 no	no no									
D Holman D Holman	13/08/2010 13/08/2010	breaking concrete, turning beds, forming beds breaking concrete, turning beds, forming beds breaking concrete, turning beds, forming beds breaking concrete, turning beds, forming beds	W 9.20 NW 10.08	9.25 y 10.13 y	3	vegetation and odour control 0 exhaust furnes and vegetation 0	J 4	1	0 15.9	14.6	/9 no 78 no	no no									
D Holman D Holman D Holman D Holman D Holman	13/08/2010 13/08/2010		N 17.12 NE 17.06	17.17 y 17.11 y	3	vegetation 0 general site odour	1 2	5	U 36.1 0 119.3	22.8 68.7	63 no	no no	clear 9.219 clear		1	NW	16 cl	oudy	8	damp	
		breaking concrete, turning beds, forming beds breaking concrete, turning beds, forming beds	NW 10.08 N 17.12 NE 17.06 NE1 17.00 E 16.54	17.05 16.59 y	4	odour control 1	2	5	199.1 0 63.1	85.3 37.9	60 no	no	clear clear 9.639								
D Holman D Holman	13/08/2010	breaking concrete, turning beds, forming beds breaking concrete, turning beds, forming beds breaking concrete, turning beds, forming beds breaking concrete, turning beds, forming beds	SE 16.48 S 16.42 SW 16.36 W 16.30	16.53 y 16.47 y	2	general site odour 0 general site odour 0	2	5	0 10.1	6.3	65 no	no no					H				
D Holman	13/08/2010	presenting concrete, turning beds, forming beds breaking concrete, turning beds, forming beds	OVV 16.36 W 16.30	16.35 y	2	general site odour 0 vegetation 0 vegetation 0	4	1	0 9.7	8.1	79 no	no no									
I Stephenson	15/08/2010 16/08/2010	breaking concrete, turning bacs, forming bads Breaking out concrete, turning treatment beds	NW 17.18 N 10.04 NE 9.58	17.23y 10.09th	2	vegetation 0	2	,	0 113.4	54.6	60.8 no	no no	clear 9.209	no no	10	NNW	16 cl	oudy	8	damp	slight odour behind fire exit, slight odour at church (1/9)
l Stephenson	16/08/2010	Breaking out concrete, turning treatment beds Breaking out concrete, turning treatment beds	NE 9.58 NE1 9.51	9.56					49.9	36.8	68.3 No	no	clear	no no							
l Stephenson	16/08/2010	Breaking out concrete, turning treatment beds Breaking out concrete, turning treatment beds	SE 9.38	9.50y 9.43y	3	natural vegetation 0 site odour 0	2	4	0 25.1	26.6	69.4 no	no no	Glear 9.639	no no							
I Stephenson	16/08/2010	breaking concrete, turning bods, forming bods filterating concrete, turning bods, forming bods filterating concrete, turning bods, forming bods filterating concrete, turning breaking bods	NE1 9.56 NE1 9.51 E 9.45 SE 9.38 S 9.30 SW 9.24	9.35y 9.29h		site odour, vegetation 0 farmers field, odour control 0	,	3	0 41.6	16.8	64.6 no	no no		no no							
I Stephenson	16/08/2010	Breaking out concrete, turning treatment beds Breaking out concrete, turning treatment beds Breaking out concrete, turning treatment beds	W 9.17 NW 10.12 N 17.12			vegetation 0	,		0 393 0 25.6	17.9	/1.4 no	no	clear 9.209	no no			28 st				
D Holman	16/08/2010	Breaking out concrete turning treatment herfs	NE 17.06 NE1 17.00	17.11 y	2	vegetation 0	2	i	0 221.5	53 160.6	51 no	no	clear clear			revv	20 80	л	3	diy	
D Holman D Holman D Holman D Holman	16/08/2010	Breaking out concrete, turning treatment bads	E 16.54 SE 16.48 S 16.42	16.59ly	2	odour control and vegetation 0 mushroom compost & odour control 0	2	3	0 8.3	2.9	58 no	no	clear 9.639								
D Holman	16/08/2010		S 16.42	16.47 y	3	vegetatori	2	1	0 13.6	5.1	63 no	no no									
D Holman	16/08/2010	Breaking out concrete, turning treatment beds Breaking out concrete, turning treatment beds Breaking out concrete, turning treatment beds	SW 16.36 W 16.30	16.35 y	2	vegetation 0 vegetation 0 exhaust fumes	1 2	1	0 39.9	10.3	78 no	no no									
T Walker	17/08/2010	Breaking out concrete, turning treatment beds excavating, breaking concrete, turning beds excavating, breaking concrete, turning beds	NW 17.18 N 9.00 NE 8.55	9.0000	1	no odour 0			0 191	44 67	37.1 no	no no	clear 9.209 clear	no no	4.1	SW	16 dr	y	8	dry	slight smell at entrance gate
T Walker T Walker T Walker T Walker	17/08/2010	excavating, breaking concrete, turning beds	NE1 8.55 E 8.50 SE 8.45	9.00 8.55 n)		161 0 158	48 19	81.1 no	no	clear clear 9.649	no no no no							
T Walker T Walker	17/08/2010	excavating, breaking concrete, turning beds excavating, breaking concrete, turning beds			1	no odour 0 no odour 0 no odour 0)		0 201	27	76.4 no 61.1 no	no no		no no							
T Walker T Walker T Walker	17/08/2010	excavating, treating concrete, turning beds excavating, breaking concrete, turning beds excavating, breaking concrete, turning beds excavating, breaking concrete, turning beds	SW 8.35 W 8.30 NW 9.05	8.40m 8.35w	1	toplodour ontrol TCE/hydrocarbons	1 5	1	0 176	34	76.9 no 57.4 no	no no		no no							
			NW 9.05	9.10y	2		1 4	1	0		48.9 no	no		no no							no odour at church or organic machinery shop. Odour along eastern boundary, mild contamination and odour
l Stephenson l Stephenson	17/08/2010	moving treatment beds moving treatment beds	N 11.45 NE 11.50	11.50y 11.55y	4	blocked drains slight solvents, vegetation 1	2 2	3	0 171	57.1 52.8	63.1 no 60.4 no	no no	clear 9.209 clear	no no no no	3.8	SW	16.9 cl	oudy/rain	8	damp	control
1 Stephenson 1 Stephenson	17/08/2010 17/08/2010	moving treatment beds moving treatment beds moving treatment beds moving treatment beds	NE 11.50 NE1 11.55 E 12.00	12.00 12.05 n			2		130 0 25.6	59 28.9	66.3 no	no	clear clear 9.649	no no							
			SE 12.05 S 12.10 SW 11.30 W 11.35	12.10ly 12.15in	3	vehicle fumes, slight contam 0	2	3	0 140	15.1	76.4 no 66.5 no	no no		no no							
Stephenson Stephenson Stephenson	17/08/2010 17/08/2010	moving treatment bads moving treatment bads moving treatment bads moving treatment bads	SW 11.30 W 11.35	11.35n 11.40n			4		0 219	52	71.2 no 65.4 no	no no		no no							
			NW 11.40 N 17.32	11.45n 17.37y	2	vegetation 0	2	1	0 19.5	11.7	73.7 no 55 no	no no	clear 9.209	no no	3	wsw	26 st	ın	3	dry	
D Holman D Holman	17/08/2010 17/08/2010	moving treatment beds moving treatment beds moving treatment beds	N 17.32 NE 17.26 NE1 17.20 E 17.14	17.31 y 17.25		odour control 1	2	5	286.3	28.3 30	57 no	no	clear								
D Holman	17/08/2010	moving treatment beds moving treatment heds	SE 17.08	17.13ly	3	exhaust fumes, organic compost, odour control organic compost, odour control 0	1 2	5	0 14.1	8.2	68 no 65 no	no no	clear 9.649								
D Holman D Holman D Holman	17/08/2010 17/08/2010	moving treatment beds moving treatment beds moving treatment beds	S 17.02 SW 16.56 W 16.50	17.01 y	1	vegetation 0 vegetation 0 vegetation 1) 2) 4	1	0 65.8	1.4	64 no 72 no	no no					H				
D Holman	17/08/2010	moving treatment beds moving treatment beds Turnies helds moving material	W 16.50 NW 17.38 N 10.16 NE 10.10 NE 10.10 E 9.58 SE 9.52 S 9.46 SW 9.30 W 9.30 NW 10.22	16.56 y 17.43 y	1	vegetation 1	1 2	1	0 109.5 0 178.5	108.3	79 no	no no	400				19 (1				
D Holman	18/08/2010	Turning beds, moving material	NE 10.10	10.15 y	Ė	odour control 0	2	5	0 178.5 0 234.4	89.6	63 no	no no	olear		ď	VV .	19 6	owly .	_	wy	
D Holman	18/08/2010 18/08/2010	Turning beds, moving material Turning beds, moving material Turning beds, moving material	E 9.58	10.03 y	2	odour control, PCE/TCE 0 organic compost -	2	5	0 94.1 0	48.8	65 no	no co	clear 9.639				Ħ				
D Holman D Holman	18/08/2010	Turning beds, moving material Turning beds, moving material	S 9.46 SW 9.26	9.51 y 9.41 y	2	vegetation 0	2	1	0 60.6	16.4	63 no	no no				1	Ħ		1		
D Holman D Holman	18/08/2010	Turning beds, moving material	W 9.30 NW 10.22	9.35 y 10.27 y	3	vegetation 0 vegetation 0 vegetation 0 vegetation 0	4		0 68.6	30.3	78 no	no no					H		H		
Stephenson Stephenson Stephenson	18/08/2010	Turning hade, mouting material	NF 47.00	47.44	2	vegetation 0 odour control 1	2	5	0 61.4 0 210.5	10.8 94.2	55 no	no no	clear 9.199 clear		3	wsw	21 cl	oudy	6	dry	
I Stephenson	18/08/2010	Turning beds, moving material Turning beds, moving material	NE1 17.06 NE1 17.00 E 16.54 SE 16.48 S 16.42 SW 16.36	17.05 16.59 y	3		2	5	153.4	87.3 14.4	64 no	no	clear clear 9.639				Ħ				
l Stephenson	18/08/2010	Turning beds, moving material Turning beds, moving material Turning beds, moving material	SE 16.48 S 16.42	16.53 y 16.47 y	4 3	organic compost and odour control 0 organic compost and odour control - vegetation 0	1 2	5	0 40.2 0 34.2	26.4	65 no 64 no	no no					Ħ				
I Stephenson I Stephenson	18/08/2010	Turning beds, moving material Turning beds, moving material			3	vegetation 0 vegetation and exhaust fumes 0) 4) 4	1	0 26.9	12.9	76 no 80 no	no no					H				
I Stephenson B Ashley	18/08/2010	Turning beds, moving material Turning beds, moving material	NW 17.18	17.23 y	_	vegetation 0	2 2	1	0 31.1	151.3	79 no 53 no	no no	9.199		0.7	SW	21.8 st	ın	3	dry	no odour at parish church on church road, Hauxton
		Turning hade, moving material	N 10.40 NE 10.30 NE1 10.25	10.30			2		0 82.7 17.8	39 68.1	54 no	no	clear			E			E	E	
B Ashley B Ashley B Ashley		Turning beds, moving material Turning beds, moving material Turning beds, moving material Turning beds, moving material	E 10.20	10.25 y	3	chemical d odour suppressant 2	2 2	5	0 103	113.3	66 no 71 no	no no	9.649			E			E	E	
B Ashley B Ashley B Ashley B Ashley B Ashley D Holman D Holman D Holman	19/08/2010 19/08/2010	Turning beds, moving material Turning beds, moving material Turning beds, moving material	SE 10.15 S 10.10 SW 10.00	10.15 y 10.05 n	2	grass 2	2 2	1	0 79.3 0	46.9	66 no 74 no	no no				E			E		
B Ashley B Ashley	19/08/2010 19/08/2010		W 9.50 NW 10.50 N 17.22 NE 17.16 NE1 17.10	9.55 y 10.55 y	1	odour suppressant 2 traffic fumes 4	2 4 2	5	0 0.56	66.5	75 yes 78 no	no no					ø		E		Litter along the western boundary was collected and disposed of on site.
D Holman D Holman	19/08/2010 19/08/2010	Turning treatment beds Turning treatment beds Turning treatment beds	N 17.22 NE 17.16	17.27 y 17.21 y	3	odour control 1 odour control 1	2	5	0 17.6 0 224.1	5.8 121.5	58 no 62 no	no no	clear 9.199 clear		3	SSE	24 SL	unny	2	dry	
		Turning treatment beds			4	toe/pce, exhaust fumes, odour control	1 2	5	87.6 0 97.4	73.5 44.9	68 no	no	clear clear 9.649				Ħ		E		
D Holman D Holman	19/08/2010 19/08/2010	Turning treatment beds Turning treatment beds Turning treatment beds Turning treatment beds	SE 16.58 S 16.52	17.03 y 16.57 y	4	organic compost 0 smoke vegetation 0 smoke	2	5	0 29.1	13.2	64 no 65 no	no no					Ħ		E		
D Holman D Holman D Holman D Holman	19/08/2010 19/08/2010	Turning treatment beds	SW 16.46 W 16.40	16.51 y 16.45 y	2	vegetation 0	1 4	1	0 0 31.9	5.1	74 no 79 no	no no					H				
		Breaking out concrete, turning treatment beds	SE 16.58 S 16.52 SW 16.46 W 16.40 NW 17.28 N 10.12	17.31 y 10.17 y	1	vegetation 0 vegetation 0	2	1	0 124	72.3	78 no 62 no	no no	clear 9.189		4.5	SSE	21.5 cl	oudy	8	dry	
D Holman	20/08/2010	Breaking out concrete, turning treatment beds Breaking out concrete, turning treatment beds	NE1 10.00	10.05	3	odour control 1	2			33.8 46.5	65 no	no	clear				H				
D Holman	20/08/2010	Breaking out concrete, turning treatment beds Breaking out concrete, turning treatment beds	E 9.54 SE 9.48 S 9.42	9.53v	2	compost organic and odour control 0 compost and organic 4 vegetation 0	1 2	5	0 72.9	8.8	64 no	no no	dear 9.649								
D Homan	zur08/2010	Breaking out concrete, turning treatment beds	0 9.42	2.4(1)	la .	(Vegetation 0	, к	I)	u 58	psp.1	od no	Ino							-		ļ

D Holman 20/08/2010 Breaking out concrete, turning treatment beds	- Cur	936 94	et. In	T	la 14	. 1.	10 1			70 6.										
D Holman 20/08/2010 Breaking out concrete, turning treatment beds	W	9.30 9.3	Sy 3	vegetation	0 4	1	0 25	10	19.2	78 00	no no			_		+	_			
D Holman 20/08/2010 Breaking out concrete, turning treatment beds	NW	10.18 10.2		vegetation	0 2	2 1	0		7	79 no	no									
D Holman 20/08/2010 Breaking out concrete, turning treatment beds	N	16.42 16.4	7 y 2	odour control	1 2	2 5	0		6	62 no	no	clear	9.189			7 SI	E 2	27 sunny	4 dry	Fault with Dust Mate, not able to record data.
D Holman 20/08/2010 Breaking out concrete, turning treatment beds	NE	16.36 16.4	1 y 2	odour control	1 2	2 5	0		- 6	66 no	no	clear		\Box		\Box				
D Holman 20/08/2010 Breaking out concrete, turning treatment beds D Holman 20/08/2010 Breaking out concrete, turning treatment beds	NE1	16.30 16.3 16.24 16.2										clear	9.649			_				
D Holman 20/08/2010 Breaking out concrete, turning treatment beds D Holman 20/08/2010 Breaking out concrete, turning treatment beds	ec e	16.24 16.2	ay 3	compost organic compost organic	.4 2	2 5	0			63 no	no no	clear	9.649			-	_			
D Holman 20/08/2010 Breaking out concrete, turning treatment beds	8	16.12 16.1	70/2	vegetation	0 2	2 1	0		-	65 00	1 00					-				
D Holman 20/08/2010 Breaking out concrete, turning treatment beds	SW	16.06 16.1	1 v 3	vegetation	0 4	4 1	0		7	74 no	no no									
D Holman 20/08/2010 Breaking out concrete, turning treatment beds	W	16.00 16.00		vegetation	0 4	4 1	0		8	81 no	no									
D Holman 20/08/2010 Breaking out concrete, turning treatment beds	NW	16.48 16.53	3 y 2	vegetation	0 2	2 1	0		8	80 no	no									
D Holman 23/08/2010 Breaking out concrete, turning treatment beds	N.	10.12 10.1 10.06 10.1	7 y 1	vegetation	0 2	2 1	0 7.1	5.	5.6	54 no	no	clear	9.209	_		5 W	VNW 1	17 cloudy	8 wet	
D Holman 23/08/2010 Breaking out concrete, turning treatment beds	NE NE	10.06 10.1	1 y 4	vegetation and exhaust fumes	0 2	2 3	0 153 166	3.7 50	50.6 59.8	55 no	no	clear				-	_			
D Holman 23/08/2010 Breaking out concrete, turning treatment beds D Holman 23/08/2010 Breaking out concrete, turning treatment beds	- NEI	9.54 9.5	2	compost organic and odour control	0 2	2 6	0 77.4	4 6	9.2	50 00		clear	9.649			-				
D Holman 23/08/2010 Breaking out concrete, turning treatment beds	SE	9.48 9.5	3v 3	compost organic	0 2	2 5	0			61 no	no no		3.043							
D Holman 23/08/2010 Breaking out concrete, turning treatment beds	S	9.48 9.5 9.42 9.4	7 n		2	2	0 11.7	.7 5.	5.4 6	64 no	no									
D Holman 23/08/2010 Breaking out concrete, turning treatment beds	SW	9.36 9.4			- 4	4	0		7	72 no	100									
D Holman 23/08/2010 Breaking out concrete, turning treatment beds	W	9.30 9.3		vegetation	0 4	4 1	0 13.4	.4 8.	3.7 7	79 no	no									
D Holman 23/08/2010 Breaking out concrete, turning treatment beds	NW	10.18 10.2	3 y 2	vegetation	0 2	2 1	0			81 no	no no					_				
D Holman 23/08/2010 Breaking out concrete, turning treatment beds D Holman 23/08/2010 Breaking out concrete, turning treatment beds	N NE	17.12 17.1	Y Z	vegetation vegetation	0 2	2 1	0 15.2	2 5.	3.3 D	57 00	no no	clear	9.209			b w	-	21 rain	4 wet	
D Holman 23/08/2010 Breaking out concrete, turning treatment beds	NF1	17.00 17.1		regelatori	,		13.9	9 1	10.1	33		clear				-				
D Holman 23/08/2010 Breaking out concrete, turning treatment beds	E	16.54 16.59	y 3	odour control	1 2	2 5	0 192		103.2	67 no	no	clear	9.649	1 1						
D Holman 23/08/2010 Breaking out concrete, turning treatment beds	SE	16.48 16.53	3 y 2	compost organic	0 2	2 5	0		6	64 no	no									
D Holman 23/08/2010 Breaking out concrete, turning treatment beds	S	16.42 16.4	7y 1	vegetation	0 2	2 1	0 12.1	.1 3.	3.1 6	63 no	no no				-					
D Holman 23/08/2010 Breaking out concrete, turning treatment beds D Holman 23/08/2010 Breaking out concrete, turning treatment beds	SW	16.36 16.4 16.30 16.3	1 y 2	vegetation vegetation	0 4	4 1	0 265.		77.4	76 no	no			\vdash		\vdash				
D Holman 23/08/2010 Breaking out concrete, turning treatment beds D Holman 23/08/2010 Breaking out concrete, turning treatment beds	W	16.30 16.3 17.18 17.2	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	vegetation vegetation	0 4	• 1	U 265.	0.0 3	32.1	00 NO	no no			\vdash		\vdash	-	_	_	
D Holman 24/08/2010 Turning Treatment beds and Trial pitting	N N	10.42 10.4	7 v 1	vegetation	0 5	2 1	0 62.4	4 4	13.2	57 nn	no no	clear	9.199	-		8 W	vsw	19 sunny/cloudy spells	4 wet	
D Holman 24/08/2010 Turning Treatment beds and Trial pitting	NE	10.36 10.4	1 y 3	vegetation odour control	1 2	2 5	0 144	4 67	37.2	57 no	no	clear		-		1		,,		
D Holman 24/08/2010 Turning Treatment beds and Trial pitting	NE1		5				38.4		14.1			clear					- 1			
D Holman 24/08/2010 Turning Treatment beds and Trial pitting	E	10.24 10.29	y 2	compost organic and exhaust fumes	-1 2	2 5	0 51.7	.7 3	32.9 7	70 no	no no	clear	9.649							
D Holman 24/08/2010 Turning Treatment beds and Trial pitting	SE	10.18 10.2	3ty 2	compost organic	0 2	2 5	0 81			67 no	no			\vdash		\vdash				
D Holman 24/08/2010 Turning Treatment beds and Trial pitting D Holman 24/08/2010 Turning Treatment beds and Trial pitting	S	10.12 10.1 10.06 10.1	(V 2	vegetation vegetation	0 2	4 1	0 8.1	1.	1.4 6	62 no	no no			\vdash		-	_	_	_	
D Holman 24/08/2010 Turning Treatment beds and Trial pitting D Holman 24/08/2010 Turning Treatment beds and Trial pitting	W	10.06 10.1		vegetation vegetation	ň ľ	1 1	0 111.	19 6	51.5 7	78 ~	1 80			\vdash		-	-+	_		
D Holman 24/08/2010 Turning Treatment beds and Trial pitting D Holman 24/08/2010 Turning Treatment beds and Trial pitting	NW	10.48 10.5	3v 2	vegetation and exhaust fumes	0 5	2 1	o iii			79 00	no			-						
D Holman 24/08/2010 Turning Treatment beds and Trial pitting	N	17.42 17.4	7 y 2	vegetation	0 2	2 1	0 53	4	44.8	56 no	no	clear	9.199			3 W	VNW 1	19.6 cloudy	8 damp	
D Holman 24/08/2010 Turning Treatment beds and Trial pitting	NE	17.36 17.4	1 y 4	odour control	1 2	2 5	0 213		39.4	61 no	no	clear								
D Holman 24/08/2010 Turning Treatment beds and Trial pitting	NE1	17.30 17.38	5				90.9		80.8			clear								
D Holman 24/08/2010 Turning Treatment beds and Trial pitting	E	17.24 17.2		odour control	0 2	2 5	0 242	2.1 15	159.7	59 no	no no	clear	9.649			_				
D Holman 24/08/2010 Turning Treatment beds and Trial pitting	SE	17.18 17.2 17.12 17.1	3 y 4	compost organic and odour control	0 0	2 5	0 27	2	24.8	65 no	no no					-	_			
D Holman 24/08/2010 Turning Treatment beds and Trial pitting D Holman 24/08/2010 Turning Treatment beds and Trial pitting	ew/	17.06 17.1	2	vegetation vegetation	0 4	4 1	0 37	-	24.0	72 00	100					-				
D Holman 24/08/2010 Turning Treatment beds and Trial pitting	W	17.00 17.0	5v 3	vegetation	0 4	4 1	0 101.	1.6 50	50.4 7	79 no	no no									
D Holman 24/08/2010 Turning Treatment beds and Trial pitting D Holman 24/08/2010 Turning Treatment beds and Trial pitting	NW	17.48 17.5 10.12 10.1	3y 2	vegetation	0 2	2 1	0		8	81 no	no									
D Holman 25/08/2010 Excavating and turning treatment beds	N	10.12 10.17	7 y 2	vegetation	0 2	2 1	0 175.	5.3 11	117.3	57 no	no	clear	9.209			3 W	VSW 2	21 Sun	4 dry	
D Holman 25/08/2010 Excavating and turning treatment beds	NE	10.06 10.1	1 y 2	vegetation	0 2	2 1	0 158	8.3 8	35.9 S	59 no	no	clear								
D Holman 25/08/2010 Excavating and turning treatment beds																				
Dilabora Of 20 DOMO Commission and business based to the state of the				andre or assessment		, ,						Chest	0.040							
D Holman 25/08/2010 Excavating and turning treatment beds	E	9.54 9.5	9y 3	odour control	0 2	2 5	0 115			56 no	no no	clear	9.649							
D Holman 25/08/2010 Excavating and turning treatment beds D Holman 25/08/2010 Excavating and turning treatment beds	E SE S	9.46 9.5 9.47 9.4	3 v 3	compost, organic, earthy and odour control	0 2 0 2	2 5 2 5 2 1	0 115	5.1 98		56 no 55 no 63 no	no no	clear	9.649							
D Holman 2508/2016 Excavating and turning treatment bods D Holman 2508/2016 Excavating and turning treatment bods D Holman 2508/2016 Excavating and surring treatment bods D Holman 2508/2016 Excavating and burning treatment bods D Holman 2508/2016 Excavating and burning treatment bods	E SE S SW	9.46 9.5 9.47 9.4 9.36 9.4	3 v 3	compost, organic, earthy and odour control	0 2 0 2 0 2	2 5 2 5 2 1 4 1	0 115. 0 0 238. 0 238.	5.1 96 8.6 63	38 5 53.6 6	56 no 55 no 63 no 71 no	no no no	clear	9.649							
D Holiman 2508/2010 Excavating and turning treatment beds	E SE S SW W	9.46 9.5 9.47 9.4 9.36 9.4 9.30 9.3	3 v 3	compost, organic, earthy and odour control	0 2 0 2 0 2 0 4	2 5 2 5 2 1 4 1 4 1	0 115. 0 0 238. 0 0 167.	5.1 98 8.6 63 7.5 10		56 no 55 no 63 no 71 no 78 no	100 100 100 100 100	clear	9.649							
D Holman 250862016 Exacuting and turning treatment bods	E SE S SW W NW	9.46 9.5 9.47 9.4 9.36 9.4 9.30 9.3 10.18 10.2	3 v 3	compost, organic, earthy and odour control	0 2 0 2 0 2 0 4 0 4	2 5 2 5 2 1 4 1 4 1 2 1	0 115. 0 0 238. 0 0 167.	5.1 96 8.6 6: 7.5 10	38 5 53.6 6 7 103.5 7	56 no 55 no 63 no 71 no 78 no 81 no	100 100 100 100 100 100									
D Holman	E SE S SW W NW NW	9.46 9.5 9.47 9.4 9.36 9.4 9.30 9.3 10.18 10.2 17.12 17.1	3 v 3	compost, organic, earthy and odour control vegetation vegetation vegetation vegetation	0 2 0 2 0 4 0 4 0 2	2 5 2 5 2 1 4 1 4 1 2 1	0 115. 0 238. 0 167. 0 157.	5.1 96 8.6 63 7.5 10	33.6 6 7 103.5 7 86.4 6	56 no 55 no 63 no 71 no 78 no 81 no 61 no	no no no	clear				0.5 S		14 Rain	8 wet	
2-500/2019	E SE S SW W NW NW	9.46 9.5 9.47 9.4 9.36 9.4 9.30 9.3 10.18 10.2 17.12 17.1 17.06 17.1	3 v 3	compost, organic, earthy and odour control	0 2 0 2 0 4 0 4 0 2 0 2	2 5 2 5 2 1 4 1 4 1 2 1 2 1	0 115. 0 238. 0 167. 0 152. 0 152.	5.1 98 8.6 6: 7.5 10 2 66 1.3 3	38 5 53.6 6 7 103.5 7 8 66.4 6 34.8 5	56 no 55 no 63 no 71 no 78 no 81 no 61 no 59 no	no no no	clear				0.5 S		14 Rain	8 wet	
Holland H	E SE S SW W NW NW N N NE	9.46 9.5 9.47 9.4 9.36 9.4 9.30 9.3 10.18 10.2 17.12 17.1 17.06 17.1 17.00 17.0	3 v 3	compost, organic, earthy and odour control vegetation vegetation vegetation vegetation vegetation	0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 5 2 5 2 1 4 1 4 1 2 1 2 1	0 115. 0 238. 0 238. 0 167. 0 152. 0 201. 256.	5.1 96 8.6 63 7.5 10 2 66 1.3 3 6.6 2	38 5 53.6 6 703.5 7 866.4 6 34.8 5 218.6	56 no 55 no 63 no 71 no 78 no 81 no 61 no	no no no	clear clear	9.209			0.5 S		14 Rain	8 wet	
D-Holison 25000/2016 Excussing and turning teatment bads	E SE S S W W NW N NE NE SE SE S S S S S S S S S S S S S	9.46 9.5: 9.47 9.4' 9.36 9.4 9.30 9.3: 10.18 10.2: 17.12 17.1: 17.06 17.1: 17.00 17.0: 16.54 16.5:	3 v 3	compost, organic, earthy and odour control regetation	0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 5 2 5 2 1 4 1 4 1 2 1 2 1 2 1	0 115. 0 238. 0 167. 0 167. 0 152. 0 201. 256.	5.1 96 8.6 63 7.5 10 2 66 1.3 3 6.6 2	38 5 53.6 6 7 103.5 7 8 66.4 6 34.8 5	56 no 55 no 63 no 71 no 78 no 81 no 61 no 69 no	no no no	clear				0.5 S		14 Rain	8 wet	
Distance 2009/07/6 Recomplay and surray seasons task Pericana 2009/07/6 Recomplay and surray seasons Pericana 2009/07/6 Recomplay seasons Pericana 2009/07/6 Re	E SE S S SW W NW N N N N N N N N N N N N N N	9.46 9.55 9.47 9.4' 9.36 9.4 9.30 9.30 10.18 10.2: 17.12 17.1: 17.06 17.1: 17.00 17.0: 16.54 16.5: 16.48 16.5: 16.47 16.4'	3 v 3	compost, organic, earthy and odour control vegetation vegetation vegetation vegetation vegetation vegetation vegetation compost and odour control compost of compost and odour control compost organic vegetation.	0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 5 2 5 2 1 4 1 4 1 2 1 2 1 2 2 1 2 5 2 5 2 5 2 1	0 115. 0 238. 0 238. 0 167. 0 152. 0 201. 256.	5.1 98 8.6 60 7.5 10 2 66 1.3 34 6.6 22 6.4 21	38 5 53.6 6 703.5 7 866.4 6 34.8 5 218.6	56 no 55 no 63 no 71 no 78 no 81 no 61 no 69 no 64 no 67 no	no no no	clear clear	9.209			0.5 S		14 Rain	8 wet	
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Appendix C

Long term Passive VOC Monitoring





St. Martins House, 77 Wales Street Winchester, Hampshire SO23 0RH tel.: 01962 860331 fax: 01962 841339 e-mail:diffusion@gradko.co.uk

LABORATORY ANALYSIS REPORT

REPORT NUMBER GCMS4409 CUSTOMER Vertase FLI Ltd **GRADKO LAB REFERENCE GMSE 1539-1548**

DATE SAMPLES RECEIVED 10.08.10 DESPATCH REF.NUMBER SOR004443 BOOKING IN REF. D 4181 **JOB NUMBER** 907BRI/4041

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

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

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

Top 10 VOC'S

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

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

Top 10 VOC'S

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

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

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LABORATORY ANALYSIS REPORT

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

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

Top 10 VOC'S

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

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

Top 10 VOC'S

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

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LABORATORY ANALYSIS REPORT

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

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

Top 10 VOC'S

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

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

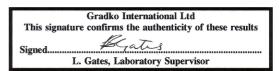
Top 10 VOC'S

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

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LABORATORY ANALYSIS REPORT

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

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

Top 10 VOC'S

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

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

Top 10 VOC'S

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

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LABORATORY ANALYSIS REPORT

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

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

Top 10 VOC'S

ng on tube	ppb in air*
290.61	3.60
100.10	1.24
80.23	0.99
41.58	0.52
25.03	0.31
24.42	0.30
17.41	0.22
13.70	0.17
13.07	0.16
11.51	0.14
	290.61 100.10 80.23 41.58 25.03 24.42 17.41 13.70 13.07

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

Top 10 VOC'S

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

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	L. Gates, Laboratory Supervisor





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LABORATORY ANALYSIS REPORT

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

Analysts Signature Date of Analysis 17.07.10

Analysts Name Sandra Wilkin Date of Report 19.07.10

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

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LABORATORY ANALYSIS REPORT

REPORT NO. PE6MS0771 **CUSTOMER VERTASE FLI**

19 Napier Court, Barlborough

Sheffield S43 4PZ

GRADKO LAB REF PE6E2168-2178

BOOKING REF. NUMBER D 4694 **DATE SAMPLES RECEIVED** 08.09.10

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

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

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

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

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

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Report Number PE6MS0771

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LABORATORY ANALYSIS REPORT

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

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

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

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

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

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LABORATORY ANALYSIS REPORT

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

Top10 Compounds	ng on tube	ppb in air*	μgm-3*
Tetrachloroethylene	161.07	1.98	13.02
Toluene	112.56	1.39	5.10
mp-Xylene	15.30	0.19	0.80
Benzene, 1,2-dichloro-3-methyl-	10.90	0.13	0.86
Benzene, 1,2,4-trichloro-3-methyl-	10.78	0.13	1.03
o-Xylene	9.77	0.12	0.51
Benzene	8.00	0.10	0.31
Phenol	6.46	0.08	0.30
Octane	5.26	0.06	0.30
Trichloroethylene	5.21	0.06	0.33

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

Top10 Compounds	ng on tube	ppb in air*	μgm-3*
Tetrachloroethylene	88.92	1.10	7.19
Toluene	53.32	0.66	2.42
mp-Xylene	12.84	0.16	0.67
o-Xylene	9.09	0.11	0.47
Benzene	6.15	0.08	0.24
Trichloroethylene	4.82	0.06	0.31
Benzene, 1,2,4-trichloro-3-methyl-	3.65	0.04	0.35
Benzene, 1,4-dichloro-	3.44	0.04	0.25
8 Compounds Detected			

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

Top10 Compounds	ng on tube	ppb in air*	μgm-3*
Tetrachloroethylene	77.01	0.95	6.22
Toluene	48.99	0.60	2.22
mp-Xylene	15.01	0.18	0.78
o-Xylene	10.11	0.12	0.53
Benzene	8.36	0.10	0.32

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LABORATORY ANALYSIS REPORT

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

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

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

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

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

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LABORATORY ANALYSIS REPORT

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

Top10 Compounds	ng on tube	ppb in air*	μgm-3*
Naphthalene	516.92	6.36	32.54
Naphthalene, 1-methyl-	71.90	0.88	5.02
Tetrachloroethylene	37.79	0.46	3.05
Naphthalene, 2-methyl-	37.00	0.45	2.58
Toluene	23.68	0.29	1.07
mp-Xylene	8.73	0.11	0.45
Benzene	6.81	0.08	0.26
Trichloroethylene	2.59	0.03	0.17
Octane	5.54	0.07	0.31
Tetradecane	5.00	0.06	0.49

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

Top10 Compounds	ng on tube	ppb in air*	μgm-3*
Toluene	21.32	0.26	0.96
mp-Xylene	14.41	0.18	0.75
Benzene	11.29	0.14	0.43
o-Xylene	8.52	0.10	0.44
Tetrachloroethylene	7.98	0.10	0.64
Ethylbenzene	5.33	0.07	0.28
Dodecane	4.10	0.05	0.34
Heptadecane	2.95	0.04	0.35
8 Compounds Detected			

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

Analyst's Name G. Aikman Date of Analysis 14.09.10

Date of Report 15.09.10

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L. Gates, Laboratory Supervisor





Appendix D

Directional Dust Monitoring

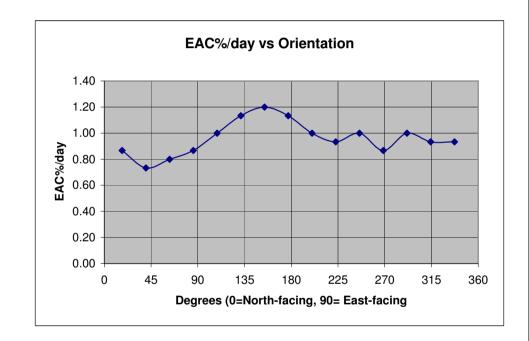


Sticky Pad Data

Gauge Number - North location 907BRI

Sticky Pad Data

Sticky rad	Data				
Date On	22/07/2010	Date Off	06/08/2010	Days =	15
Clean =	90				
X Axis mm	Meter	Angle deg	EAC%/day		
20	76	337	0.93		
40	76	314	0.93		
60	75	291	1.00		
80	77	269	0.87		
100	75	246	1.00		
120	76	223	0.93		
140	75	200	1.00		
160	73	177	1.13		
180	72	154	1.20		
200	73	131	1.13		
220	75	109	1.00		
240	77	86	0.87		
260	78	63	0.80		
280	79	40	0.73		
300	77	17	0.87		



Note: Cells coloured yellow are inputs.

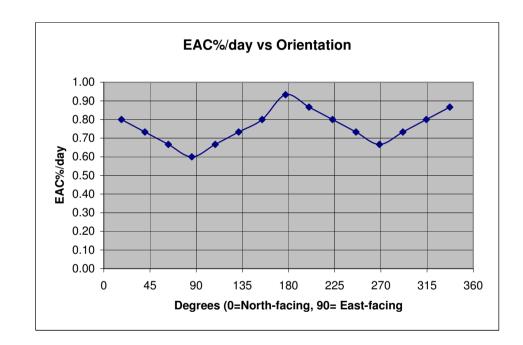
The rest are either constants or calculated values.



Gauge Number - NE1 location 907BRI

Sticky Pad Data

Sticky Fau	Data			
Date On	22/07/2010	Date Off	06/08/2010	Days = 15
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	77	337	0.87	
40	78	314	0.80	
60	79	291	0.73	
80	80	269	0.67	
100	79	246	0.73	
120	78	223	0.80	
140	77	200	0.87	
160	76	177	0.93	
180	78	154	0.80	
200	79	131	0.73	
220	80	109	0.67	
240	81	86	0.60	
260	80	63	0.67	
280	79	40	0.73	
300	78	17	0.80	



Note: Cells coloured yellow are inputs.

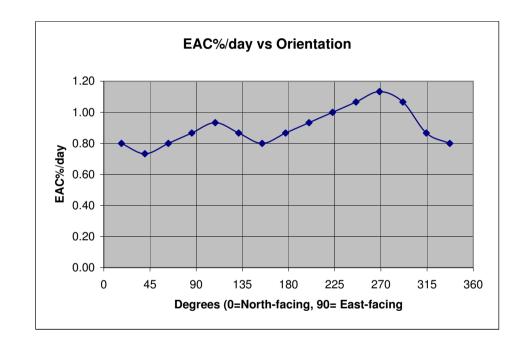
The rest are either constants or calculated values.



Gauge Number - NE2 location 907BRI

Sticky Pad Data

Ottoky i da	Dutu			
Date On	22/07/2010	Date Off	06/08/2010	Days = 15
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	78	337	0.80	
40	77	314	0.87	
60	74	291	1.07	
80	73	269	1.13	
100	74	246	1.07	
120	75	223	1.00	
140	76	200	0.93	
160	77	177	0.87	
180	78	154	0.80	
200	77	131	0.87	
220	76	109	0.93	
240	77	86	0.87	
260	78	63	0.80	
280	79	40	0.73	
300	78	17	0.80	



Note: Cells coloured yellow are inputs.

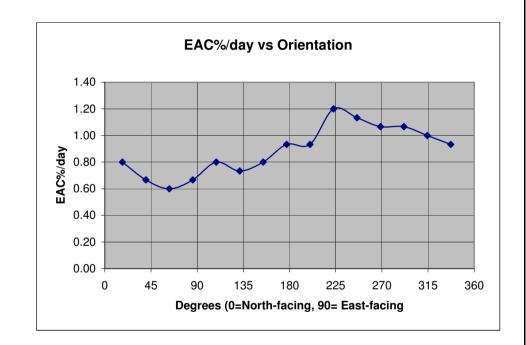
The rest are either constants or calculated values.



Gauge Number - South location 907BRI

Sticky Pad Data

Ottoky i da	Dutu			
Date On	22/07/2010	Date Off	06/08/2010	Days = 15
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	76	337	0.93	
40	75	314	1.00	
60	74	291	1.07	
80	74	269	1.07	
100	73	246	1.13	
120	72	223	1.20	
140	76	200	0.93	
160	76	177	0.93	
180	78	154	0.80	
200	79	131	0.73	
220	78	109	0.80	
240	80	86	0.67	
260	81	63	0.60	
280	80	40	0.67	
300	78	17	0.80	



Note: Cells coloured yellow are inputs.

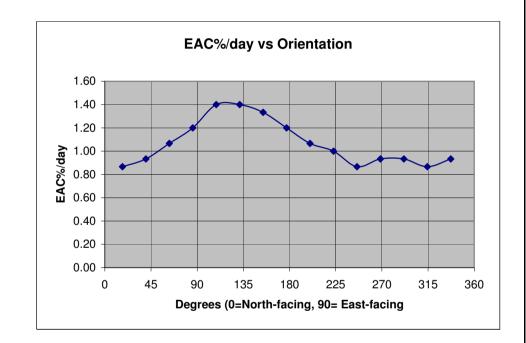
The rest are either constants or calculated values.



Gauge Number - West location 907BRI

Sticky Pad Data

Ottoky i da	Dutu			
Date On	22/07/2010	Date Off	06/08/2010	Days = 15
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	76	337	0.93	
40	77	314	0.87	
60	76	291	0.93	
80	76	269	0.93	
100	77	246	0.87	
120	75	223	1.00	
140	74	200	1.07	
160	72	177	1.20	
180	70	154	1.33	
200	69	131	1.40	
220	69	109	1.40	
240	72	86	1.20	
260	74	63	1.07	
280	76	40	0.93	
300	77	17	0.87	



Note: Cells coloured yellow are inputs.

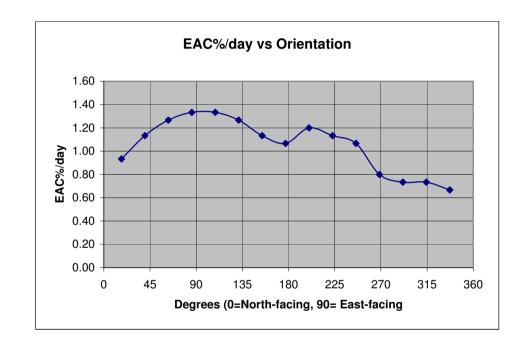
The rest are either constants or calculated values.



Gauge Number - East location 907BRI

Sticky Pad Data

outility . aa				
Date On	22/07/2010	Date Off	06/08/2010	Days = 15
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	80	337	0.67	
40	79	314	0.73	
60	79	291	0.73	
80	78	269	0.80	
100	74	246	1.07	
120	73	223	1.13	
140	72	200	1.20	
160	74	177	1.07	
180	73	154	1.13	
200	71	131	1.27	
220	70	109	1.33	
240	70	86	1.33	
260	71	63	1.27	
280	73	40	1.13	
300	76	17	0.93	



Note: Cells coloured yellow are inputs.

The rest are either constants or calculated values.

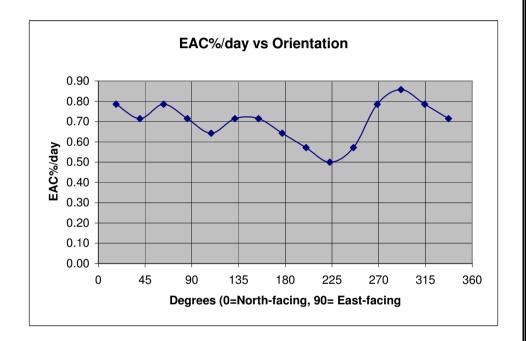


Sticky Pad Data

Gauge Number - North location 907BRI

Sticky Pad Data

Sticky Fau	Dala				
Date On	06/08/2010	Date Off	20/08/2010	Days =	14
Clean =	90				
X Axis mm	Meter	Angle deg	EAC%/day		
20	80	337	0.71		
40	79	314	0.79		
60	78	291	0.86		
80	79	269	0.79		
100	82	246	0.57		
120	83	223	0.50		
140	82	200	0.57		
160	81	177	0.64		
180	80	154	0.71		
200	80	131	0.71		
220	81	109	0.64		
240	80	86	0.71		
260	79	63	0.79		
280	80	40	0.71		
300	79	17	0.79		



Note: Cells coloured yellow are inputs.

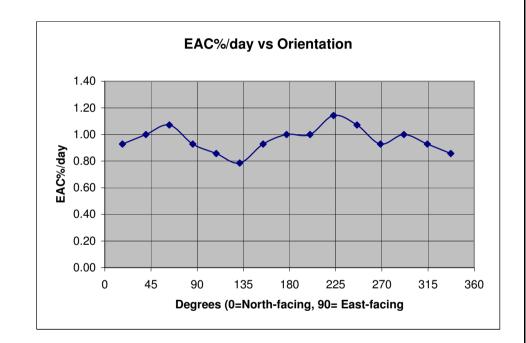
The rest are either constants or calculated values.



Gauge Number - NE1 location 907BRI

Sticky Pad Data

outionly i au				
Date On	06/08/2010	Date Off	20/08/2010	Days = 14
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	78	337	0.86	
40	77	314	0.93	
60	76	291	1.00	
80	77	269	0.93	
100	75	246	1.07	
120	74	223	1.14	
140	76	200	1.00	
160	76	177	1.00	
180	77	154	0.93	
200	79	131	0.79	
220	78	109	0.86	
240	77	86	0.93	
260	75	63	1.07	
280	76	40	1.00	
300	77	17	0.93	



Note: Cells coloured yellow are inputs.

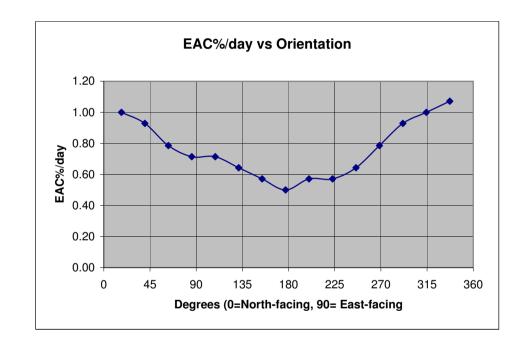
The rest are either constants or calculated values.



Gauge Number - NE2 location 907BRI

Sticky Pad Data

Sticky Fau	Dala			
Date On	06/08/2010	Date Off	20/08/2010	Days = 14
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	75	337	1.07	
40	76	314	1.00	
60	77	291	0.93	
80	79	269	0.79	
100	81	246	0.64	
120	82	223	0.57	
140	82	200	0.57	
160	83	177	0.50	
180	82	154	0.57	
200	81	131	0.64	
220	80	109	0.71	
240	80	86	0.71	
260	79	63	0.79	
280	77	40	0.93	
300	76	17	1.00	



Note: Cells coloured yellow are inputs.

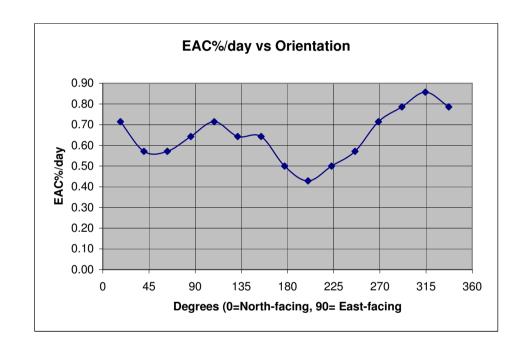
The rest are either constants or calculated values.



Gauge Number - South location 907BRI

Sticky Pad Data

Sticky rau	Data			
Date On	06/08/2010	Date Off	20/08/2010	Days = 14
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	79	337	0.79	
40	78	314	0.86	
60	79	291	0.79	
80	80	269	0.71	
100	82	246	0.57	
120	83	223	0.50	
140	84	200	0.43	
160	83	177	0.50	
180	81	154	0.64	
200	81	131	0.64	
220	80	109	0.71	
240	81	86	0.64	
260	82	63	0.57	
280	82	40	0.57	
300	80	17	0.71	



Note: Cells coloured yellow are inputs.

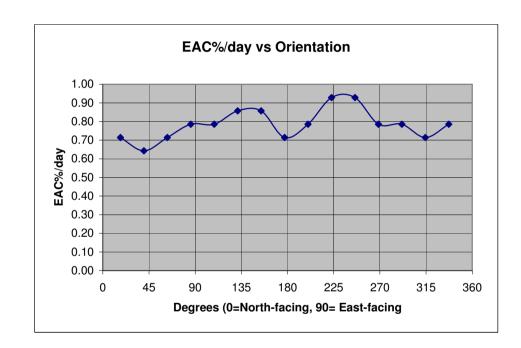
The rest are either constants or calculated values.



Gauge Number - West location 907BRI

Sticky Pad Data

Sucky Pau	Dala				
Date On	06/08/2010	Date Off	20/08/2010	Days =	14
Clean =	90				
X Axis mm	Meter	Angle deg	EAC%/day		
20	79	337	0.79		
40	80	314	0.71		
60	79	291	0.79		
80	79	269	0.79		
100	77	246	0.93		
120	77	223	0.93		
140	79	200	0.79		
160	80	177	0.71		
180	78	154	0.86		
200	78	131	0.86		
220	79	109	0.79		
240	79	86	0.79		
260	80	63	0.71		
280	81	40	0.64		
300	80	17	0.71		



Note: Cells coloured yellow are inputs.

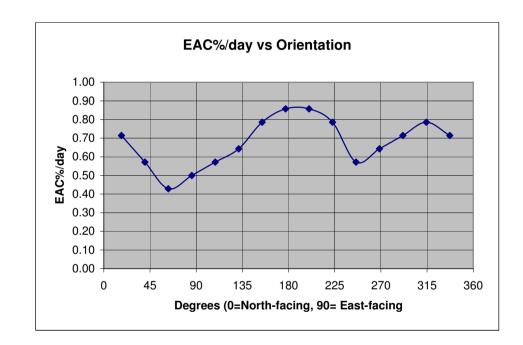
The rest are either constants or calculated values.



Gauge Number - East location 907BRI

Sticky Pad Data

Slicky Fau	Data			
Date On	06/08/2010	Date Off	20/08/2010	Days = 14
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	80	337	0.71	
40	79	314	0.79	
60	80	291	0.71	
80	81	269	0.64	
100	82	246	0.57	
120	79	223	0.79	
140	78	200	0.86	
160	78	177	0.86	
180	79	154	0.79	
200	81	131	0.64	
220	82	109	0.57	
240	83	86	0.50	
260	84	63	0.43	
280	82	40	0.57	
300	80	17	0.71	



Note: Cells coloured yellow are inputs.

The rest are either constants or calculated values.



Appendix E Groundwater Level Data

Former Bayer Cropscience Site Groundwater and surface water levels

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



Appendix F Surface Water Analysis Reports



Scientific Analysis Laboratories Certificate of Analysis

Hadfield House Hadfield Street Cornbrook Manchester M16 9FE

Tel: 0161 874 2400 Fax: 0161 874 2468

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

Report Number: 211291-2

Date of Report: 10-Sep-2010

Customer: VertaseFLI Limited

19 Napier Court
Barlborough Links
Barlborough
S43 4PZ

Customer Contact: The Project Management

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

The results reported relate to samples received in the laboratory

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

This report should not be reproduced except in full without the written approval of the laboratory

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



Report checked and authorised by : Amelia McVennon Project Manager Issued by : Amelia McVennon Project Manager

CAAA.

Water Analysed as Water

Vertase Hauxton Suite

			SA	L Reference	211291 001	211291 002	211291 003	211291 004	211291 005
		Custon	ner Samp	e Reference	S2/6	BH10B/06	BH4	BH9	S3/4
			D	ate Sampled	27-AUG-2010	27-AUG-2010	27-AUG-2010	27-AUG-2010	27-AUG-2010
Determinand Method Test Sample LOD Units									
Electrical Conductivity	T7	AR	10	μS/cm	2000	2000	1400	2300	4500
pН	T7	AR			11.6	9.1	7.6	7.3	6.9

SAL Reference: 211291
Customer Reference: 907BRI

Water Analysed as Water

Vertase Hauxton Suite

			SA	L Reference	211291 006	211291 007	211291 008	211291 009	211291 010
		Custon	ner Sampl	e Reference	BH11	BH6/06	S1/8	4/06	S3/6
			Da	ate Sampled	27-AUG-2010	27-AUG-2010	26-AUG-2010	26-AUG-2010	26-AUG-2010
	1	1							
Determinand	Method	Test Sample	LOD	Units					
Electrical Conductivity	T7	AR	10	μS/cm	480	920	2200	1300	2700
pН	T7	AR		10000	7.6	7.2	7.2	7.3	7.0

SAL Reference: 211291 Customer Reference: 907BRI

Water Analysed as Water

Vertase Hauxton Suite

		200	SA	Reference	211291 011	211291 012	211291 013	211291 014	211291 015
		Custon	ner Sampl	e Reference	CAM UPSTREAM	CAM DOWNSTREAM	RIDDY UPSTREAM	RIDDY DOWNSTREAM	BH8/06
			Da	te Sampled	26-AUG-2010	26-AUG-2010	26-AUG-2010	26-AUG-2010	31-AUG-2010
Determinand	Method	Test Sample	LOD	Units		10.00		ř	
Electrical Conductivity	T7	AR	10	μS/cm	820	780	750	750	830
pH	T7	AR		1972	7.7	7.9	7.7	7.8	7.7

SAL Reference: 211291
Customer Reference: 907BRI

Nater Analysed as Water

Vertase Hauxton OP/ON Suite

			SA	L Reference	211291 001	211291 002	211291 003	211291 004	211291 005
		Custon	ner Sampl	e Reference	S2/6	BH10B/06	BH4	BH9	S3/4
			Da	te Sampled	27-AUG-2010	27-AUG-2010	27-AUG-2010	27-AUG-2010	27-AUG-2010
Determinand	Method	Test Sample	LOD	Units	_30/				
Dimefox	T16	AR	0.1	μg/l	<0.1	<0.1	<0.1	<0.1	⁽⁹⁾ <1.0
Ethofumesate	T16	AR	0.1	μg/l	⁽²⁷⁾ 180	210	140	6.0	3.0
Hempa	T16	AR	0.1	μg/l	<0.1	<0.1	<0.1	0.6	460
Schradan	T16	AR	0.1	μg/l	<0.1	<0.1	<0.1	<0.1	150
Simazine	T16	AR	0.01	μg/l	<0.01	37	2.0	<0.01	⁽⁹⁾ <0.10

Water Analysed as Water

Vertase Hauxton OP/ON Suite

			SA	L Reference	211291 006	211291 007	211291 008	211291 009	211291 010
		Custor	ner Sampl	e Reference	BH11	BH6/06	S1/8	4/06	S3/6
	Date Samp					27-AUG-2010	26-AUG-2010	26-AUG-2010	26-AUG-2010
Determinand	Method	Test Sample	LOD	Units					
Dimefox	T16	AR	0.1	μg/l	<0.1	<0.1	<0.1	⁽⁹⁾ <1.0	<0.1
Ethofumesate	T16	AR	0.1	μg/l	4.8	1.0	370	610	270
Hempa	T16	AR	0.1	μg/l	0.2	<0.1	<0.1	⁽⁹⁾ <1.0	<0.1
Schradan	T16	AR	0.1	μg/l	0.2	<0.1	44	8.0	380
Simazine	T16	AR	0.01	μg/l	0.14	<0.01	3.7	⁽⁹⁾ <0.10	17

SAL Reference: 211291 Customer Reference: 907BRI

Water Analysed as Water

Vertase Hauxton OP/ON Suite

			SA	L Reference	211291 011	211291 012	211291 013	211291 014	211291 015
		Custor	ner Sampl	e Reference	CAM UPSTREAM	CAM DOWNSTREAM	RIDDY UPSTREAM	RIDDY DOWNSTREAM	BH8/06
			D	ate Sampled	26-AUG-2010	26-AUG-2010	26-AUG-2010	26-AUG-2010	31-AUG-2010
Determinand	Method	Test Sample	LOD	Units					
Dimefox	T16	AR	0.1	μg/l	<0.1	<0.1	<0.1	<0.1	<0.1
Ethofumesate	T16	AR	0.1	μg/l	<0.1	0.2	<0.1	0.8	48
Hempa	T16	AR	0.1	μg/l	<0.1	<0.1	<0.1	<0.1	4.1
Schradan	T16	AR	0.1	μg/l	<0.1	<0.1	<0.1	<0.1	4.3
Simazine	T16	AR	0.01	μg/l	<0.01	<0.01	<0.01	0.14	1.6

SAL Reference: 211291 Customer Reference: 907BRI

Water Analysed as Water

Vertase Hauxton Phenoxy Acid Herbs Suite

			700 11/						
			SA	L Reference	211291 001	211291 002	211291 003	211291 004	211291 005
		Custon	ner Sampl	e Reference	S2/6	BH10B/06	BH4	ВН9	S3/4
			D	ate Sampled	27-AUG-2010	27-AUG-2010	27-AUG-2010	27-AUG-2010	27-AUG-2010
Determinand	Method	Test Sample	LOD	Units			1 - N		
Dicamba	T16	AR	0.1	μg/l	160	18	4.8	0.1	0.4
Dichlorprop	T16	AR	0.1	μg/l	250	27	5.7	<0.1	3.8
Phenoxy Acetic acid herbicide: MCPA	T16	AR	0.1	μg/l	3500	2200	72	2.3	4.7
Mecoprop T16 AR 0.1 μg/l					1300	1000	93	0.5	46

SAL Reference: 211291 Customer Reference: 907BRI

Water Analysed as Water

Vertase Hauxton Phenoxy Acid Herbs Suite

			SA	L Reference	211291 006	211291 007	211291 008	211291 009	211291 010
		Custon	ner Sampl	le Reference	BH11	BH6/06	S1/8	4/06	S3/6
			D	ate Sampled	27-AUG-2010	27-AUG-2010	26-AUG-2010	26-AUG-2010	26-AUG-2010
	1								
Determinand	Determinand Method Test Sample LOD Units								
Dicamba	T16	AR	0.1	μg/l	<0.1	<0.1	11	0.2	27
Dichlorprop	T16	AR	0.1	μg/l	<0.1	<0.1	31	11	510
Phenoxy Acetic acid herbicide: MCPA	T16	AR	0.1	μg/l	<0.1	<0.1	200	5.3	1600
Mecoprop	T16	AR	0.1	μg/l	0.8	<0.1	110	30	980

Water Analysed as Water

Vertase Hauxton Phenoxy Acid Herbs Suite

			SA	L Reference	211291 011	211291 012	211291 013	211291 014	211291 015
		Custor	ner Samp	le Reference	CAM UPSTREAM	CAM DOWNSTREAM	RIDDY UPSTREAM	RIDDY DOWNSTREAM	BH8/06
			D	ate Sampled	26-AUG-2010	26-AUG-2010	26-AUG-2010	26-AUG-2010	31-AUG-2010
Determinand	Method	Test Sample	LOD	Units					
Dicamba	T16	AR	0.1	μg/l	<0.1	<0.1	<0.1	<0.1	0.9
Dichlorprop	T16	AR	0.1	μg/l	<0.1	<0.1	<0.1	<0.1	0.6
Phenoxy Acetic acid herbicide: MCPA	T16	AR	0.1	μg/l	<0.1	<0.1	<0.1	<0.1	43
Mecoprop	T16	AR	0.1	μg/l	<0.1	0.7	<0.1	1.6	6.3

SAL Reference: 211291 Customer Reference: 907BRI

Water Analysed as Water

Vertase Hauxton SVOC Suite

			SA	L Reference	211291 001	211291 002	211291 003	211291 004	211291 005
		Custor	mer Sampl	e Reference	S2/6	BH10B/06	BH4	BH9	S3/4
			Da	ate Sampled	27-AUG-2010	27-AUG-2010	27-AUG-2010	27-AUG-2010	27-AUG-2010
Determinand	Method	Test Sample	LOD	Units					
2,4,6-Trichlorophenol	T16	AR	10	μg/l	280	190	<10	<10	<10
2-Methyl-4,6-dinitrophenol	T16	AR	10	μg/l	3200	5500	690	<10	<10
4-Chloro-2-methylphenol	T16	AR	10	μg/l	1500	150	450	<10	<10
Bis (2-chloroethyl) ether	T16	AR	10	μg/l	<10	120	82	62	1300
Phenol	T16	AR	10	μg/l	(147) 2900	(162) < 50	(162) < 50	(162) < 50	(162) < 50

SAL Reference: 211291 Customer Reference: 907BRI

Water Analysed as Water

Vertase Hauxton SVOC Suite

		Custor		L Reference e Reference	211291 006 BH11	211291 007 BH6/06	211291 008 S1/8	211291 009 4/06	211291 010 S3/6
			Da	ate Sampled	27-AUG-2010	27-AUG-2010	26-AUG-2010	26-AUG-2010	26-AUG-2010
Determinand	Method	Test Sample	LOD	Units		100 M	and not .		
2,4,6-Trichlorophenol	T16	AR	10	μg/l	<10	<10	2900	11	2100
2-Methyl-4,6-dinitrophenol	T16	AR	10	μg/l	<10	<10	<10	<10	<10
4-Chloro-2-methylphenol	T16	AR	10	μg/l	<10	<10	3000	33	1900
Bis (2-chloroethyl) ether	T16	AR	10	μg/l	<10	<10	2300	1400	10000
Phenol	T16	AR	10	μg/l	(162) < 50	(162) < 50	(162) < 50	(162) < 50	(162) < 50

SAL Reference: 211291 Customer Reference: 907BRI

Water Analysed as Water

Vertase Hauxton SVOC Suite

			SA	L Reference	211291 011	211291 012	211291 013	211291 014	211291 015
		Custor	ner Samp	le Reference	CAM UPSTREAM	CAM DOWNSTREAM	RIDDY UPSTREAM	RIDDY DOWNSTREAM	BH8/06
			D	ate Sampled	26-AUG-2010	26-AUG-2010	26-AUG-2010	26-AUG-2010	31-AUG-2010
Determinand	Method	Test Sample	LOD	Units					
2,4,6-Trichlorophenol	T16	AR	10	μg/l	<10	<10	<10	<10	<10
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	(162) < 50	(162) < 50	(162) < 50	(162) < 50	(162) < 50

Water Analysed as Water

Vertase Hauxton VOC Suite

·	-		SA	L Reference	211291 001	211291 002	211291 003	211291 004	211291 005
		Custon	ner Sampl	e Reference	S2/6	BH10B/06	BH4	ВН9	S3/4
			Da	te Sampled	27-AUG-2010	27-AUG-2010	27-AUG-2010	27-AUG-2010	27-AUG-2010
Determinand	Method	Test Sample	LOD	Units					
1,2-Dichlorobenzene	T54	AR	1	μg/l	12	8	1	4	4
1,2-Dichloroethane	T54	AR	1	μg/l	⁽¹³⁾ <1				
Cis-1,2-Dichloroethylene	T54	AR	1	μg/l	2	73	620	3	2
Cyclohexanone	T54	AR	10	μg/l	<10	<10	<10	<10	<10
Tetrachloroethylene	T54	AR	1	μg/l	290	400	3	170	170
Toluene	T54	AR	1	μg/l	90	10	2	<1	3
Trichloroethylene	T54	AR	1	μg/l	110	54	13	25	36
Vinyl chloride	T54	AR	1	μg/l	<1	12	110	<1	<1
Xylene (Total)	T54	AR	1	μg/l	41	6	57	6	60

SAL Reference: 211291 Customer Reference: 907BRI

Water Analysed as Water

Vertase Hauxton VOC Suite

			SAI	L Reference	211291 006	211291 007	211291 008	211291 009	211291 010
		Custon	ner Sample	e Reference	BH11	BH6/06	S1/8	4/06	S3/6 26-AUG-2010
			Da	te Sampled	27-AUG-2010	27-AUG-2010	26-AUG-2010	26-AUG-2010	
Determinand	Method	Test Sample	LOD	Units					
1,2-Dichlorobenzene	T54	AR	1	μg/l	4	1	⁽¹⁹⁾ 1400	5	⁽¹⁹⁾ 760
1,2-Dichloroethane	T54	AR	1	μg/l	(13) <1	(13) <1	^(13,19) 1700	⁽¹³⁾ <1	^(19,13) 710
Cis-1,2-Dichloroethylene	T54	AR	1	μg/l	<1	<1	⁽¹⁹⁾ 3200	<1	⁽¹⁹⁾ 4000
Cyclohexanone	T54	AR	10	μg/l	<10	<10	(19,9) <200	<10	⁽¹⁹⁾ 640
Tetrachloroethylene	T54	AR	1	μg/l	160	53	(19) 9200	<1	⁽¹⁹⁾ 34000
Toluene	T54	AR	1	μg/l	1	5	⁽¹⁹⁾ 22000	<1	⁽¹⁹⁾ 12000
Trichloroethylene	T54	AR	1	μg/l	20	4	⁽¹⁹⁾ 1800	<1	⁽¹⁹⁾ 25000
Vinyl chloride	T54	AR	1	μg/l	<1	<1	⁽¹⁹⁾ 370	<1	⁽¹⁹⁾ 410
Xylene (Total)	T54	AR	1	μg/l	2	3	⁽¹⁹⁾ 1900	290	⁽¹⁹⁾ 2800

SAL Reference: 211291 Customer Reference: 907BRI

Water Analysed as Water

Vertase Hauxton VOC Suite

				L Reference	211291 011	211291 012	211291 013	211291 014	211291 015
		Custon	•	e Reference	CAM UPSTREAM	CAM DOWNSTREAM	RIDDY UPSTREAM	RIDDY DOWNSTREAM	BH8/06
	_		Da	te Sampled	26-AUG-2010	26-AUG-2010	26-AUG-2010	26-AUG-2010	31-AUG-2010
Determinand	Method	Test Sample	LOD	Units					
1,2-Dichlorobenzene	T54	AR	1	μg/l	<1	<1	<1	<1	3
1,2-Dichloroethane	T54	AR	1	μg/l	⁽¹³⁾ <1	⁽¹³⁾ <1	⁽¹³⁾ <1	(13) <1	(13) <1
Cis-1,2-Dichloroethylene	T54	AR	1	μg/l	<1	<1	<1	<1	<1
Cyclohexanone	T54	AR	10	μg/l	<10	<10	<10	<10	<10
Tetrachloroethylene	T54	AR	1	μg/l	2	1	3	2	140
Toluene	T54	AR	1	μg/l	<1	<1	2	2	12
Trichloroethylene	T54	AR	1	μg/l	<1	<1	<1	<1	16
Vinyl chloride	T54	AR	1	μg/l	<1	<1	<1	<1	<1
Xylene (Total)	T54	AR	1	μg/l	<1	<1	<1	<1	7

Index to symbols used in 211291-2

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

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

Method Index

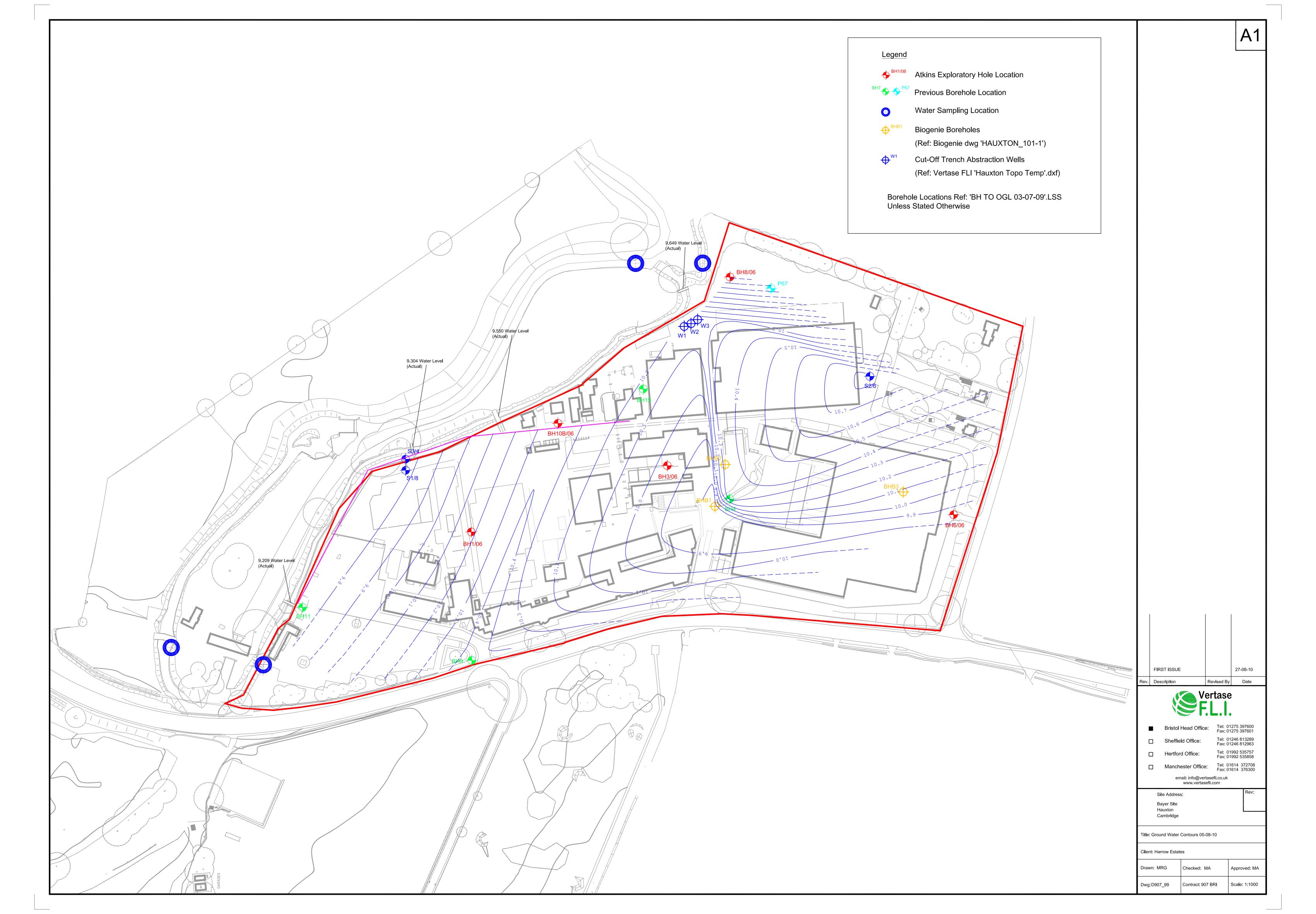
Value	Description
T16	GC/MS
T7	Probe
T54	GC/MS (Headspace)

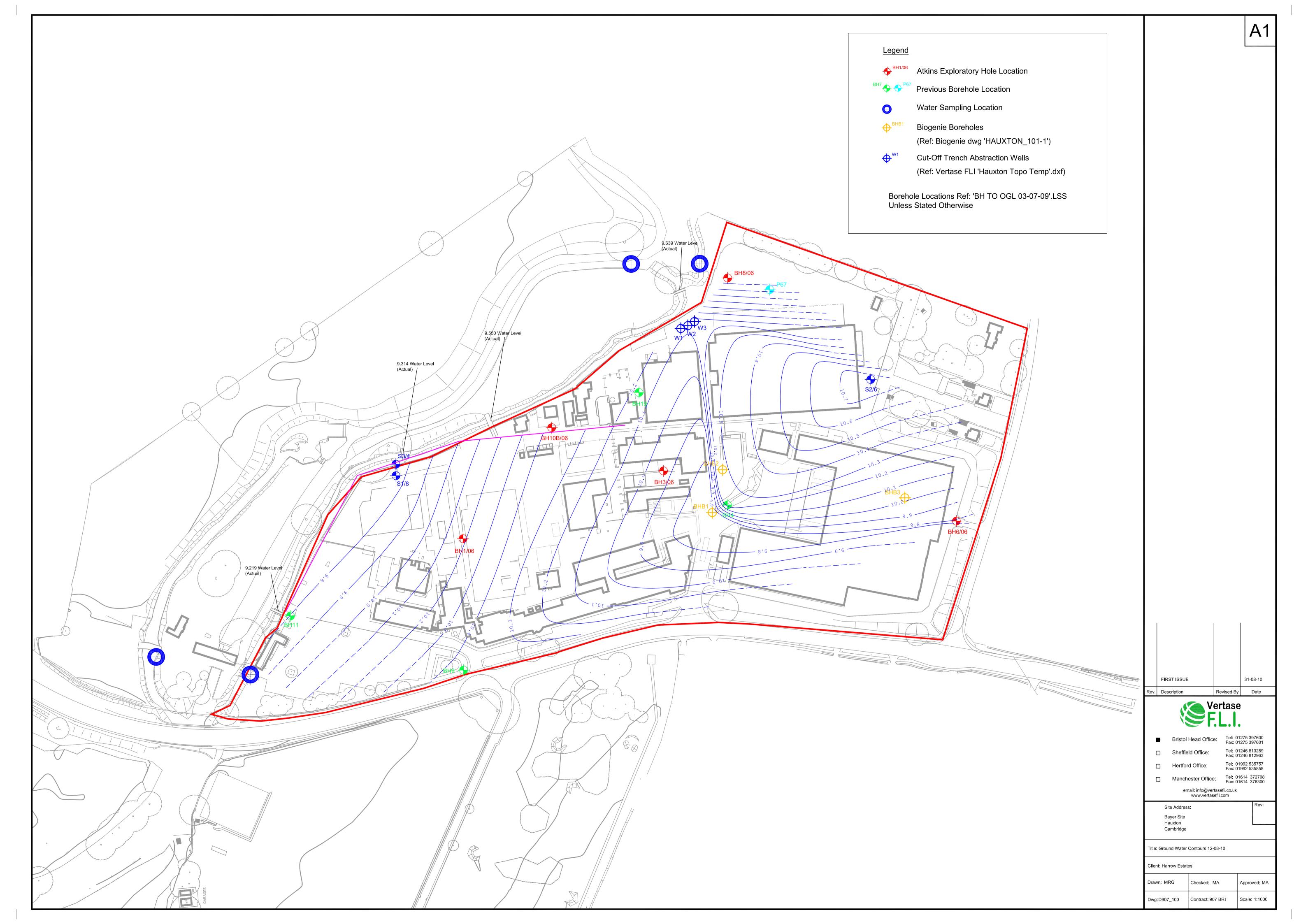
Accreditation Summary

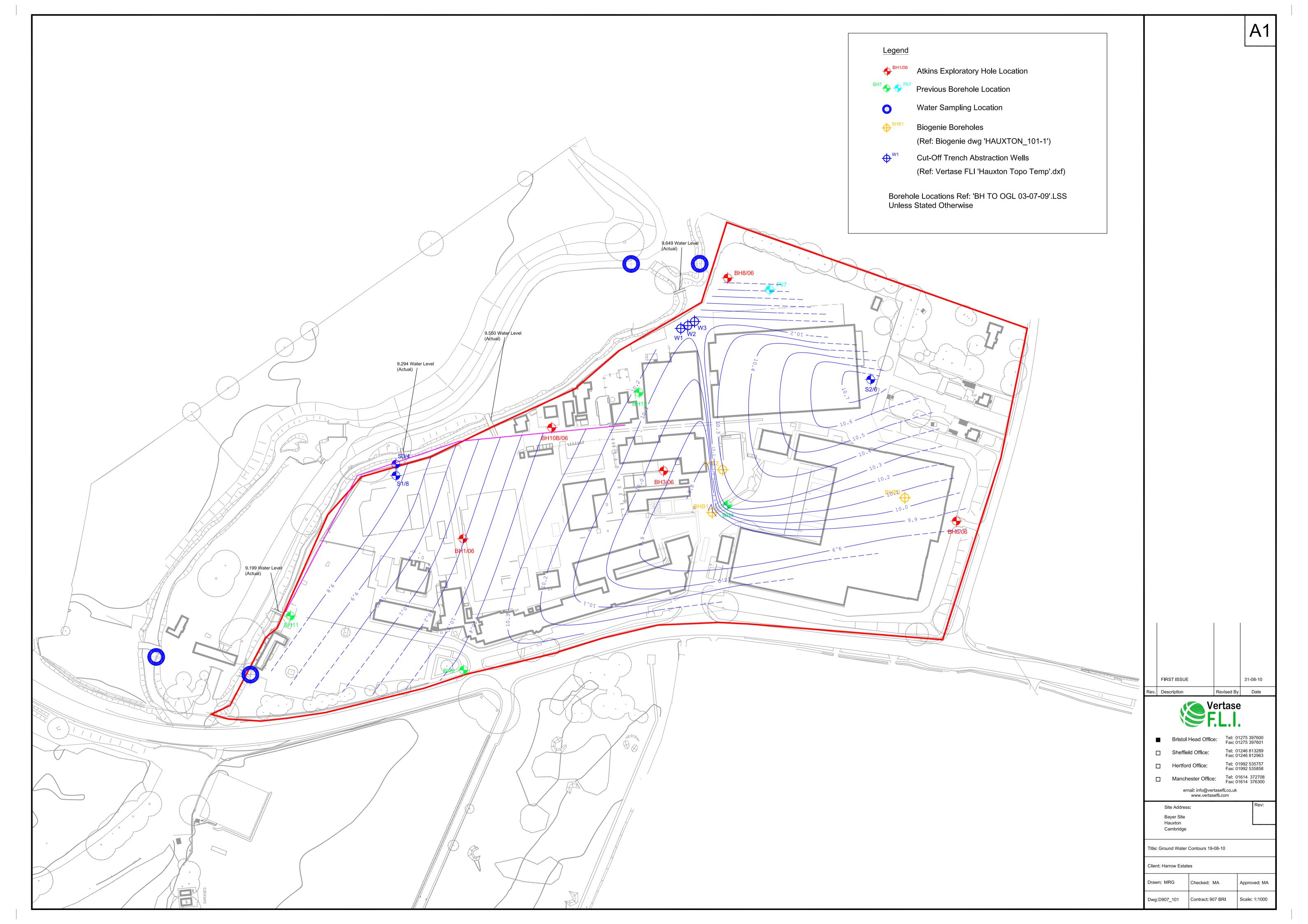
Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Electrical Conductivity	T7	AR	10	μS/cm	N	001-015
рН	T7	AR			U	001-015
Dimefox	T16	AR	0.1	μg/l	N	001-015
Ethofumesate	T16	AR	0.1	μg/l	N	001-015
Hempa	T16	AR	0.1	μg/l	N	001-015
Schradan	T16	AR	0.1	μg/l	N	001-015
Simazine	T16	AR	0.01	μg/l	N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

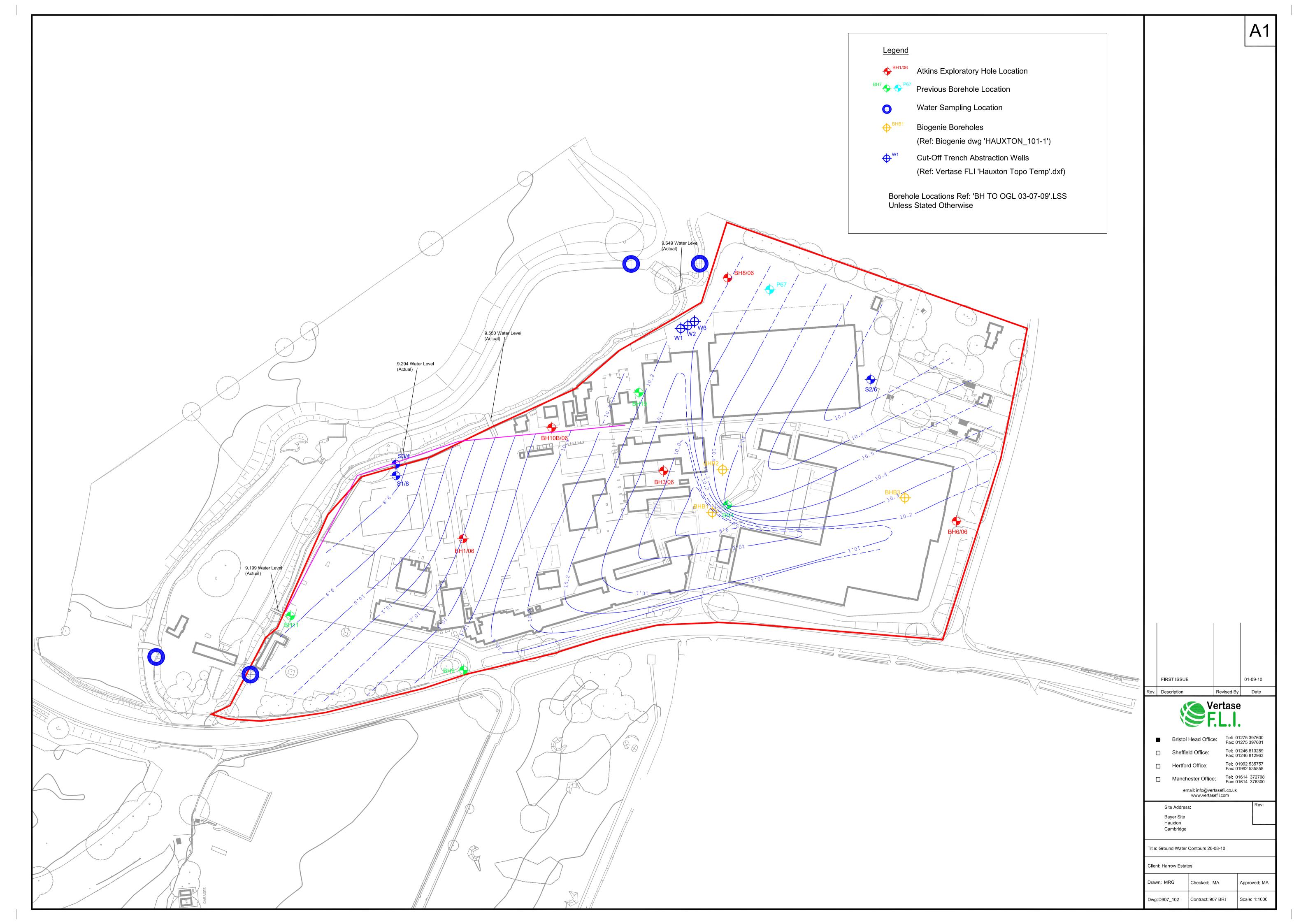


Appendix G
Groundwater Contour Plots











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		Atrazine	Trietazine	Simazine	Total Atrazine, Trietazine and Simazine		2,3,6-TBA	Dicamba	Hempa	Schradan
Sample Taken	Report Date Report I	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 Le	evels		50	3000	5000	45	15	30	na	To	otal of all th	ree	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			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			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			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			T99 Discharge	<1.0	110.00	200.00	<10	<0.05	6.60	8.2	<0.01	<0.01	<0.01	0.00	<0.2	3.00	<0.2	3.30	0.60
18/05/2010			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			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			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			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			WWTW Discharge	<1.0	160.00	300.00	<10	< 0.05	<3	8.0	0.02	0.09	0.02	0.13	<0.5	0.40	<0.1	<0.1	<0.1
19/08/2010	26/08/2010	209961	WWTW Discharge	<1.0	160.00	260.00	<10	< 0.05	<3	7.7	< 0.01	< 0.01	< 0.01	0.00	<0.1	<0.1	<0.1	<0.1	<0.1



Scientific Analysis Laboratories Certificate of Analysis

Hadfield House Hadfield Street Cornbrook Manchester M16 9FE

Tel: 0161 874 2400 Fax: 0161 874 2468

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

Report Number: 208693-2

Date of Report: 16-Aug-2010

Customer: VertaseFLI Limited

19 Napier Court
Barlborough Links
Barlborough
S43 4PZ

Customer Contact: The Project Management

Customer Job Reference: 907 BRI WWTW

Date Job Received at SAL: 06-Aug-2010

Date Analysis Started: 06-Aug-2010

Date Analysis Completed: 16-Aug-2010

The results reported relate to samples received in the laboratory

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

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



Report checked and authorised by : Amelia McVennon Project Manager Issued by : Amelia McVennon Project Manager SAL Reference: 208693
Customer Reference: 907 BRI WWTW

Water Analysed as Water
Miscellaneous

			SA	L Reference	208693 001	208693 002
	WWTW INPUT	WWTW Discharge				
Determinand	Method	Test Sample	LOD	Units		
Ammoniacal nitrogen	T4	AR	50	μg/l	1300	<50
Biochemical Oxygen Demand	T7	AR	3000	μg/l	<3000	<3000
pH	T7	AR			7.4	8.0

SAL Reference: 208693

Customer Reference: 907 BRI WWTW

Water Analysed as Water

Suite A

			SA	L Reference	208693 001	208693 002
		WWTW INPUT	WWTW Discharge			
Determinand	Method	Test Sample	LOD	Units		
Atrazine	T16	AR	0.01	μg/l	6.0	0.02
Trietazine	T16	AR	0.01	μg/l	23	0.09

SAL Reference: 208693
Customer Reference: 907 BRI WWTW

Water Analysed as Water

Suite B

ounce B						
			SA	L Reference	208693 001	208693 002
		WWTW INPUT	WWTW Discharge			
Determinand	Method	Test Sample	LOD	Units		
Benazolin	T16	AR	0.1	μg/l	160	(2) < 0.5
2,3,6-TCB	T16	AR	0.1	μg/l	160	0.4

SAL Reference: 208693 Customer Reference: 907 BRI WWTW

Water Analysed as Water

Suite C

			SA	L Reference	208693 001	208693 002
		WWTW INPUT	WWTW Discharge			
Determinand	Method	Test Sample	LOD	Units		
Bromide	T253	AR	100	μg/l	⁽⁹⁾ <1000	⁽⁹⁾ <1000
Chloride	T253	AR	200	μg/l	150000	160000
Sulphate ion	T253	AR	100	μg/l	330000	300000
Suspended Solids (Total)	T2	AR	10000	μg/l	260000	<10000

SAL Reference: 208693
Customer Reference: 907 BRI WWTW

Water Analysed as Water

Suite D

			SA	L Reference	208693 001	208693 002
		WWTW INPUT	WWTW Discharge			
Determinand	Method	Test Sample	LOD	Units		
Dicamba	T16	AR	0.1	μg/l	4.4	<0.1
Hempa	T16	AR	0.1	μg/l	3.0	<0.1
Schradan	T16	AR	0.1	μg/l	1.2	<0.1
Simazine	T16	AR	0.01	ug/l	6.8	0.02

Index to symbols used in 208693-2

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

Method Index

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

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Ammoniacal nitrogen	T4	AR	50	μg/l	U	001-002
Biochemical Oxygen Demand	T7	AR	3000	μg/l	N	001-002
рН	T7	AR		0.579	U	001-002
Atrazine	T16	AR	0.01	μg/l	N	001-002
Trietazine	T16	AR	0.01	μg/l	N	001-002
Benazolin	T16	AR	0.1	μg/l	N	001-002
2,3,6-TCB	T16	AR	0.1	μg/l	N	001-002
Bromide	T253	AR	100	μg/l	U	001-002
Chloride	T253	AR	200	μg/l	U	001-002
Sulphate ion	T253	AR	100	μg/l	U	001-002
Suspended Solids (Total)	T2	AR	10000	μg/l	N	001-002
Dicamba	T16	AR	0.1	μg/l	N	001-002
Hempa	T16	AR	0.1	μg/l	N	001-002
Schradan	T16	AR	0.1	μg/l	N	001-002
Simazine	T16	AR	0.01	μg/l	N	001-002



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Tel: 0161 874 2400 Fax: 0161 874 2468

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

Report Number: 209961-1

Date of Report: 26-Aug-2010

Customer: VertaseFLI Limited

19 Napier Court
Barlborough Links
Barlborough
S43 4PZ

Customer Contact: The Project Management

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

The results reported relate to samples received in the laboratory

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

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



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

SAL Reference: 209961 Customer Reference: 907 BRI WWTW

Water Analysed as Water

Miscellaneous

		209961 001	209961 002			
		WWTW DISCHARGE	WWTW PRIMARY B			
	13-AUG-2010	13-AUG-2010				
Determinand	Method	Test Sample	LOD	Units		
Ammoniacal nitrogen	T4	AR	0.05	mg/l	<0.05	<0.05
Biochemical Oxygen Demand	T7	AR	3	mg/l	<3	<3
pH	T7	AR			7.7	7.9

SAL Reference: 209961 Customer Reference: 907 BRI WWTW

Water Analysed as Water

Suite A

		209961 001	209961 002			
		WWTW DISCHARGE	WWTW PRIMARY B			
		13-AUG-2010	13-AUG-2010			
Determinand	Method	Test Sample	LOD	Units		
Atrazine	T16	AR	0.00001	mg/l	<0.00001	<0.00001
Trietazine	T16	AR	0.00001	mg/l	<0.00001	0.00003

SAL Reference: 209961 Customer Reference: 907 BRI WWTW

Water Analysed as Water

Suite B						
			SA	L Reference	209961 001	209961 002
		e Reference	WWTW DISCHARGE	WWTW PRIMARY B		
	Date Sampled					13-AUG-2010
Determinand	Method	Test Sample	LOD	Units		
Benazolin	T16	AR	0.0001	mg/l	<0.0001	<0.0001
2,3,6-TCB	T16	AR	0.0001	mg/l	<0.0001	0.018

SAL Reference: 209961 Customer Reference: 907 BRI WWTW

Water Analysed as Water

Suite C

		WWTW DISCHARGE	WWTW PRIMARY B			
		13-AUG-2010	13-AUG-2010			
Determinand Method Test Sample LOD Units						
Bromide	T253	AR	0.1	mg/l	⁽⁹⁾ <1.0	⁽⁹⁾ <1.0
Chloride	T253	AR	0.2	mg/l	160	160
Sulphate ion	T253	AR	0.1	mg/l	260	260
Suspended Solids (Total)	T2	ΔR	10	ma/l	~10	~10

SAL Reference

209961 001

209961 002

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

SAL Referen	nce: 2099	61				
Customer Referen	nce: 907 E	BRI WWTW	'			
Water Suite E	Analy	/sed as Wa	ter			
		209961 001	209961 002			
		Custor	ner Samp	le Reference	WWTW DISCHARGE	WWTW PRIMARY B
			D	ate Sampled	13-AUG-2010	13-AUG-2010
Determinand	Method	Test Sample	LOD	Units		
TVC at 22°C after 3 days	T34	AR	10	cfu/ml	> 10000	> 10000
TVC at 37°C after 2 days	T34	AR	10	cfu/ml	> 10000	> 10000

Index to symbols used in 209961-1

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

Method Index

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

Accreditation Summary

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

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





Appendix I Soil Characterisation Results Summary

Results Received	Reported to SCDC	Grid square	Contaminant	Concentration (µg/kg)	Likely use/origin
12.04.2010	06.05.2010	K15		VOC/SVOC peak	ks detected
12.04.2010	06.05.2010	K16	Series of Aromatic Hydrocarbons circa C ₁₃ -C ₁₆	17,000	Potential herbicide degradation products. The structrues 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(1-methylpropyl)-phenol	10,000	Encountered and assessed during site investigation, not a priority contaminant
	15.04.2010 06.05.2010 (09.06.2010)	1 116	2,6-bis(1-methylpropyl)-phenol	100,000	Commonly used in the manufacture of specialty surfactants used as wetting agents for agrochemicals.
15.04.2010			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 structrues are smaller and less complex
			Unidentified branched aromatic alcohol, C ₁₈	290,000	than contaminants of concern and will therefore degrade more readily than the target contaminants and will be captured by
			Phenanthrene	4,100	Encountered and assessed during site
15.04.2010	06.05.2010	K14	Fluoranthene	4,800	investigation, concentration below target
			Pyrene	3,900	value
			Benzo(b/k)Fluoranthene	2,200	
			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.
07.05.2010	24.05.2010	K9	Unidentified Aliphatic Hydrocarbon circa C ₃₀	2,300	Potential herbicide degradation products. The structrues 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.

		I	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	L8	Dodecanoic acid (Lauric acid),	7,400	Lauric acid - main acid in coconut oil and
07.00.2010	(09.06.2010)		isooctyl ester		palm kernel oil, is non-toxic and safe to
					handle, is used in many soaps, shampoos
					and body butters.
			Unidentified aromatic	8,400	Potential herbicide degradation products.
			hydrocarbon containing O and Cl		The structrues are smaller and less complex
			circa C ₇		than contaminants of concern and will
					therefore degrade more readily than the
					target contaminants and will be captured by
07.05.2010	24.05.2010	1.0	I Inidentified Alimbetia	0.200	the remediation process. Potential herbicide degradation products.
07.05.2010	24.05.2010	L9	Unidentified Aliphatic Hydrocarbon circa C ₃₀	2,300	The structures are smaller and less complex
			Trydrocarbon circa C ₃₀		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		,
			1,2-bis(2,4,6-	6,900	Potential Prochloraz degradation product
			trichlorophenoxy)ethane		
			Prochloraz	9,100	Fungicide
	24.05.2010		Unidentified aromatic	9,400	Potential herbicide degradation products.
13.05.2010	(09.06.2010)	H9	hydrocarbon containing Cl circa		The structures are smaller and less complex
	(00.00.2010)		C ₈		than contaminants of concern and will
			Unidentified aromatic amine	2,100	therefore degrade more readily than the
			containing CI circa C ₁₁		target contaminants and will be captured by
					the remediation process.
13.05.2010	24.05.2010	17	No SVOC peaks detected		
			2,4-Dichloro-o-cresol	29,000	

Contaminants Not Previously Identified

1			2,3,6-Trichlorotoluene	47,000	Detection best initial to the define and the total
			1-(2-Chloroethoxy)-2-(o-Tolyloxy)	20,000	Potential herbicide degradation product
			ethane		
13.05.2010	24.05.2010	19	Unidentified aromatic alcohol	25,000	Potential herbicide degradation products.
10.00.2010	(09.06.2010)		containing CI circa C ₇		The structures are smaller and less complex
			Unidentified aromatic	12,000	than contaminants of concern and will therefore degrade more readily than the
			hydrocarbon containing O circa		target contaminants and will be captured by
			C ₁₆₋₁₈		the remediation process.
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	H7	Dichloromethyl phenol	2,100	Same as 2,4-Dichloro-o-cresol (I9)
	(09.06.2010)				
05.05.2010	16.06.2010	K7	1,2-bis(2,4,6-	2400.0	As for H9
	(09.06.2010)		trichlorophenoxy)ethane		
05.05.2010	16.06.2010	K8	No VOC/SVOC peaks detected		
			2-methyl phenol	5,500	Encountered and assessed during site
18.06.2010	29.06.2010	18		0.000	investigation, not a priority contaminant
			1,2-dichlorobenzene	3,600	Contaminant of concern, already included in the standard validation suite
17.06.2010	29.06.2010	K10	2,4-Dichloro-o-cresol	550,000	As for I9 and H7
17.00.2010	(09.06.2010)	KIO	2,4-Dicilio10-0-cresor	330,000	As for 19 and 117
22.06.2010	(00.00.2010)	L10	Cyclo octaatomic sulphur	16,000	As for L8 - Sulphur
			Dichloromethyl phenol	1,800,000	As for 2,4-Dichloro-o-cresol (I9, H7, K10)
			Naphthalene	4,600,000	Encountered and assessed during site
			2-methylnaphthalene	3,900,000	investigation, not a priority contaminant
20.07.2010	21.07.2010	K10 NAPL	1-methylnaphthalene	2,400,000	More toxic than 2-methylnaphthalene, must
20.07.2010	21.07.2010	KIONALE	CAS 90-12-0	2,400,000	be assessed separately
			Dinoseb		2-(1-methylpropyl)-4,6-dinitro- phenol -
			CAS 88-85-7	68,000,000	herbicide and insecticide. Yellow crystalline
			Dichloromethyl phenol	24,000	solid. As for 2,4-Dichloro-o-cresol (I9, H7, K10)
			1-(2-Chloroethoxy)-2-(o-Tolyloxy)	24,000	AS IOI 2,4-DICHIDIO-O-CIESOI (19, 17, KTU)
			ethane <i>CAS 21120-</i>	13,000	Same as I9
			80-9	. 5,555	333
1		1			

21.07.2010	22.07.2010	J10	1,2,4-Trichlorobenzene Trichlorobenzene	28,000 32,000	Encountered and assessed during site
			2-Chlorotoluene	60,000	investigation, not a priority contaminant
			Trichloro toluene isomer	48,000	Same as I9
			Trichloro benzenamine isomer	11,000	
			2,3-Dichlorotoluene CAS 32768-54-0	290,000	Potential herbicide degradation product
21.07.2010	22.07.2010	L11	Dichloromethyl phenol	5,000	As for 2,4-Dichloro-o-cresol (I9, H7, K10, J10)
			2,4-Dichloro-o-cresol CAS 1570-65-6	10,000	As for I9, H7, K10, J10, L11
28.07.2010	02.08.2010	H10	Trichloro toluene isomers	58,000	Same as I9, J10
26.07.2010	02.06.2010	НІО	Dichlorotoluene isomer	52,000	6 possible isomers, but very little data, using surrogate.
			2-Chlorotoluene	39,000	Encountered and assessed during site
			Trichlorobenzene	350,000	investigation, not a priority contaminant
28.07.2010	02.08.2010	l10	2,4-Dichloro-o-cresol CAS 1570-65-6	5,000	As for I9, H7, K10, J10, L11, H10
20.07.2010	02.00.2010	110	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	l13	1-methylnaphthalene CAS 90-12-0	100	Same as K10NAPL

Former Bayer Cropscience Site

Contaminants Not Previously Identified

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