Environmental Monitoring Report

Reporting Period
01/08/2011-28/08/2011

Former Bayer Crop Science Site
Hauxton
Cambridgeshire

14th September 2011

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CONTENTS

1.0 Introduction 1
1.1. General 1
1.2. The site 1
1.3. Remediation Brief and Philosophy 1
2.0 Monthly Progress 3
Week 73. Week Commencing 1st August 2011 3
Week 74. Week Commencing 8th August 2011 3
Week 75. Week Commencing 15th August 2011 3
Week 76. Week Commencing 22nd August 2011 4
3.0 Environmental Monitoring Summary 5
3.1. Odour and VOC Emissions 5
3.2. Dust Fibre and Particulate Emission 7
3.3. Control of Mud and Debris 8
3.4. Noise 8
3.5. Litter 9
4.0 Surface and Ground Water Condition 10
4.1. Surface Water Monitoring 10
4.2. Surface Water Sampling and Analysis 10
4.3. Groundwater Level Monitoring 11
4.4. Groundwater Sampling and Analysis 12
5.0 Waste Water Treatment Plant 13
6.0 Contaminants Not Previously Identified 15

APPENDICIES

A Drawings

B Environmental Monitoring Data

C Long Term Passive VOC Monitoring

D Directional Dust Monitoring

E Groundwater Level Data

F Surface Water and Groundwater Analysis Reports

G Groundwater Level Graph

H Waste Water Treatment Plant Discharge Analysis

I Soil Characterisation Results Summary

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 1st of August 2011, until the 28th of August 2011.

1.2. The site

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

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

1.3. Remediation Brief and Philosophy

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

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

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

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

2.0 Monthly Progress

Week 73. Week Commencing 1st August 2011

No excavations undertaken were due to restricted space on site. Restoration using treated soils continued in the centre of the site. A number of stockpiles and treatment beds were relocated from the south eastern corner to the west of the site to allow for further excavation and validation in the south east corner of the site. Concrete slab from the eastern parts of the site was broken out and crushed for future use. Turning of treatment beds continued to promote biological degradation and dry the material in preparation for reinstatement.

Week 74. Week Commencing 8th August 2011

Excavation was undertaken in the southeast corner of the site with materials being stockpiled in the east of the site. Excavation of Gault clay was undertaken in the north of the site in preparation for the removal of the bentonite wall structure. Restoration of remediated soils continued in the centre of the site and northern parts of the site. The breaking out and crushing of concrete slab continued in the eastern part of the site, followed by a trial pitting exercise to investigate the geology and potential contamination in the eastern parts of the site. Turning of treatment beds was undertaken to promote biological degradation and dry the material in preparation for reinstatement. The north eastern boundary wall was demolished in preparation for the removal of the bentonite wall works.

Week 75. Week Commencing 15th August 2011

Excavation of the bentonite wall structure commenced in grid square G10 with impacted bentonite and marl being sent initially to treatment beds, as the materials became less impacted in the north of the site this material once excavated was used directly as fill in the centre of the site. The excavations along the route of the bentonite wall were restored with marl excavated from the southeast of the site.

Restoration of remediated soils continued in the centre of the site and along the bentonite wall. The breaking out and crushing of concrete slab continued in the eastern part of the site. Turning of treatment beds was undertaken to promote biological degradation and dry the material in preparation for reinstatement.

Week 76. Week Commencing 22nd August 2011

Excavation of the bentonite wall structure continued in grid squares I6, J5 and K5 with very low impacted bentonite and marl being used directly as fill in the centre of the site. The excavations along the route of the bentonite wall were restored with marl excavated from the southeast of the site.

Restoration of remediated soils continued in the centre of the site and along the bentonite wall. The breaking out and crushing of concrete slab continued in the eastern part of the site. Turning of treatment beds was undertaken to promote biological degradation and dry the material in preparation for reinstatement. Off site disposal of one particularly recalcitrant treatment bed commenced with this waste being transported under the hazardous waste regulations to an off site licensed disposal facility.

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. Three mobile telescopic misting fans were used on site and a full boundary misting system was also used to supplement the mobile units.

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 specific 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. The PID will not function correctly in wet weather conditions, this has prevented real-time monitoring on a number of days and data is missing from the environmental monitoring spreadsheet for this reason. During the reported period VOC's were detected by the PID (Limit of detection of 0.1ppm) beyond the site boundary on the following occasions:

On the 10/08/2011at 17:20 the PID registered an intermittent peak of 0.1ppm at the northern monitoring location, odours related to the odour control solution sprays were intermittent and barely traceable. No action required.

On the 12/08/2011at 09:51 the PID registered an intermittent peak of 0.3ppm at the northeast, southwest, west and northwest monitoring locations, odours related to the odour control solution sprays were intermittent and barely traceable. No action required.

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 07/07/2011 and 11/08/2011 are reported in appendix C. The analysis undertaken for this monitoring period indicates that the majority of the VOC's detected are around the baseline, except for Tetrachloroethene which is on occasion slightly raised above the baseline values but are well below the levels considered to be within acceptable limits for published criteria.

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

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

3.2. Dust Fibre and Particulate Emission

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

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

Dust particle measurements at each monitoring location have varied, with the higher dust readings being generally at the locations adjacent to the heavily trafficked Cambridge Road (A10). The average Total Suspended Particulates (TSP) reading around the site is 112.55µg/m^3, the average PM10 dust reading around the site is 61.57µg/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 25/07/2011 to 15/08/2011 (6 locations monitored) recorded a maximum dust deposition rate was 1.05%EAC at both the north and south monitoring locations. All other locations had a maximum dust deposition rate of 0.76%EAC, or less.

Dust monitoring undertaken from the 15/08/2011 to 30/08/2011(5 locations monitored only due to 1# damaged on site) recorded a maximum dust deposition rate was 1.40%EAC at the south monitoring location. All other locations had a maximum dust deposition rate of 0.67%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 and a fully automatic wheel wash has been on site during the reporting period to allow all maintenance, plant delivery and off site disposal 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 68dB. 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 have not been any significant changes in levels 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 27th July 2011 are presented in Appendix F, results for samples taken on the 31st August 2011 are pending laboratory analysis and will be reported in a supplemental report.

The surface water analysis of the 27th July 2011 shows trace levels of Mecoprop (2.9 µg/l) and Tetrachloroethylene (2 µg/l) detected in all surface water samples analysed, River Cam (Granta) up and down stream and the Riddy Brook up stream and down stream.

These trace levels identified in the July 2011 sampling round have been recorded in the baseline data collected prior to the commencement of the remediation project and are not related to a specific site 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_31G, in appendix A. The groundwater levels are presented in Appendix E.

A groundwater level graph has been constructed to illustrate the variation in groundwater level at the monitoring locations across the site for the reporting period (Appendix G).

The graph constructed (Appendix G) illustrates that there have been little changes to groundwater levels within the boreholes across the site during the monitoring period. However upon completion of the bentonite wall removal borehole S3/4 on the eastern side of the wall has dried up completely and remains dry.

There has been limited perched groundwater flow to some parts of the marl at approximately 2m below ground level to the south of the site during the excavation in this area, these have been easily managed and have generally stopped flowing after a day or so.

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 27th July 2011 and the 31st August 2011 are presented in appendix F.

The contaminant concentrations present in the samples taken on the 27th of July and the 30th August 2011, have a similar distribution of contaminants when compared to the baseline data collected during the summer of 2008, however there is a considerable reduction in concentration of the main contaminants in the groundwater samples adjacent to the areas that have undergone remediation.

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 28/08/2011, eighty six characterisation samples have been taken by Vertase FLI in partnership with Atkins to assess the contamination type and concentrations prior to remediation of the materials. Thirty eight characterisation samples analysed contained a total of twenty five compounds / potential contaminants that had not been previously identified.

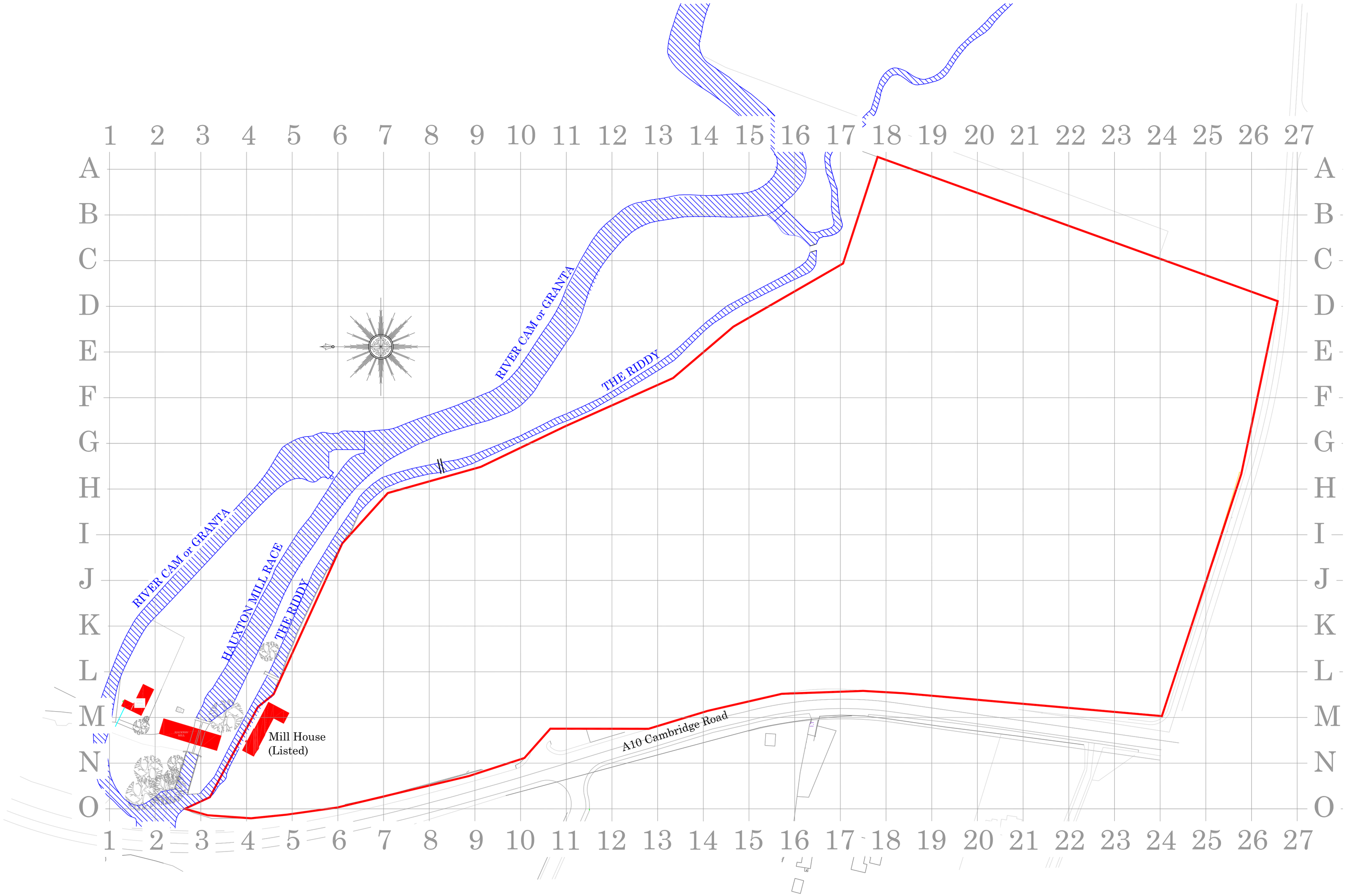
A summary table of the soil characterisation testing is presented in Appendix I, the previously unidentified compounds are listed here, with comments regarding the origin and likely usage on site.

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

Appendix A

Drawings

A1



Legend

- Buildings to Remain
- Water Course
- Site Boundary

Drawing Base : Ref
LW/HAUX-002/2006

Rev.	Description	Revised By	Date
	FIRST ISSUE		21 April 2008

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Site Address:
Bayer Site
Hauxton
Cambridge

Rev:

Title: Blank Site Plan with Grid

Client: Harrow Estates

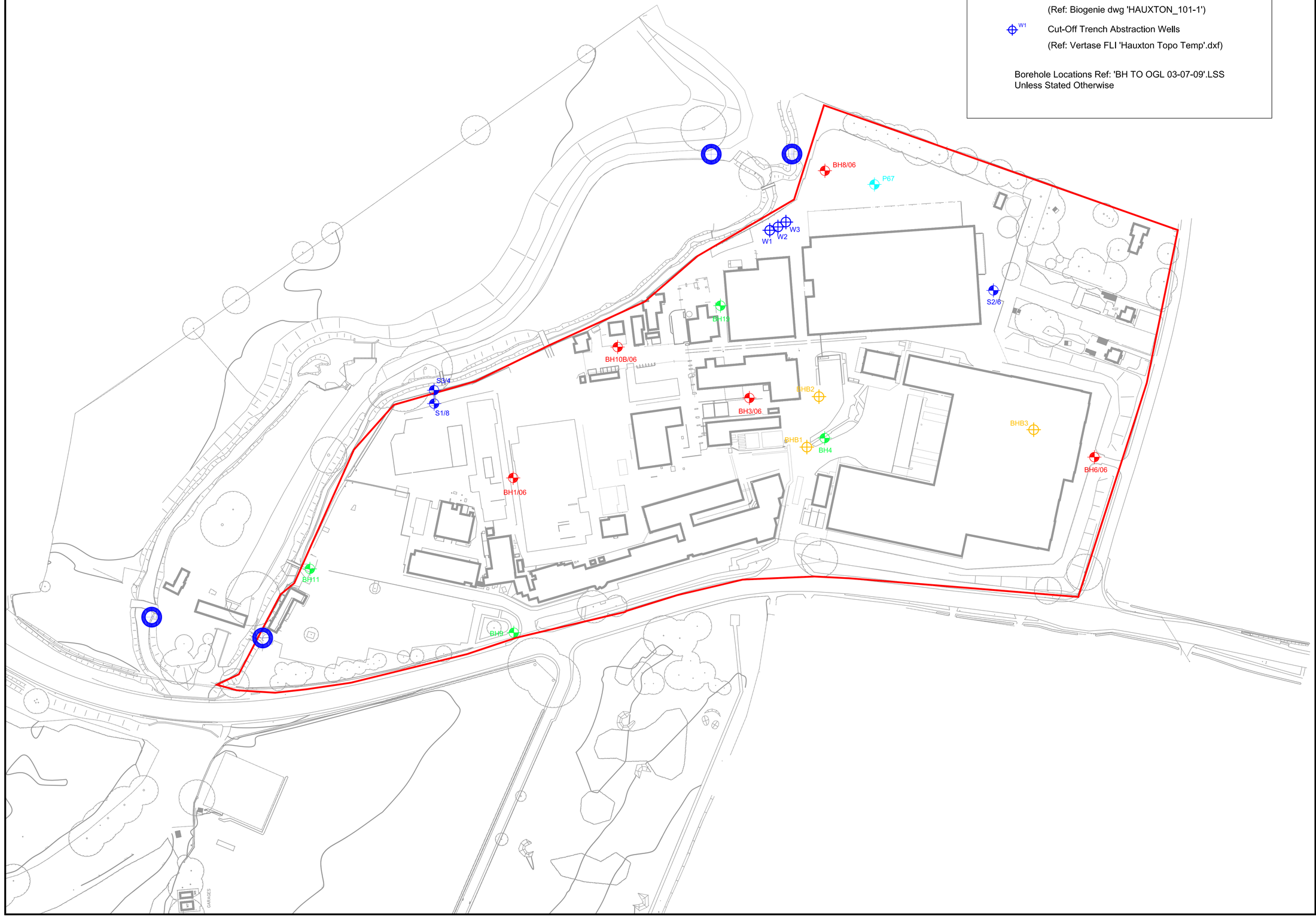
Drawn: JWH	Checked: MA	Approved: MA
Dwg: D907_07	Contract: 907BRI	Scale: 1:1000

A1

Legend

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

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



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

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Site Address:
Bayer Site
Hauxton
Cambridge

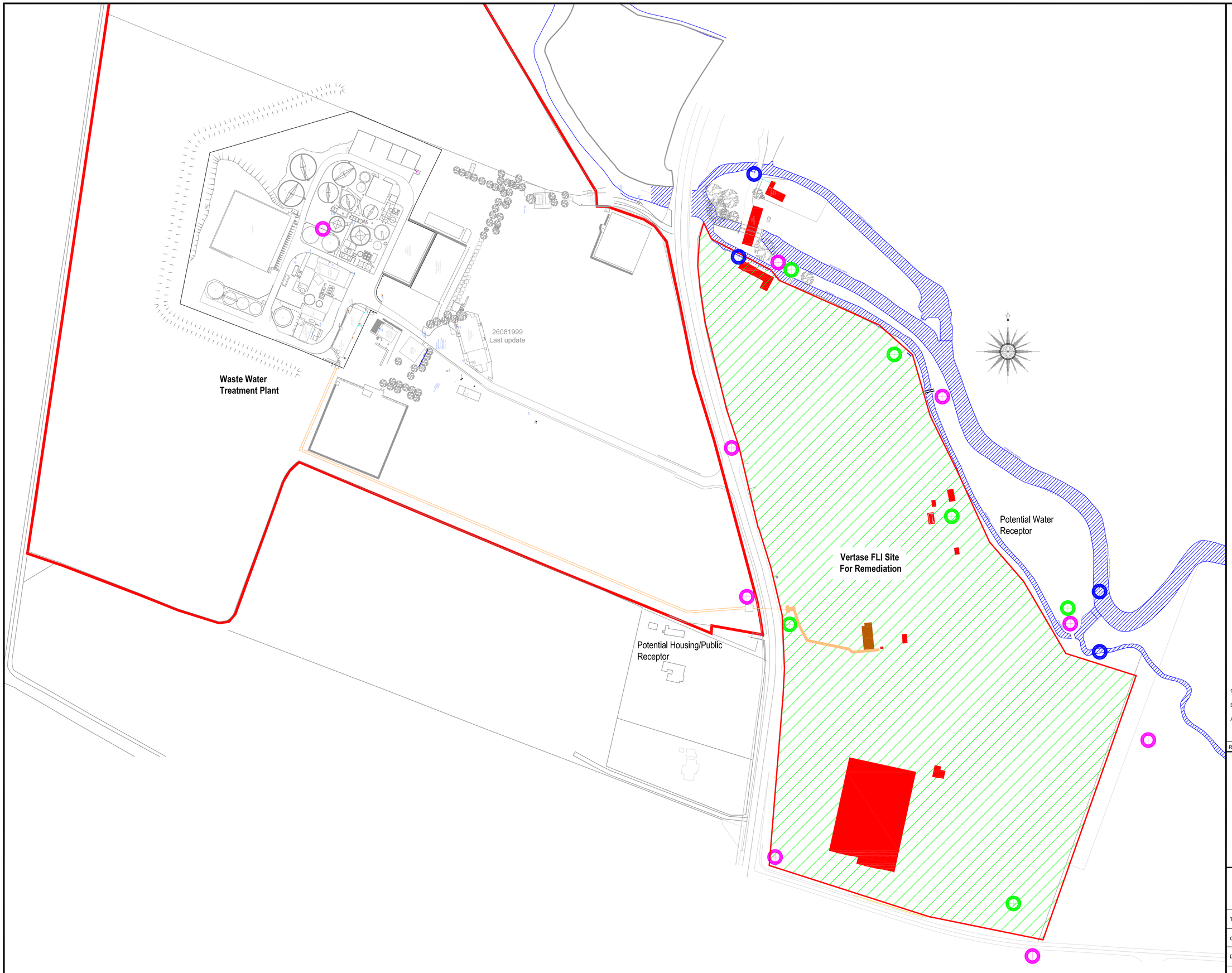
Rev: E

Title: Retained Boreholes for Monitoring & Reference

Client: Harrow Estates

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

A1



Legend

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

Drawing Base : Ref
LW/HAUX-002/2006

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

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Site Address:
Bayer Site
Hauxton
Cambridge

Rev: C

Title: Environmental Monitoring Plan

Client: Harrow Estates

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

Appendix B

Environmental Monitoring Data

Assessor	Date	Daily Activity	Boundary	Start Time	Finish Time	Detectability (Yes or No)	Intensity (1 to 9)	Quality (Description)	Hedonic Tone (-3 to+3)	Location Sensitivity (1 to 5)	Odour Source (1 to 5)	PID (ppm)	TSP	PM10	Average (dBa)	Present (Description)	Materials attracting scavengers	Inspection	Water Level (mAOD)	Complaints	Action Required	Wind Speed (1 to 6)	Wind Direction	Air Temp (C)	Description (Rain, Sun)	Cloud Cover (0 to 8)	Ground Conditions (Wet, dry)	General Notes
O Davies	1/8/2011	bed turning	N	10:45	10:47	y	3	vegetation	1	2	1	0	117.3	107.9	60	no	no	clear	18			4	SSE	25.3	overcast	7	dry	
O Davies	1/8/2011	bed turning	NE	10:48	10:51	n				2		0	130.2	39.7	61	no	no	clear											
O Davies	1/8/2011	bed turning	NE1	10:53	10:55							0	19	53.2	63			clear											
O Davies	1/8/2011	bed turning	E	10:57	10:59	n				1		0	13.6	31.8	64	no	no	clear	26										
O Davies	1/8/2011	bed turning	SE	11:01	11:03	n				3		0			53	no	no												
O Davies	1/8/2011	bed turning	S	11:05	11:07	n				3		0	48.9	21.1	63	no	no												
O Davies	1/8/2011	bed turning	SW	11:09	11:11	n				4		0			66	no	no												
O Davies	1/8/2011	bed turning	W	11:13	11:15	y	3	odour control	1	4	5	0	339.9	66.9	69	no	no												
O Davies	1/8/2011	bed turning	NW	11:17	11:19	n				3		0			71	no	no												
O Davies	1/8/2011	bed turning	N	16:43	16:45	y	2	vegetation	1	2	1	0	38.9	102.2	61	no	no	clear	18			11.6	SE	30.6	sun/cloud	3	dry	
O Davies	1/8/2011	bed turning	NE	16:47	16:49	n				2		0	416.1	18	59	no	no	clear											
O Davies	1/8/2011	bed turning	NE1	16:51	16:53							0	154	35.5				clear											
O Davies	1/8/2011	bed turning	E	16:55	16:57	n				2		0	65.2	50.3	68	no	no	clear	26										
O Davies	1/8/2011	bed turning	SE	16:59	17:01	n				3		0			72	no	no												
O Davies	1/8/2011	bed turning	S	17:03	17:05	n				3		0	294.2	23.1	62	no	no												
O Davies	1/8/2011	bed turning	SW	17:07	17:09	y	3	creosote odour	-1	4	5	0			71	no	no												
O Davies	1/8/2011	bed turning	W	17:11	17:13	y	5	chemical odour and odour control	-1	4	5	0	395.1	168	63	no	no												
O Davies	1/8/2011	bed turning	NW	17:15	17:17	n				2		0			78	no	no												
O Davies	2/8/2011	bed turning	N	9:12	9:14	y	2	wet vegetation	1	2	3	0	248	103.9	59	no	no	clear	18			6.9	SE	18.8	cloudy	7	wet	
O Davies	2/8/2011	bed turning	NE	9:16	9:18	y	3	wet vegetation	1	2	1	0	162.6	178.3	61	no	no	clear											
O Davies	2/8/2011	bed turning	NE1	9:20	9:22							0	178.4	102.8				clear											
O Davies	2/8/2011	bed turning	E	9:24	9:26	y	3	wet vegetation	1	2	1	0	275.6	131.6	62	no	no	clear	26										
O Davies	2/8/2011	bed turning	SE	9:28	9:30	y	4	wet veg and odour control	1	3	3	0			67	no	no												
O Davies	2/8/2011	bed turning	S	9:32	9:34	y	3	wet vegetation	1	3	3	0	130.7	100.9	63	no	no												
O Davies	2/8/2011	bed turning	SW	9:36	9:38	y	2	odour control	1	4	5	0			61	no	no												
O Davies	2/8/2011	bed turning	W	9:40	9:42	y	3	odour control	1	4	5	0	142.1	140.1	78	no	no												
O Davies	2/8/2011	bed turning	NW	9:44	9:46	y	2	sewage odour	-1	2	5	0			76	no	no												
O Scott	2/8/2011	bed turning	N	17:25	17:27	y	2	vegetation	1	2	1	0	20.7	17.1		no	no	clear	20	0	0	0.6	south	27.8	cloudy	7	dry	
O Scott	2/8/2011	bed turning	NE	17:29	17:31	y	2	vegetation	1	2	1	0	37.8	7.5		no	no	clear		0	0								
O Scott	2/8/2011	bed turning	NE1	17:33	17:35							0	271.1	14.5				clear		0	0								
O Scott	2/8/2011	bed turning	E	17:37	17:39	y	2	vegetation	1	2	1	0	662	63.3		no	no	clear	18	0	0								
O Scott	2/8/2011	bed turning	SE	17:41	17:43	y	2	vegetation	1	3	1	0				no	no			0	0								
O Scott	2/8/2011	bed turning	S	17:45	17:47	y	2	vegetation	1	3	1	0	91.4	4.3		no	no			0	0								
O Scott	2/8/2011	bed turning	SW	17:49	17:51	y	2	odour control	1	4	4	0				no	no			0	0								
O Scott	2/8/2011	bed turning	W	17:53	17:55	y	3	odour control	1	4	4	0	25.9	24.8		no	no			0	0								
O Scott	2/8/2011	bed turning	NW	17:57	17:59	y	2	odour control	0	2	4	0				no	no			0	0								
O Davies	3/8/2011	bed turning	N	11:03	11:05	n				2		0	17.8	14.2	54	no	no	clear	18			4.8	sw	31.9	sunny	1	dry	
O Davies	3/8/2011	bed turning	NE	11:07	11:09	n				2		0	271.4	282.4	52	no	no	clear											
O Davies	3/8/2011	bed turning	NE1	11:11	11:13							0	171.9	58.6				clear											
O Davies	3/8/2011	bed turning	E	11:15	11:17	y	2	mushroom compost	-1	2	5	0	331.6	191.6	54	no	no	clear	26										
O Davies	3/8/2011	bed turning	SE	11:19	11:21	n				3		0			48	no	no												
O Davies	3/8/2011	bed turning	S	11:23	11:25	y	2	vegetation	1	3	1	0	55.5	75.2	63	no	no												
O Davies	3/8/2011	bed turning	SW	11:27	11:29	n				4		0			75	no	no												
O Davies	3/8/2011	bed turning	W	11:31	11:33	y	3	odour control	1	4	5	0	221.8	50.5	79	no	no												
O Davies	3/8/2011	bed turning	NW	11:35	11:37	n				2		0			76	no	no												
O Davies	3/8/2011	bed turning	N	15:58	16:00	y	3	vegetation	1	2	1	0	8.2	11.4	60	no	no	clear	18			4.4	W	28.8	sunny	2	dry	
O Davies	3/8/2011	bed turning	NE	16:01	16:06	y	3	vegetation	1	2	1	0	314.2	86.6	60	no	no	clear											
O Davies	3/8/2011	bed turning	NE1	16:08	16:13							0	79.7	100.1				clear											
O Davies	3/8/2011	bed turning	E	16:14	16:19	y	3	odour control and vegetation	1	2	3	0	394.6	177.1	68	no	no	clear	26										
O Davies	3/8/2011	bed turning	SE	16:20	16:25	n				3		0			61	no	no												
O Davies	3/8/2011	bed turning	S	16:27	16:32	n				3		0	47.8	13	64	no	no												
O Davies	3/8/2011	bed turning	SW	16:34	0:69	y	2	odour control and cair exhaust	0	4	5	0			64	no	no												
O Davies	3/8/2011	bed turning	W	16:40	16:45	y	3	odour control	0	4	5	0	68.5	72.2	75	no	no												
O Davies	3/8/2011	bed turning	NW	16:46	16:51	n				2		0			70	no	no												
O Davies	4/8/2011	concrete crushing/moving beds	N	10:11	10:16	y	3	wet veg	1	2	1	0			61	no	no	clear	18			8.5	S	17	raining	8	wet	illustmate not taken due to rain
O Davies	4/8/2011	concrete crushing/moving beds	NE	10:17	10:22	n				2		0			59	no	no	clear											
O Davies	4/8/2011	concrete crushing/moving beds	NE1	10:24	10:29							0						clear											
O Davies	4/8/2011	concrete crushing/moving beds	E	10:31	10:36	y	3	wet veg	1	2	1	0			62	no	no	clear	27										
O Davies	4/8/2011	concrete crushing/moving beds	SE	10:37	10:42	y	3	wet veg & odour control	1	3	3	0			65	no	no												
O Davies	4/8/2011	concrete crushing/moving beds	S	10:44	10:49	n				3		0			63	no	no												
O Davies	4/8/2011	concrete crushing/moving beds	SW	10:50	10:55	n				4		0			71	no	no												
O Davies	4/8/2011	concrete crushing/moving beds	W	10:56	11:01	y	3	odour control	1	4	5	0			75	no	no												
O Davies	4/8/2011	concrete crushing/moving beds	NW	11:03	11:08	n				4		0			78	no	no												
O Scott	4/8/2011	None due to H&S meeting with drivers	N	17:15	17:20	y	1	veg	1	2	1	0			60.8	no	no	clear	0.2	0	0	8.2	sw	31	rain	8	wet	no dust monitor or PID due to rain
O Scott	4/8/2011	None due to H&S meeting with drivers	NE	17:21	17:26	y	1	veg	1	2	1	0			62.2	no	no	clear		0	0								
O Scott	4/8/2011	None due to H&S meeting with drivers	NE1	17:27	17:32							0						clear		0	0								
O Scott	4/8/2011	None due to H&S meeting with drivers	E	17:34	17:39	y	1	vegetation	1	2	1	0			51	no	no	clear	0.26	0	0								
O Scott	4/8/2011	None due to H&S meeting with drivers	SE	17:40	17:45	y	1	vegetation	1	3	2	0			61	no	no			0	0								
O Scott	4/8/2011	None due to H&S meeting with drivers	S	17:46	17:51	y	2	road traffic	-1	3	1	0			72	no	no			0	0								
O Scott	4/8/2011	None due to H&S meeting with drivers	SW	17:52	17:57	y	2	road traffic	-1	4	2	0			75	no	no			0	0								
O Scott	4/8/2011	None due to H&S meeting with drivers	W	17:58	18:03	y	2	traffic & odour control	-1	4	2	0			85	no	no			0	0								
O Scott	4/8/2011	None due to H&S meeting with drivers	NW	18:04	18:09	y	2	traffic & odour control	-1	2	2	0			75	no	no			0	0								
O Scott	5/8/2011	bed turning and excavating near perimiter fence	N	8:26	8:29	y	1	veg (ivy)	1	2	1	0	78.1	43.7	62	no	no	clear	0.2	0	sw	21.7	dry and cloudy	8	wet	
O Scott	5/8/2011	bed turning and excavating near perimiter fence	NE	8:26	8:31	y	1	water	1	2	1	0	102.1	49.9	66.8	no	no	clear		0	0								
O Scott	5/8/2011	bed turning and excavating near perimiter fence	NE1	8:32	8:37							0	34.3	35.1				clear		0	0								
O Scott	5/8/2011	bed turning and excavating near perimiter fence	E	8:38	8:44	y	1	odour control	0	2	3	0	61.7	57.4	75	no	no	clear	0.25	0	0								
O Scott	5/8/2011	bed turning and excavating near perimiter fence	SE	8:45	8:50	y	1	odour control	0	3	3	0			72	no	no			0	0								
O Scott	5/8/2011	bed turning and excavating near perimiter fence	S	8:51	8:57	y	1	veg (trees)	0	3	3	0	48.7	43.1	60	no	no			0	0								
O Scott	5/8/2011	bed turning and excavating near perimiter fence	SW	8:58	9:03	y	1	traffic fumes	0	4	1	0			58	no	no			0	0								
O Scott	5/8/2011	bed turning and excavating near perimiter fence	W	9:04	9:09	y	1	odour control	0	4	2	0	88.4	48.6	68	no	no			0	0								
O Scott	5/8/2011	bed turning and excavating near perimiter fence	NW	9:11	9:16	y	1	veg	0	2	3	0			61	no	no			0	0								
O Scott	5/8/2011	bed turning and excavating near perimiter fence	N	14:06	14:11	y	1	vegetation	1	2	1	0	29.7	8.1	57	no	no	clear	0.2	0	south	29.6	sun	2	dry	
O Scott	5/8/2011	bed turning and excavating near perimiter fence	NE	14:11	14:16	y	1	veg & water	1	2	1	0	214	54.4	64	no	no	clear		0	0								
O Scott	5/8/2011	bed turning and excavating near perimiter fence	NE1	14:17	14:22							0	911.7	72.7				clear		0	0								
O Scott	5/8/2011	bed turning and excavating near perimiter fence	E	14:23	14:28	y	1	veg & water	1	2	1	0	446	97	68	no	no	clear	0.26	0	0								
O Scott	5/8/2011	bed turning and excavating near perimiter fence	SE	14:29	14:34	y	2	veg & site	-1	3	3	0			61	no	no			0	0								
O Scott	5/8/2011	bed turning and excavating near perimiter fence	S	14:35	14:40	y	1	veg	1	3	1	0	13.7	7.7	63	no	no			0	0								
O Scott	5/8/2011	bed turning and excavating near perimiter fence	SW	14:42	14:47	y	1	traffic	0	4	1	0			63	some	no			0	0								
O Scott	5/8/2011	bed turning and excavating near perimiter fence	W	14:48	14:53	y	1	traffic	0	4	1	0	10.4	11.4	76	some	no			0	0								
O Scott	5/8/2011	bed turning and excavating near perimiter fence	NW	14:55	15:00	y	3	veg	-2	2	1	0			70	some	no			0	0								
O Scott	8/8/2011	bed turning and moving of bed 112a	N	8:16	8:24	y	1	veg	0	2	1	0	67	41	53	no	no	clear	0.18	0	0	0	sw	13.8	dry & bright	6	dry	
O Scott	8/8/2011	bed turning and moving of bed 112a	NE	8:25	8:30	y				2		0	29	56	65	yes (glove)	no	clear		0	0								
O Scott	8/8/2011	bed turning and moving of bed 112a	NE1	8:32	8:37							0	48	67				clear		0	0								
O Scott	8/8/2011	bed turning and moving of bed 112a	E	8:38	8:43	y	1	odour control	0	2	2	0	32.4	44.5	64	no	no	clear	0.26	0	0								
O Scott	8/8/2011	bed turning and moving of bed 112a	SE	8:44	8:49	y	1	slightly dusty	1	3	2	0			68	no	no			0	0								
O Scott	8/8/2011	bed turning and moving of bed 112a	S	8:51	8:56	n				3		0	110.8	47.4	66	no	no			0	0								
O Scott	8/8/2011	bed turning and moving of bed 112a	SW	8:57	9:02	y	1	exhaust fumes from traffic	-1	4	1	0			61	no	no			0	0								
O Scott	8/8/2011	bed turning and moving of bed 112a	W	9:03	9:08	y	1	odour control	0	4	3	0	72.8	11.7	74	some	no			0	0								
O Scott	8/8/2011	bed turning and moving of bed 112a	NW	9:09	9:14	n				2		0			60	some	no			0	0								
O Scott	8/8/2011	bed turning and moving of bed 112a	N	15:05	15:10	n				2		0	64.1	10.3	73	no	no	clear	0.18	0	0	13.1	E	20.5	dry	8	dry	Metal panels of perimiter fence at SE location beginning to lean towards public path, will inform site manager or steum
O Scott	8/8/2011	bed turning and moving of bed 112a	NE	15:11	15:16	y	1	odour control and dust	0	2	2	0	37.5	50.5	68	no	no	clear		0	0								
O Scott	8/8/2011	bed turning and moving of bed 112a	NE1	15:17	15:22							0	165	82				clear		0	0								
O Scott	8/8/2011	bed turning and moving of bed 112a	E	15:23	15:28	y	2	veg and odour control	0	2	2	0	28.8	34.7	70	no	no	clear	0.26	0	0								
O Scott	8/8/2011	bed turning and moving of bed 112a	SE	15:29	15:34	y	1	veg and poss dust	0	3	2	0			73	no	no			yes	some							lady (anon) complained that dust was blowing in her eyes, site manager informed	
O Scott	8/8/2011	bed turning and moving of bed 112a	S	15:35	15:40	n				3		0	30.2	6.05	78	no	no			0	0								
O Scott	8/8/2011	bed turning and moving of bed 112a	SW	15:41	15:46	n				4		0			75	no	no			0	0								
O Scott	8/8/2011	bed turning and moving of bed 112a	W	15:47	15:52	y	1	exhaust fumes	1	4	1	0	24.9	8	75	some	no			0	0								
O Scott	8/8/2011	bed turning and moving of bed 112a	NW	15:53	15:58	n				4		0			80	some	no			0	0								
O Scott	9/8/2011	bed turning	N	8:06	8:11	y	2	veg and water	0	2	3	0	96.3	83.9	60	no	no	clear	0.18	0	0	6.1	NW	16.1	sunny and dry	2	dry	
O Scott	9/8/2011	bed turning	NE	8:12	8:17	y	2	dust and odour control	-1	2	3	0	41.3	84.2	64	no	no	clear		0	0								
O Scott	9/8/2011	bed turning	NE1	8:18	8:23							0	202	126.5				clear		0	0								
O Scott	9/8/2011	bed turning	E	8:24	8:29	y	2	dust and odour control	-1	2	3	0	132.7	103.3	65	no	no	clear	0.26	0	0								
O Scott	9/8/2011	bed turning	SE	8:30	8:35	y	2	dust and odour control	-1	3	3	0			67	no	no			0	0								
O Scott	9/8/2011	bed turning	S	8:37	8:42	n				3		0	40.9	61	66	no	no			0	0								
O Scott	9/8/2011	bed turning	SW	8:43	8:48	n				4		0			73	no	no			0	0								
O Scott	9/8/2011	bed turning	W	8:49	8:54	y	1	traffic	-1	4	1	0	103	33.5	72	some	no			0	0								
O Scott	9/8/2011	bed turning	NW	8:55	9:00	y	1	traffic	0	2	1	0			78	some	no			0	0								
O Scott	10/8/2011	excavating in grids/bed turning/concrete crushing	N	13:00	13:05	y	1	odour control	0	2	3	0	17.6	18.2	66	no	no	clear	0.18	0	0				sunny and dry	3 to 4	dry	
O Scott	10/8/2011	excavating in grids/bed turning/concrete crushing	NE	13:06	13:11	y	1	veg	0	2	1	0	28.6	65.4	65	no	no	clear		0	0								
O Scott	10/8/2011	excavating in grids/bed turning/concrete crushing	NE1	13:12	13:17							0	211.1	38.1				clear		0	0								
O Scott	10/8/2011	excavating in grids/bed turning/concrete crushing	E	13:18	13:23	y	2	odour control	0	2	3	0	126.8	41.7	68	no	no	clear	0.26	0	0								
O Scott	10/8/2011	excavating in grids/bed turning/concrete crushing	SE	13:24	13:29	y	2	odour control and some dust	-1	3	4	0			69	no	no			0	0								
O Scott	10/8/2011	excavating in grids/bed turning/concrete crushing	S	13:30	13:35	n				3		0	32.7	11.7	75	no	no			0	0								
O Scott	10/8/2011	excavating in grids/bed turning/concrete crushing	SW	13:37	13:42	n				4		0			75	no	no			0	0								
O Scott	10/8/2011	excavating in grids/bed turning/concrete crushing	W	13:43	13:48	y	2	odour control	0	4	4	0	36.3	10.7	74	some	no			0	0								
O Scott	10/8/2011	excavating in grids/bed turning/concrete crushing	NW	13:49	13:54	n				2		0			75	some	no			0	0								
O Scott	10/8/2011	excavating in grids/bed turning/concrete crushing	N	17:15	17:20	y	1	odour control	0	2	3	0.1	96.1	14.5	64	no	no	clear	2			7.8	wsw	25.5	sunny	7	dry	
O Scott	10/8/2011	excavating in grids/bed turning/concrete crushing	NE	17:21	17:26	y	1	veg	0	2	1	0	87	76	63	no	no	clear											
O Scott	10/8/2011	excavating in grids/bed turning/concrete crushing	NE1	17:27	17:32							0	107.2	38.6				clear											
O Scott	10/8/2011	excavating in grids/bed turning/concrete crushing	E	17:33	17:38	n				2		0	84.5	21.2	66	no	no	clear	2.6										
O Scott	10/8/2011	excavating in grids/bed turning/concrete crushing	SE	17:39	17:44	y	5	odour control and dust	-1	3	5	0			73	no	no												
O Scott	10/8/2011	excavating in grids/bed turning/concrete crushing	S	17:45	17:50	y	3	veg	1	3	1	0	17.2	15	60	no	no												
O Scott	10/8/2011	excavating in grids/bed turning/concrete crushing	SW	17:51	17:56	n				4		0			72	no	no												
O Scott	10/8/2011	excavating in grids/bed turning/concrete crushing	W	17:57	18:02	n				4		0	20.7	12.8	77	no	no												
O Scott	10/8/2011	excavating in grids/bed turning/concrete crushing	NW	18:03	18:08	n				2		0			74	no	no												
O Scott	11/8/2011	excavating in grids/bed turning/concrete crushing	N	8:00	8:05	y				2		Sway	59.2	31	64	no	no	clear	0.18										
O Scott	11/8/2011	excavating in grids/bed turning/concrete crushing	NE	8:06	8:11	y	1	odour control	0	2	3	0	176.8	87.6	64	no	no	clear											
O Scott	11/8/2011	excavating in grids/bed turning/concrete crushing	NE1	8:12	8:17							0	64.9	46.5				clear											
O Scott	11/8/2011	excavating in grids/bed turning/concrete crushing	E	8:18	8:23	y	1	odour control and possible dust	0	2	3	0	73.3	30.2	68	no	no	clear	0.26										
O Scott	11/8/2011	excavating in grids/bed turning/concrete crushing	SE	8:24	8:29	y	2	odour control and possible dust	-1	3	3	0			70	no	no												
O Scott	11/8/2011	excavating in grids/bed turning/concrete crushing	S	8:30	8:35	n				3		0			68	no	no												
O Scott	11/8/2011	excavating in grids/bed turning/concrete crushing	SW	8:36	8:41	n				4		0			75	no	no												
O Scott	11/8/2011	excavating in grids/bed turning/concrete crushing	W	8:42	8:47	y	2	odour control and traffic	-1	4	3	0			75	some	no												
O Scott	11/8/2011	excavating in grids/bed turning/concrete crushing	NW	8:48	8:53	n				4		0			75	some	no												
O Scott	11/8/2011	excavating in grids/bed turning/concrete crushing	W	17:15	17:20	y	1	veg	0	2	1	0	7.2	5.5	64.8	no	no	clear	0.18	0	sw	6.3	wsw	20.5	rain,cloudy	8	wet	

D Scott	11/8/2011	excavating in grids/bed turning/concrete crushing	NE	17.21	17.26	y	1	veg & water	0	2	1	0	18.1	24.5	63.8	no	no	clear													
D Scott	11/8/2011	excavating in grids/bed turning/concrete crushing	NE1	17.27	17.32	y												clear														
D Scott	11/8/2011	excavating in grids/bed turning/concrete crushing	E	17.33	17.38	y	1	veg odour control	0	2	0	0	10.2	3.7	67	no	no	clear	0.26													
D Scott	11/8/2011	excavating in grids/bed turning/concrete crushing	SE	17.39	17.44	y	2	vehicle fumes	-2	3	0	0			70	no	no															
D Scott	11/8/2011	excavating in grids/bed turning/concrete crushing	S	17.45	17.50	y	1	odour control	0	3	3	0	9	11.1	71	no	no															
D Scott	11/8/2011	excavating in grids/bed turning/concrete crushing	SW	17.51	17.56	n				4		0			72	no	no															
D Scott	11/8/2011	excavating in grids/bed turning/concrete crushing	W	17.57	18.02	n				4		0	210.1	16.7	78	some	no															
D Scott	11/8/2011	excavating in grids/bed turning/concrete crushing	NW	18.03	18.08	y	1	traffic	-1	2	1	0			76	some	no															
D Scott	12/8/2011	excavating in grids/bed turning/concrete crushing	N	9.45	9.50	y	1	veg	0	2	1	0	260.8	66.7	62	no	no	clear	0.18			0	w	17	cloudy dry	8	dry	no odours at church					
D Scott	12/8/2011	excavating in grids/bed turning/concrete crushing	NE	9.51	9.56	y	1	odour control	0	2	3	0.2	69.9	103.4	65	no	no	clear														
D Scott	12/8/2011	excavating in grids/bed turning/concrete crushing	NE1	9.57	10.02	n							51.8	46.7				clear														
D Scott	12/8/2011	excavating in grids/bed turning/concrete crushing	E	10.03	10.08	n				2		0	52.9	43.6	67	no	no	clear	0.26													
D Scott	12/8/2011	excavating in grids/bed turning/concrete crushing	SE	10.10	10.15	y	1	odour control	0	3	1	0			80	no	no															
D Scott	12/8/2011	excavating in grids/bed turning/concrete crushing	S	10.16	10.21	y				3		0	59	142.1	67	no	no															
D Scott	12/8/2011	excavating in grids/bed turning/concrete crushing	SW	10.22	10.27	y	3	odour control	-1	4	3	0.3			66	no	no															
D Scott	12/8/2011	excavating in grids/bed turning/concrete crushing	W	10.28	10.33	y	2	odour control	0	4	3	0.2	126	72.2	65	some	no															
D Scott	12/8/2011	excavating in grids/bed turning/concrete crushing	NW	10.34	10.39	n				2		0.2			63	some	no															
D Scott	15/8/2011	excavating in grids/bed turning/concrete crushing	N	8.15	8.20	y	1	vegetation	1	2	1	0	41.3	21.6	61	no	no	clear	0.18			0	sw	21.1	sunny dry	0	dry	no odour at church					
D Scott	15/8/2011	excavating in grids/bed turning/concrete crushing	NE	8.21	8.26	y	2	veg, water and manure	0	2	1	0	75.5	112	65.2	no	no	clear														
D Scott	15/8/2011	excavating in grids/bed turning/concrete crushing	NE1	8.27	8.32	n							81.1	50.1				clear														
D Scott	15/8/2011	excavating in grids/bed turning/concrete crushing	E	8.33	8.38	y	1	veg and manure	0	2	1	0	60.3	85.2	65	no	no	clear	0.26													
D Scott	15/8/2011	excavating in grids/bed turning/concrete crushing	SE	8.39	8.44	y	2	veg and manure	-1	3	1	0			66.5	no	no															
D Scott	15/8/2011	excavating in grids/bed turning/concrete crushing	S	8.45	8.50	n				3		0	32.7	37.8	70	no	no															
D Scott	15/8/2011	excavating in grids/bed turning/concrete crushing	SW	8.52	8.57	y	3	manure	-2	4	1	0			73	no	no															
D Scott	15/8/2011	excavating in grids/bed turning/concrete crushing	W	8.58	9.03	y	2	manure	0	4	1	0	286.1	81.1	77	some	no															
D Scott	15/8/2011	excavating in grids/bed turning/concrete crushing	NW	9.04	9.09	y	2	manure	0	2	1	0				some	no															
D Scott	16/8/2011	excavating in grids/bed turning/concrete crushing	N	8.00	8.05	y	2	odour control	0	2	2	0	76.5	70.5	63	no	no	clear	0.18			4.2	SW	17.1	dry cloudy	7	dry	no odour at church. Local resident informed DS that pig manure has been spread on local farmers fields creating manure smell which some locals have complained about					
D Scott	16/8/2011	excavating in grids/bed turning/concrete crushing	NE	8.06	8.11	n				2		0	47.1	47.4	64	no	no	clear														
D Scott	16/8/2011	excavating in grids/bed turning/concrete crushing	NE1	8.12	8.17	n							75.1	39.9				clear														
D Scott	16/8/2011	excavating in grids/bed turning/concrete crushing	E	8.18	8.23	y	1	odour control dust	0	2	2	0	62.1	27.7	62	no	no	clear	0.26													
D Scott	16/8/2011	excavating in grids/bed turning/concrete crushing	SE	8.24	8.29	n				3		0			66	no	no															
D Scott	16/8/2011	excavating in grids/bed turning/concrete crushing	S	8.30	8.35	n				3		0	41.2	48.1	75	no	no															
D Scott	16/8/2011	excavating in grids/bed turning/concrete crushing	SW	8.36	8.41	n				4		0			75	no	no															
D Scott	16/8/2011	excavating in grids/bed turning/concrete crushing	W	8.42	8.47	y	2	odour control	0	4	1	0	63.2	90.5	73	some	no															
D Scott	16/8/2011	excavating in grids/bed turning/concrete crushing	NW	8.48	8.53	y	1	odour control	0	2	1	0			75	some	no															
D Scott	17/8/2011	excavating in grids/bed turning/concrete crushing	N	7.50	7.55	n				2		0	39	59.9	63.3	no	no	clear	0.18			0	sw	15	dry cloudy	6	dry	no odour at church					
D Scott	17/8/2011	excavating in grids/bed turning/concrete crushing	NE	7.56	8.01	y	5	vegetation	-1	2	1	0	47.7	61.2	68	no	no	clear														
D Scott	17/8/2011	excavating in grids/bed turning/concrete crushing	NE1	8.02	8.07	n							51.7	56.8				clear														
D Scott	17/8/2011	excavating in grids/bed turning/concrete crushing	E	8.08	8.13	n				2		0	31.7	74.4	62.3	no	no	clear	0.26													
D Scott	17/8/2011	excavating in grids/bed turning/concrete crushing	SE	8.14	8.19	y	1	odour control	0	3	1	0			63.9	no	no															
D Scott	17/8/2011	excavating in grids/bed turning/concrete crushing	S	8.20	8.25	n				3		0	44.4	18.9	63.5	no	no															
D Scott	17/8/2011	excavating in grids/bed turning/concrete crushing	SW	8.26	8.31	y	2	odour control and dust	-1	4	2	0			68.2	no	no															
D Scott	17/8/2011	excavating in grids/bed turning/concrete crushing	W	8.32	8.37	n				4		0	75	43.9	75	some	no															
D Scott	17/8/2011	excavating in grids/bed turning/concrete crushing	NW	8.38	8.43	y	1	vegetation	0	2	1	0			75	some	no															
D Scott	17/8/2011	excavating in grids/bed turning/concrete crushing	N	16.35	16.40	n				2		0	51.2	36.3	70	no	no	clear	0.18													no odour at church
D Scott	17/8/2011	excavating in grids/bed turning/concrete crushing	NE	16.41	16.46	n				2		0	354	47.4	67	no	no	clear														
D Scott	17/8/2011	excavating in grids/bed turning/concrete crushing	NE1	16.47	16.52	n							74.4	66.1				clear														
D Scott	17/8/2011	excavating in grids/bed turning/concrete crushing	E	16.53	16.58	y	1	veg	0	2	1	0	28.7	82.3	75	no	no	clear	0.26													
D Scott	17/8/2011	excavating in grids/bed turning/concrete crushing	SE	17.00	17.05	y	1	odour	0	3	1	0			72	no	no															
D Scott	17/8/2011	excavating in grids/bed turning/concrete crushing	S	17.07	17.12	y	2	dusty odour	0	3	1	0	15	61.7	75	no	no															
D Scott	17/8/2011	excavating in grids/bed turning/concrete crushing	SW	17.13	17.18	y	2	dusty odour	0	4	1	0			70	no	no															
D Scott	17/8/2011	excavating in grids/bed turning/concrete crushing	W	17.19	17.24	y	2	dusty odour	0	4	1	0	257	67.5	68	no	no															
D Scott	17/8/2011	excavating in grids/bed turning/concrete crushing	NW	17.25	17.30	y	2	dusty odour	0	2	1	0			77	no	no															
D Scott	18/8/2011	excavating in grids/bed turning/concrete crushing	N	8.15	8.20	y	1	odour control	0	2	1	0	74.4	16.5	65	no	no	clear	0.18				ENE									no odour at church
D Scott	18/8/2011	excavating in grids/bed turning/concrete crushing	NE	8.21	8.26	n				2		0	58.6	21.1	68.2	no	no	clear														
D Scott	18/8/2011	excavating in grids/bed turning/concrete crushing	NE1	8.27	8.32	n							46.5	44.6				clear														
D Scott	18/8/2011	excavating in grids/bed turning/concrete crushing	E	8.33	8.38	y	2		0	2	1	0	54.8	81.7	63	no	no	clear	0.26													
D Scott	18/8/2011	excavating in grids/bed turning/concrete crushing	SE	8.39	8.44	y	1	odour control	0	3	1	0			70.8	no	no															
D Scott	18/8/2011	excavating in grids/bed turning/concrete crushing	S	8.45	8.50	n				3		0	34.7	13.6	73	no	no															
D Scott	18/8/2011	excavating in grids/bed turning/concrete crushing	SW	8.52	8.57	n				4		0			73	no	no															
D Scott	18/8/2011	excavating in grids/bed turning/concrete crushing	W	8.58	9.03	y	1	odour control and dust	0	4	1	0	78.4	92.2	75	no	no															
D Scott	18/8/2011	excavating in grids/bed turning/concrete crushing	NW	9.04	9.09	n				2		0			76	some	no															
D Scott	19/8/2011	excavating in grids/bed turning/concrete crushing	N	8.30	8.35	y	1	veg	0	2	0	0	82.4	63.3	63	no	no	clear	0.18			0	SW	17.4	sunny dry	1	dry	no odour at church					
D Scott	19/8/2011	excavating in grids/bed turning/concrete crushing	NE	8.36	8.41	n				2		0	127.3	114.4	66	no	no	clear														
D Scott	19/8/2011	excavating in grids/bed turning/concrete crushing	NE1	8.42	8.47	n							159.5	77.1				clear														
D Scott	19/8/2011	excavating in grids/bed turning/concrete crushing	E	8.48	8.53	y	2	odour control	0	2	0	0	79	87.4	65	no	no	clear	0.26													
D Scott	19/8/2011	excavating in grids/bed turning/concrete crushing	SE	8.54	8.59	y	1	dust odour	0	3	1	0			69.2	no	no															
D Scott	19/8/2011	excavating in grids/bed turning/concrete crushing	S	9.00	9.05	n				3		0	73.3	80	85.5	no	no															
D Scott	19/8/2011	excavating in grids/bed turning/concrete crushing	SW	9.06	9.11	n				4		0			65	no	no															
D Scott	19/8/2011	excavating in grids/bed turning/concrete crushing	W	9.12	9.17	n				4		0	107.6	44.1	73	some	no															
D Scott	19/8/2011	excavating in grids/bed turning/concrete crushing	NW	9.18	9.23	n				2		0			76	some	no															
D Scott	22/8/2011	excavating in grids/bed turning/concrete crushing	N	8.20	8.25	n				2		0	63	75.9	66.5	no	no	clear	0.18			0	nnw	19.6	sunny dry	1	dry	no odour at church					
D Scott	22/8/2011	excavating in grids/bed turning/concrete crushing	NE	8.26	8.31	n				2		0	440	80.1	67	no	no	clear														
D Scott	22/8/2011	excavating in grids/bed turning/concrete crushing	NE1	8.32	8.37	n							51.3	73.9				clear														
D Scott	22/8/2011	excavating in grids/bed turning/concrete crushing	E	8.38	8.43	n				2		0	92.2	88.1	66	no	no	clear	0.26													
D Scott	22/8/2011	excavating in grids/bed turning/concrete crushing	SE	8.44	8.49	n				3		0			67	no	no															
D Scott	22/8/2011	excavating in grids/bed turning/concrete crushing	S	8.50	8.55	n				3		0	80.4	74.9	65	no	no															
D Scott	22/8/2011	excavating in grids/bed turning/concrete crushing	SW	8.56	9.01	y	1	traffic	0	4	1	0			73	no	no															
D Scott	22/8/2011	excavating in grids/bed turning/concrete crushing	W	9.02	9.07	y	1	traffic	0	4	1	0	82.6	110.7	65	some	no															
D Scott	22/8/2011	excavating in grids/bed turning/concrete crushing	NW	9.08	9.13	n				2		0			60	some	no															
D Scott	22/8/2011	excavating in grids/bed turning/concrete crushing	N	17.15	17.20	n				2		0	10.3	38.6	66	no	no	clear	0.18			0	NEE	25.8	sunny dry	5	dry	no odour at church					
D Scott	22/8/2011	excavating in grids/bed turning/concrete crushing	NE	17.21	17.26	y	1	vegetation	0	2	1	0	17.2	15	69	no	no	clear														
D Scott	22/8/2011	excavating in grids/bed turning/concrete crushing	NE1	17.27	17.32	n							10.6	13.7				clear														
D Scott	22/8/2011	excavating in grids/bed turning/concrete crushing	E	17.33	17.38	n				2		0	25.4	12.4	62.8	no	no	clear	0.26													
D Scott	22/8/2011	excavating in grids/bed turning/concrete crushing	SE	17.39	17.44	n				3		0			70	no	no															
D Scott	22/8/2011	excavating in grids/bed turning/concrete crushing	S	17.45	17.50	n				3		0	15.6	12.3	70	no	no															
D Scott	22/8/2011	excavating in grids/bed turning/concrete crushing	SW	17.51	17.57	y	3	dusty odour	0	4	1	0			72	no	no															
D Scott	22/8/2011	excavating in grids/bed turning/concrete crushing	W	17.58	18.03	y	2	dusty odour	0	4	1	0	24.3	13.1	75	some	no															
D Scott	22/8/2011	excavating in grids/bed turning/concrete crushing	NW	18.04	18.09	n				2		0			76	some	no															
D Scott	23/8/2011	excavating in grids/bed turning/concrete crushing	N	8.15	8.20	n				2		0	135.9	53.5	66	no	no	clear	0.18			0	nne	17.8	dry cloudy	8	damp	no odour at church					
D Scott	23/8/2011	excavating in grids/bed turning/concrete crushing	NE	8.21	8.26	n				2		0	74.6	56.2	67	no	no	clear														
D Scott	23/8/2011	excavating in grids/bed turning/concrete crushing	NE1	8.27	8.32	n							58.9	58.1				clear														
D Scott	23/8/2011	excavating in grids/bed turning/concrete crushing	E	8.33	8.38	n				2		0	26.7	53.8	62	no	no	clear	0.26													
D Scott	23/8/2011	excavating in grids/bed turning/concrete crushing	SE	8.39	8.44	n				3		0			70	no	no															
D Scott	23/8/2011	excavating in grids/bed turning/concrete crushing	S	8.45	8.50	n				3		0	158.3	88.3	64	no	no															
D Scott	23/8/2011	excavating in grids/bed turning/concrete crushing	SW	8.52	8.57	y	1	dusty odour	0	4	2	0			70	no	no															
D Scott	23/8/2011	excavating in grids/bed turning/concrete crushing	W	8.58	9.03	n				4		0	129	44.1	71	some	no															
D Scott	23/8/2011	excavating in grids/bed turning/concrete crushing	NW	9.04	9.09	y	1	odour control	0	2	0	0			75	some	no															
D Scott	23/8/2011	excavating in grids/bed turning/concrete crushing	N	17.15	17.20	n				2		0	87.1	31.1	63	no	no	clear	0.18			0	nnw	19	dry cloudy	8	wet	no odour at church					
D Scott	23/8/2011	excavating in grids/bed turning/concrete crushing	NE	17.21	17.26	n				2		0	122.8	48.7	65.5	no	no	clear														
D Scott	23/8/2011	excavating in grids/bed turning/concrete crushing	NE1	17.27	17.32	n							79.5	46.7				clear														
D Scott	23/8/2011	excavating in grids/bed turning/concrete crushing	E	17.33	17.38	y	1	vegetation	1	2	1	0	21.3	34.4	73	no	no	clear	0.26													
D Scott	23/8/2011	excavating in grids/bed turning/concrete crushing	SE	17.40	17.45	n				3		0			62	no	no															
D Scott	23/8/2011	excavating in grids/bed turning/concrete crushing	S	17.46	17.51	y	2	dusty odour	-2	3	0	0	74.4	58.3	63	no	no															
D Scott	23/8/2011	excavating in grids/bed turning/concrete crushing	SW	17.52	17.57	y	1	dusty odour	-1	4	0	0			71	no	no															
D Scott	23/8/2011	excavating in grids/bed turning/concrete crushing	W	17.58	18.03	n				4		0	18.9	120.4	76	some	no															
D Scott	23/8/2011	excavating in grids/bed turning/concrete crushing	NW	18.04	18.09	n				2		0			76	some	no															
D Scott	24/8/2011	excavating in grids/bed turning/concrete crushing	N	8.30	8.35	y	2	odour control	0	2	0	0	226.7	205.6	66	no	no	clear	0.18			0	sow	16.9	cloudy dry	7	damp	no odour at church, noise at East due to breaking out concrete near to boundary					
D Scott	24/8/2011	excavating in grids/bed turning/concrete crushing	NE	8.36	8.41	y	1	vegetation	0	2	1	0	214	208	64	no	no	clear														
D Scott	24/8/2011	excavating in grids/bed turning/concrete crushing	NE1	8.42	8.47	n							285.9	313.4				clear														
D Scott	24/8/2011	excavating in grids/bed turning/concrete crushing	E	8.48	8.53	n				2		0	243.5	321.3	60	no	no	clear	0.26													
D Scott	24/8/2011	excavating in grids/bed turning/concrete crushing	SE	8.54	8.59	n				3		0			63	no	no															
D Scott	24/8/2011	excavating in grids/bed turning/concrete crushing	S	9.02	9.07	n				3		0	206.4	177.5	62	no	no															
D Scott	24/8/2011	excavating in grids/bed turning/concrete crushing	SW	9.08	9.13	n				4		0			72	no	no															
D Scott	24/8/2011	excavating in grids/bed turning/concrete crushing	W	9.14	9.19	y	2	odour control	0	4	0	0	236	168	72	some	no															
D Scott	24/8/2011	excavating in grids/bed turning/concrete crushing	NW	9.21	9.26	y	1	odour control	0	2	0	0			74	some	no															
D Scott	24/8/2011	excavating in grids/bed turning/concrete crushing	N	17.00	17.05	n				2		0	23.3	56.1	64	no	no	clear	0.18			5.6	ssw	24.2	sunny dry	1	dry	no odour at church					
D Scott	24/8/2011	excavating in grids/bed turning/concrete crushing	NE	17.06	17.11	y	2	odour control and dusty odour	0	2	0	0	260	167	68	no	no	clear														
D Scott	24/8/2011	excavating in grids/bed turning/concrete crushing	NE1	17.12	17.17	n							197	71				clear														
D Scott	24/8/2011	excavating in grids/bed turning/concrete crushing	E	17.18	17.23	y	2	dusty odour	0	2	0	0	8.6	41	63	no	no	clear	0.26													
D Scott	24/8/2011	excavating in grids/bed turning/concrete crushing	SE	17.24	17.29	n				3		0			62	no	no															
D Scott	24/8/2011	excavating in grids/bed turning/concrete crushing	S	17.32	17.37	n				3		0	16.8	3.2	70	no	no															
D Scott	24/8/2011	excavating in grids/bed turning/concrete crushing	SW	17.38	17.43	n				4		0			72	no	no															
D Scott	24/8/2011	excavating in grids/bed turning/concrete crushing	W	17.44	17.49	y	1	traffic fumes	0	4	1	0	238	39.4	80	some	no															
D Scott	24/8/2011	excavating in grids/bed turning/concrete crushing	NW	17.51	17.56	y	1	traffic fumes	0	2	1	0			71	some	no															
D Scott	25/8/2011	excavating in grids/bed turning/concrete crushing/offsite disposal of soils	N	7.15	7.20	y	1	odour control	0	2	0	0	276.8	74.2	62	no	no	clear	0.18			8	SSE	17.1	cloudy dry	7	dry	no odour at church					
D Scott	25/8/2011	excavating in grids/bed turning/concrete crushing/offsite disposal of soils	NE	7.21	7.26	n				2		0	88.4	66	64	no	no	clear														
D Scott	25/8/2011	excavating in grids/bed turning/concrete crushing/offsite disposal of soils	NE1	7.27	7.32	n							85.8	42.1				clear														
D Scott	25/8/2011	excavating in grids/bed turning/concrete crushing/offsite disposal of soils	E	7.33	7.38	n				2		0	41.7	47.8	60	no	no	clear	0.26													
D Scott	25/8/2011	excavating in grids/bed turning/concrete crushing/offsite disposal of soils	SE	7.40	7.45	n				3		0			64	no	no															
D Scott	25/8/2011	excavating in grids/bed turning/concrete crushing/offsite disposal of soils	S	7.46	7.51	n				3		0	112.9	34.9	62	no	no															
D Scott	25/8/2011	excavating in grids/bed turning/concrete crushing/offsite disposal of soils	SW	7.52	7.57	n				4		0			71	no	no															
D Scott	25/8/2011	excavating in grids/bed turning/concrete crushing/offsite disposal of soils	W	7.58	8.03	y	3	dusty odour	-1	4	3	0	84.6	35	72	no	no															
D Scott	25/8/2011	excavating in grids/bed turning/concrete crushing/offsite disposal of soils	NW	8.05	8.10	y	1	dusty odour and traffic	0	2	0	0			75	some	no															
M Allsobrook	25/8/2011	excavating in grids K5/bed turning	N	18.09	18.14	y	2	chlorinated phenol	0	2	0	0	27.3	18.6	73.5	no	no	clear	1.9			4	S	22	sun dry	4	wet						
M Allsobrook	25/8/2011	excavating in grids K5/bed turning	NE	18.03	18.07	n				2		0	20.8	14.8	64.8	no	no	clear														
M Allsobrook	25/8/2011	excavating in grids K5/bed turning	NE1	17.56	18.01	n							40.2	32.1				clear														
M Allsobrook	25/8/2011	excavating in grids K5/bed turning	E	17.50	17.53	y	2	soil and odour control	0	2	0	0	112.8	52.1	49.5	no	no	clear	2.7													
M Allsobrook	25/8/2011	excavating in grids K5/bed turning	SE	17.43	17.48	n				3		0			46.2	no	no	clear														
M Allsobrook	25/8/2011	excavating in grids K5/bed turning	S	17.35	17.40	n				3		0	41.3	23.1	57.1	no	no															
M Allsobrook	25/8/2011	excavating in grids K5/bed turning	SW	17.28	17.33	y	2	traffic fumes	-1	4	1	0			77.6	no	no															
M Allsobrook	25/8/2011	excavating in grids K5/bed turning	W	17.22	17.27	y	3	traffic fumes	0	4	3	0	42.9	30.7	78.2	no	no															
M Allsobrook	25/8/2011	excavating in grids K5/bed turning	NW	17.15	17.20	n				2		0			77.8	no	no															
M Allsobrook	26/8/2011	off site disposal	N			n									61.4	no	no	clear	1.95			0	N	18	rain	8	wet						
M Allsobrook	26/8/2011	off site disposal	NE			y	2	wet veg	1	2	1	0			50.8	no	no	clear														
M Allsobrook	26/8/2011	off site disposal	NE1			n												clear														
M Allsobrook	26/8/2011	off site disposal	E			y	3	wet veg	0	2	3	0			49.6	no	no	clear	2.75													
M Allsobrook	26/8/2011	off site disposal	SE			y	1	vegetation	1	3	1	0			52.3	no	no															

M Allsobrook	26/8/2011	off site disposal	S			y	3	bbq smell, charcoal	1	3	1	0			49.2	no	no														
M Allsobrook	26/8/2011	off site disposal	SW			y	2	traffic	-1	4	1	0			72.1	no	no														
M Allsobrook	26/8/2011	off site disposal	W			n				4		0			80.1	no	no														
M Allsobrook	26/8/2011	off site disposal	NW			y	2	wet veg	1	2	1	0			72.4	no	no														
I Stephenson	30/8/2011	excavating in grids/bed turning	N	9.40	9.45	n				2		0				no	no	clear	19					1.7	WNW	15.4	cloudy	8		no odour at church
I Stephenson	30/8/2011	excavating in grids/bed turning	NE	9.35	9.40	n				2		0				no	no	clear													
I Stephenson	30/8/2011	excavating in grids/bed turning	NE1	9.30	9.35													clear													
I Stephenson	30/8/2011	excavating in grids/bed turning	E	9.25	9.30	y	3	vehicle fumes	1	2	0	0				no	no	clear	17												
I Stephenson	30/8/2011	excavating in grids/bed turning	SE	9.20	9.25	y	5	car fumes/wet concrete	1	3	0	0				no	no														
I Stephenson	30/8/2011	excavating in grids/bed turning	S	9.15	9.20	n				3		0				no	no														
I Stephenson	30/8/2011	excavating in grids/bed turning	SW	9.10	9.15	n	4	car fumes	0	4	0	0				no	no														
I Stephenson	30/8/2011	excavating in grids/bed turning	W	9.05	9.10	n				4		0				no	no														
I Stephenson	30/8/2011	excavating in grids/bed turning	NW	9.00	9.05	n				2		0				no	no	clear													
D Scott	30/8/2011	excavating in grids/bed turning	N	17.25		n				2		0	21	9.3	66	no	no	clear	0.18	n	n			2	ww	17	cloudy	8	damp	no odour at church
D Scott	30/8/2011	excavating in grids/bed turning	NE			n				2		0	85.3	8	66.5	no	no	clear												
D Scott	30/8/2011	excavating in grids/bed turning	NE1										92.9	60.7				clear												
D Scott	30/8/2011	excavating in grids/bed turning	E			y	1	odour control	0	2	0	0	50.9	23.3	63	no	no	clear	0.26	n	n								
D Scott	30/8/2011	excavating in grids/bed turning	SE			y	3	odour control	0	3	0	0			70	no	no													
D Scott	30/8/2011	excavating in grids/bed turning	S			n				3		0	47.6	18.9	61	no	no													
D Scott	30/8/2011	excavating in grids/bed turning	SW			y	3	odour control	0	4	0	0			81	no	no													
D Scott	30/8/2011	excavating in grids/bed turning	W			n				4		0	47.6	48.1	76	no	no													
D Scott	30/8/2011	excavating in grids/bed turning	NW			n				2		0			78	no	no													
D Scott	31/8/2011	excavating in grids/bed turning	N	8.30		n				2		0	140.9	90.3	64	no	no	clear	0.18	n	n		0	WNW	15.7	dry, cloudy	8	dry	no odours on approach to church, signs of possible digging/sampling baen undertaken at locations frequent along roadside and at locations around site perimiter, possibly animals.
D Scott	31/8/2011	excavating in grids/bed turning	NE			n				2		0	68.8	48.2	67	no	no	clear												
D Scott	31/8/2011	excavating in grids/bed turning	NE1										140	77.3				clear												
D Scott	31/8/2011	excavating in grids/bed turning	E			n				2		0	84.9	46.2	63	no	no	clear	0.26	n	n								
D Scott	31/8/2011	excavating in grids/bed turning	SE			n				3		0			62	no	no													
D Scott	31/8/2011	excavating in grids/bed turning	S			y	3	odour control and dusty odour	-1	3	0	0	245	42.9	63	no	no													
D Scott	31/8/2011	excavating in grids/bed turning	SW			y	2	traffic	-1	4	1	0			75	no	no													
D Scott	31/8/2011	excavating in grids/bed turning	W			y	2	traffic	-1	4	1	0	76.5	76.1	74	no	no													
D Scott	31/8/2011	excavating in grids/bed turning	NW		9.15	n				2		0			76	no	no													
D Scott	31/8/2011	excavating in grids/bed turning	N	17.30		n				2		0	17.3	21	63	no	no	clear	0.16	n	n		0	ENE	20.8	dry, cloudy	8	dry	no odour at church
D Scott	31/8/2011	excavating in grids/bed turning	NE			n				2		0	82.9	16.1	72	no	no	clear												
D Scott	31/8/2011	excavating in grids/bed turning	NE1										9.7	5.3				clear												
D Scott	31/8/2011	excavating in grids/bed turning	E			n				2		0	25	22	63	no	no	clear	0.24	n	n								
D Scott	31/8/2011	excavating in grids/bed turning	SE			y	2	dusty odour	0	3	0	0			70	no	no													
D Scott	31/8/2011	excavating in grids/bed turning	S			n				3		0	7.6	52	65	no	no													
D Scott	31/8/2011	excavating in grids/bed turning	SW			y	2	odour control	-1	4	0	0			68	no	no													
D Scott	31/8/2011	excavating in grids/bed turning	W			y	1	traffic	-1	4	1	0	30.5	74.7	73	no	no													
D Scott	31/8/2011	excavating in grids/bed turning	NW		18.00	y	1	traffic	-1	2	1	0			73	no	no													

Appendix C

Long term Passive VOC Monitoring

gradko environmental
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UKAS TESTING 2187

LABORATORY ANALYSIS REPORT

REPORT NUMBER	**GCMS 4875**
CUSTOMER	**Vertase FLI Ltd**
GRADKO LAB REFERENCE	**GMSF 1237-1247**
DATE SAMPLES RECEIVED	**18.08.11**
DESPATCH REF.NUMBER	**SOR006001**
JOB NUMBER	**907BRI/5302**
BOOKING IN REF.	**E 4320**

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

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

Tube Number	**GRA 05723**
Exposure Time(mins)	**50400**
Sample ID	**WWTW**

Top 10 VOC'S

Compounds	**ng on tube**	**ppb in air***
Benzothiazole	75.09	0.74
Benzamide, N,N-dimethyl-	45.13	0.45
Tetrachloroethylene	21.74	0.22
Trichloroethylene	12.14	0.12
Formamide, N,N-dimethyl-	10.88	0.11
Cyclohexanone	10.76	0.11
Phenol	10.33	0.10
Benzene	8.56	0.08
m/p-Xylene	8.53	0.08
Toluene	7.63	0.08

Tube Number	**GRA 02602**
Exposure Time(mins)	**50400**
Sample ID	**New Road**

Top 10 VOC'S

Compounds	**ng on tube**	**ppb in air***
Toluene	86.09	0.85
Benzamide, N,N-dimethyl-	32.86	0.33
m/p-Xylene	30.13	0.30
Benzothiazole	23.11	0.23

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o-Xylene	17.06	0.17
Ethylbenzene	14.59	0.14
Phenol	12.74	0.13
Benzene	12.44	0.12
Tetrachloroethylene	12.23	0.12
Formamide, N,N-dimethyl-	11.15	0.11

Tube Number **GRA 04295**
Exposure Time(mins) **50400**
Sample ID **Queens Close**

Top 10 VOC'S

Compounds	**ng on tube**	**ppb in air***
m/p-Xylene	97.83	0.97
Ethylbenzene	94.34	0.94
o-Xylene	44.94	0.45
Benzamide, N,N-dimethyl-	36.29	0.36
Benzothiazole	32.87	0.33
Phenol	24.34	0.24
Toluene	19.15	0.19
Heptane, 2,2,4,6,6-pentamethyl-	16.02	0.16
Tetrachloroethylene	12.24	0.12
Benzene	10.82	0.11

Tube Number **GRA 03438**
Exposure Time(mins) **50400**
Sample ID **NW**
Top 10 VOC'S

Compounds	**ng on tube**	**ppb in air***
Tetrachloroethylene	191.04	1.90
Benzene, 1,2,3-trichloro-4-methyl-	65.23	0.65
Trichloroethylene	60.46	0.60
Toluene	51.97	0.52
Benzene, 1,2,4-trichloro-3-methyl-	40.44	0.40
Benzamide, N,N-dimethyl-	33.20	0.33
m/p-Xylene	32.90	0.33
Phenol	32.46	0.32
Benzene, 1,2,4-trichloro-	20.61	0.20
Benzothiazole	19.04	0.19

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LABORATORY ANALYSIS REPORT

Tube Number	**GRA 05623**
Exposure Time(mins)	**50400**
Sample ID	**SE**

Top 10 VOC'S

Compounds	**ng on tube**	**ppb in air***
Tetrachloroethylene	264.17	2.62
Benzene, 1,2,3-trichloro-4-methyl-	126.45	1.25
Trichloroethylene	78.38	0.78
Benzene, 1,2,4-trichloro-3-methyl-	54.81	0.54
Toluene	50.92	0.51
m/p-Xylene	40.23	0.40
Benzene, 1,2,4-trichloro-	33.61	0.33
Benzene, 1,4-dichloro-2-methyl-	31.80	0.32
Phenol	25.97	0.26
Benzothiazole	25.39	0.25

Tube Number	**GRA 06071**
Exposure Time(mins)	**50400**
Sample ID	**W**

Top 10 VOC'S

Compounds	**ng on tube**	**ppb in air***
Tetrachloroethylene	403.42	4.00
Heptadecane	397.71	3.95
Octadecane	318.77	3.16
Heptadecane, 4-methyl-	168.09	1.67
Heptadecane, 3-methyl-	144.01	1.43
Heptadecane, 2-methyl-	142.97	1.42
Hexadecane	113.54	1.13
Nonadecane	112.72	1.12
Benzene, 1,2,3-trichloro-4-methyl-	97.50	0.97
Toluene	45.21	0.45

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LABORATORY ANALYSIS REPORT

Tube Number	**GRA 03924**
Exposure Time(mins)	**50400**
Sample ID	**S**

Top 10 VOC'S

Compounds	**ng on tube**	**ppb in air***
Tetrachloroethylene	125.88	1.25
Benzene, 1,2,4-trichloro-3-methyl-	30.99	0.31
Trichloroethylene	26.65	0.26
Toluene	26.35	0.26
m/p-Xylene	23.63	0.23
Phenol	20.52	0.20
Ethylbenzene	14.96	0.15
Benzene, 1,2,4-trichloro-	13.29	0.13
Benzene, 1,4-dichloro-2-methyl-	13.11	0.13
o-Xylene	12.47	0.12

Tube Number	**GRA 03053**
Exposure Time(mins)	**50400**
Sample ID	**E**

Top 10 VOC'S

Compounds	**ng on tube**	**ppb in air***
Tetrachloroethylene	298.90	2.97
Benzene, 1,2,3-trichloro-4-methyl-	141.89	1.41
Trichloroethylene	113.60	1.13
Benzene, 1,2,4-trichloro-3-methyl-	64.85	0.64
Toluene	54.08	0.54
m/p-Xylene	50.57	0.50
Naphthalene	48.61	0.48
Naphthalene, 1-methyl-	34.13	0.34
Benzene, 1,4-dichloro-2-methyl-	30.68	0.30
Benzene, 1,2,4-trichloro-	28.08	0.28

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LABORATORY ANALYSIS REPORT

Tube Number	**GRA 00146**
Exposure Time(mins)	**50400**
Sample ID	**N**

Top 10 VOC'S

Compounds	**ng on tube**	**ppb in air***
Tetrachloroethylene	161.78	1.60
Benzene, 1,2,3-trichloro-4-methyl-	76.73	0.76
Benzene, 1,2,4-trichloro-3-methyl-	38.75	0.38
Phenol	36.09	0.36
Toluene	32.03	0.32
Trichloroethylene	31.37	0.31
m/p-Xylene	19.16	0.19
Benzamide, N,N-dimethyl-	16.58	0.16
Benzene, 1,2,4-trichloro-	15.62	0.15
Benzene, 1,4-dichloro-2-methyl-	15.09	0.15

Tube Number	**GRA 06118**
Exposure Time(mins)	**50400**
Sample ID	**Church Road**

Top 10 VOC'S

Compounds	**ng on tube**	**ppb in air***
Naphthalene	666.51	6.61
Naphthalene, 1-methyl-	86.71	0.86
m/p-Xylene	50.39	0.50
Phenanthrene	49.12	0.49
Naphthalene, 2-methyl-	47.94	0.48
Acenaphthene	47.01	0.47
Toluene	40.73	0.40
Phenol	37.07	0.37
Fluorene	30.46	0.30
o-Xylene	30.44	0.30

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Tube Number	**GRA 02027**
Exposure Time(mins)	**50400**
Sample ID	**NE**

Top 10 VOC'S

Compounds	**ng on tube**	**ppb in air***
Tetrachloroethylene	507.08	5.03
Toluene	424.91	4.22
Trichloroethylene	93.29	0.93
Benzene, 1,2,3-trichloro-4-methyl-	92.29	0.92
m/p-Xylene	43.08	0.43
Benzene, 1,4-dichloro-	40.96	0.41
Benzene, 1,2,4-trichloro-3-methyl-	36.28	0.36
Bis(2-chloroethyl) ether	35.73	0.35
Naphthalene, 1-methyl-	28.36	0.28
Benzothiazole	26.81	0.27

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

Analysts Name **M.Angelova** **Date of Analysis** **26.08.11**

Date of Report **31.08.11**

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Appendix D

Directional Dust Monitoring

Chemtest
The right chemistry to deliver results

Sticky Pad Data

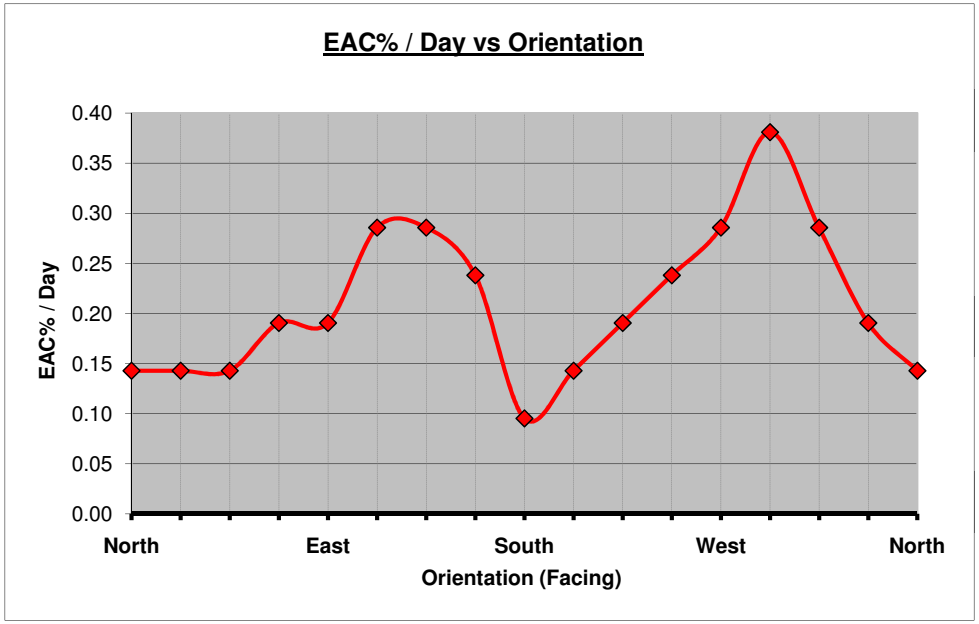
Gauge Number- West offsite Location 907BRI

Sticky Pad Data

Date On 25/07/2011 Date Off 15/08/2011 Days = 21

Clean = 100

X Axis mm	Meter	Angle Deg	Orientation	EAC% / Day
0	97	360	North	0.14
20	96	337		0.19
40	94	314		0.29
60	92	291		0.38
80	94	269	West	0.29
100	95	246		0.24
120	96	223		0.19
140	97	200		0.14
160	98	177	South	0.10
180	95	154		0.24
200	94	131		0.29
220	94	109		0.29
240	96	86	East	0.19
260	96	63		0.19
280	97	40		0.14
300	97	17		0.14
315	97	0	North	0.14



Note: Cells coloured red are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 20mm intervals along the sticky pad.

Chemtest
The right chemistry to deliver results

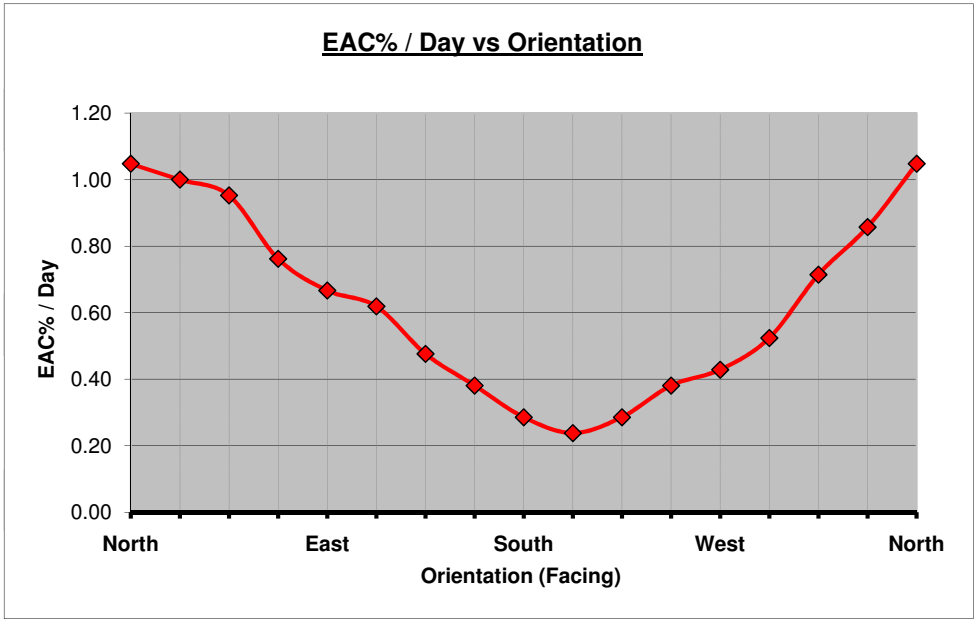
Sticky Pad Data

Gauge Number- North offsite Location 907BRI

Sticky Pad Data

Date On 25/07/2011 Date Off 15/08/2011 Days = 21
Clean = 100

X Axis mm	Meter	Angle Deg	Orientation	EAC% / Day
0	78	360	North	1.05
20	82	337		0.86
40	85	314		0.71
60	89	291		0.52
80	91	269	West	0.43
100	92	246		0.38
120	94	223		0.29
140	95	200		0.24
160	94	177	South	0.29
180	92	154		0.38
200	90	131		0.48
220	87	109		0.62
240	86	86	East	0.67
260	84	63		0.76
280	80	40		0.95
300	79	17		1.00
315	78	0	North	1.05



Note: Cells coloured red are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 20mm intervals along the sticky pad.

Chemtest
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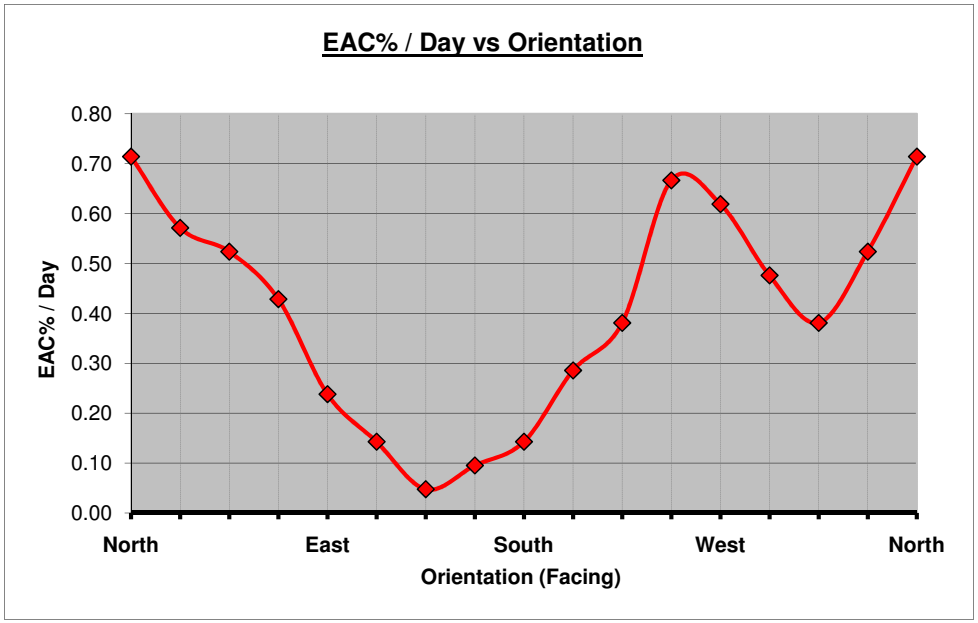
Sticky Pad Data

Gauge Number-North East Offsite Location 907BRI

Sticky Pad Data

Date On 25/07/2011 Date Off 15/08/2011 Days = 21
Clean = 100

X Axis mm	Meter	Angle Deg	Orientation	EAC% / Day
0	85	360	North	0.71
20	89	337		0.52
40	92	314		0.38
60	90	291		0.48
80	87	269	West	0.62
100	86	246		0.67
120	92	223		0.38
140	94	200		0.29
160	97	177	South	0.14
180	98	154		0.10
200	99	131		0.05
220	97	109		0.14
240	95	86	East	0.24
260	91	63		0.43
280	89	40		0.52
300	88	17		0.57
315	85	0	North	0.71



Note: Cells coloured red are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 20mm intervals along the sticky pad.

Chemtest
The right chemistry to deliver results

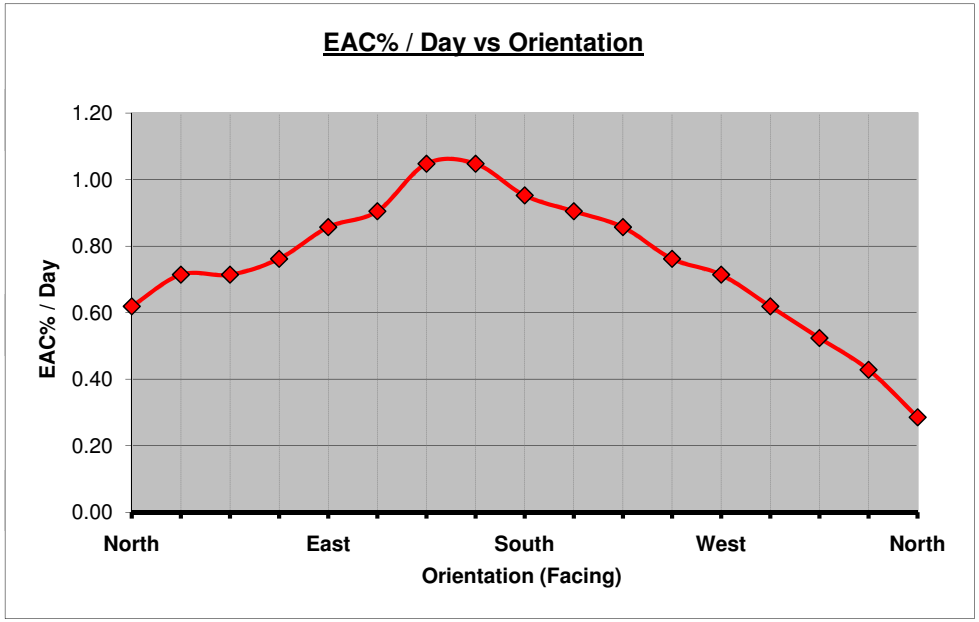
Sticky Pad Data

Gauge Number-South Onsite Location 907BRI

Sticky Pad Data

Date On 25/07/2011 Date Off 15/08/2011 Days = 21
Clean = 100

X Axis mm	Meter	Angle Deg	Orientation	EAC% / Day
0	94	360	North	0.29
20	91	337		0.43
40	89	314		0.52
60	87	291		0.62
80	85	269	West	0.71
100	84	246		0.76
120	82	223		0.86
140	81	200		0.90
160	80	177	South	0.95
180	78	154		1.05
200	78	131		1.05
220	81	109		0.90
240	82	86	East	0.86
260	84	63		0.76
280	85	40		0.71
300	85	17		0.71
315	87	0	North	0.62



Note: Cells coloured red are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 20mm intervals along the sticky pad.

Chemtest
The right chemistry to deliver results

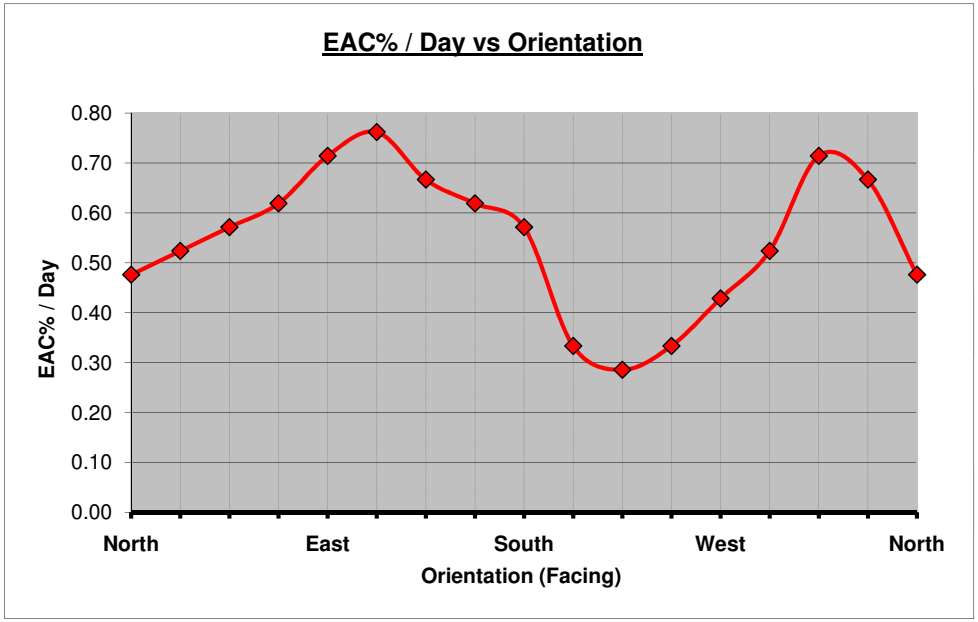
Sticky Pad Data

Gauge Number-North East Onsite Location 907BRI

Sticky Pad Data

Date On 25/07/2011 Date Off 15/08/2011 Days = 21
Clean = 100

X Axis mm	Meter	Angle Deg	Orientation	EAC% / Day
0	90	360	North	0.48
20	86	337		0.67
40	85	314		0.71
60	89	291		0.52
80	91	269	West	0.43
100	93	246		0.33
120	94	223		0.29
140	93	200		0.33
160	88	177	South	0.57
180	87	154		0.62
200	86	131		0.67
220	84	109		0.76
240	85	86	East	0.71
260	87	63		0.62
280	88	40		0.57
300	89	17		0.52
315	90	0	North	0.48



Note: Cells coloured red are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 20mm intervals along the sticky pad.

Chemtest
The right chemistry to deliver results

Sticky Pad Data

Gauge Number-West side Entrance Location 907BRI

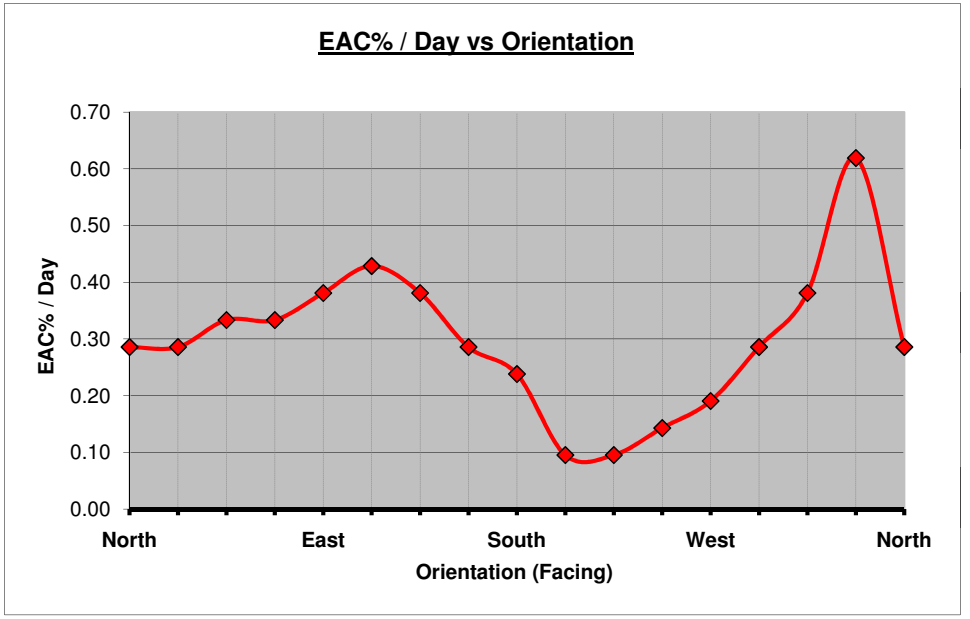
Sticky Pad Data

Date On 25/07/2011 Date Off 15/08/2011 Days = 21

Clean = 100

X Axis mm	Meter	Angle Deg	Orientation	EAC% / Day
0	94	360	North	0.29
20	87	337		0.62
40	92	314		0.38
60	94	291		0.29
80	96	269	West	0.19
100	97	246		0.14
120	98	223		0.10
140	98	200		0.10
160	95	177	South	0.24
180	94	154		0.29
200	92	131		0.38
220	91	109		0.43
240	92	86	East	0.38
260	93	63		0.33
280	93	40		0.33
300	94	17		0.29
315	94	0	North	0.29

+



Note: Cells coloured red are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 20mm intervals along the sticky pad.

Chemtest
The right chemistry to deliver results

Sticky Pad Data

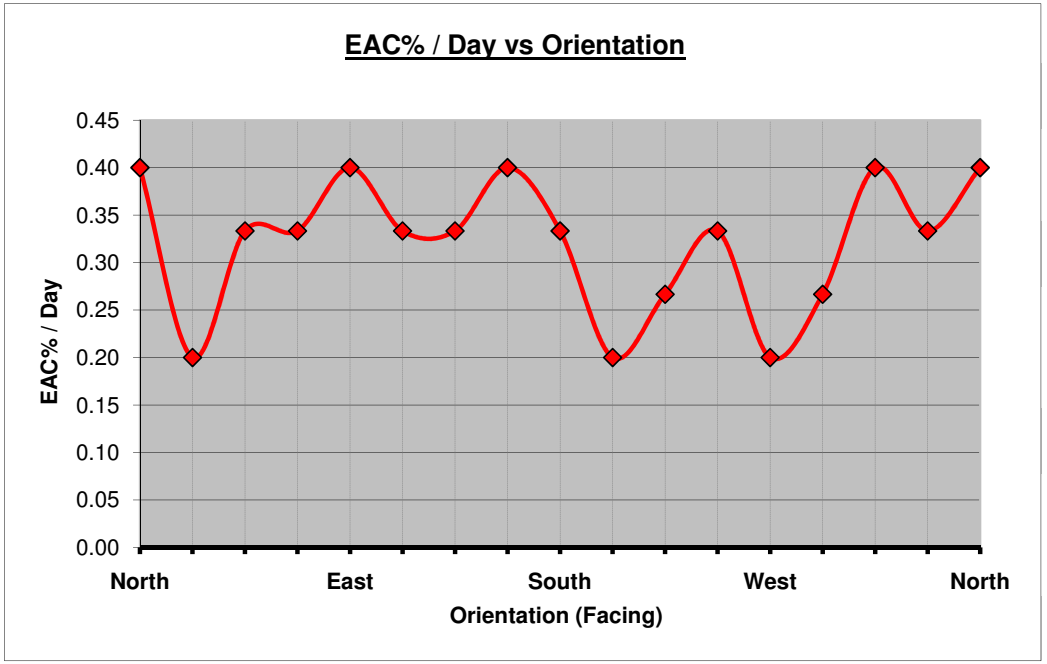
Gauge Number- West Location 907 BRI

Sticky Pad Data

Date On 15/08/2011 Date Off 30/08/2011 Days = 15

Clean = 100

X Axis mm	Meter	Angle Deg	Orientation	EAC% / Day
0	94	360	North	0.40
20	95	337		0.33
40	94	314		0.40
60	96	291		0.27
80	97	269	West	0.20
100	95	246		0.33
120	96	223		0.27
140	97	200		0.20
160	95	177	South	0.33
180	94	154		0.40
200	95	131		0.33
220	95	109		0.33
240	94	86	East	0.40
260	95	63		0.33
280	95	40		0.33
300	97	17		0.20
315	94	0	North	0.40



Note: Cells coloured red are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 20mm intervals along the sticky pad.

Chemtest
The right chemistry to deliver results

Sticky Pad Data

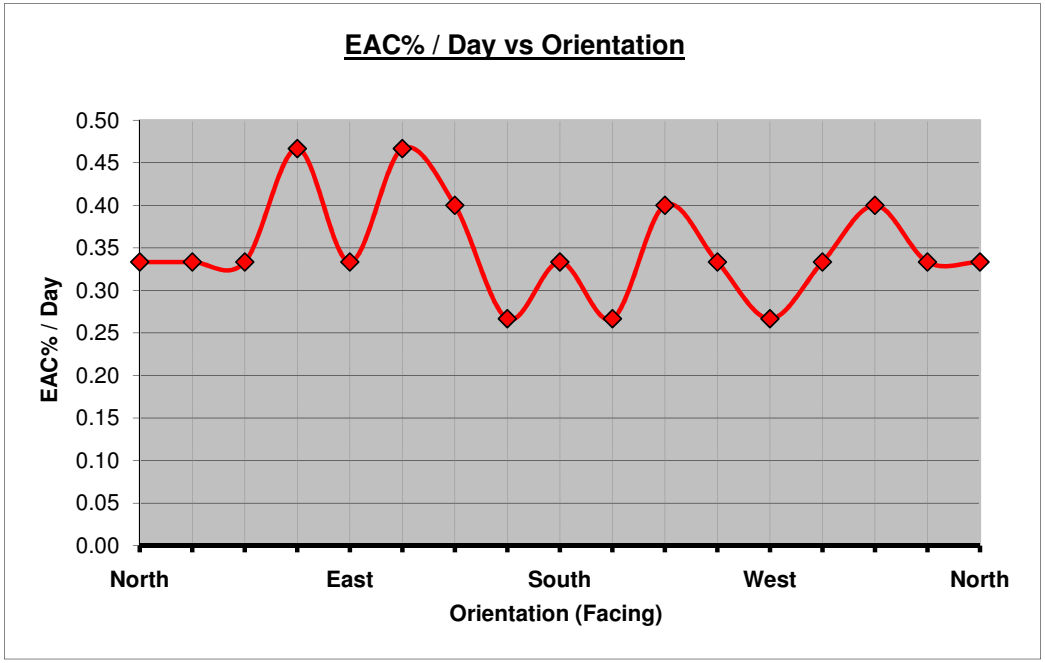
Gauge Number- North Location 907BRI

Sticky Pad Data

Date On 15/08/2011 Date Off 30/08/2011 Days = 15

Clean = 100

X Axis mm	Meter	Angle Deg	Orientation	EAC% / Day
0	95	360	North	0.33
20	95	337		0.33
40	94	314		0.40
60	95	291		0.33
80	96	269	West	0.27
100	95	246		0.33
120	94	223		0.40
140	96	200		0.27
160	95	177	South	0.33
180	96	154		0.27
200	94	131		0.40
220	93	109		0.47
240	95	86	East	0.33
260	93	63		0.47
280	95	40		0.33
300	95	17		0.33
315	95	0	North	0.33



Note: Cells coloured red are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 20mm intervals along the sticky pad.

Chemtest
The right chemistry to deliver results

Sticky Pad Data

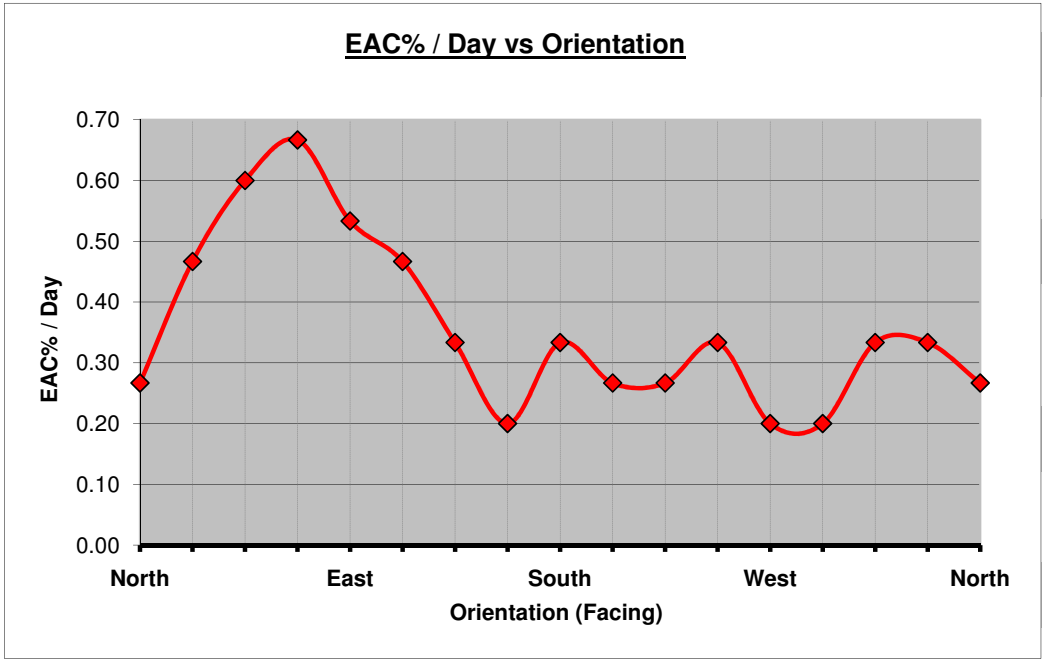
Gauge Number-North East 2 Location 907BRI

Sticky Pad Data

Date On 15/08/2011 Date Off 30/08/2011 Days = 15

Clean = 100

X Axis mm	Meter	Angle Deg	Orientation	EAC% / Day
0	96	360	North	0.27
20	95	337		0.33
40	95	314		0.33
60	97	291		0.20
80	97	269	West	0.20
100	95	246		0.33
120	96	223		0.27
140	96	200		0.27
160	95	177	South	0.33
180	97	154		0.20
200	95	131		0.33
220	93	109		0.47
240	92	86	East	0.53
260	90	63		0.67
280	91	40		0.60
300	93	17		0.47
315	96	0	North	0.27



Note: Cells coloured red are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 20mm intervals along the sticky pad.

Chemtest
The right chemistry to deliver results

Sticky Pad Data

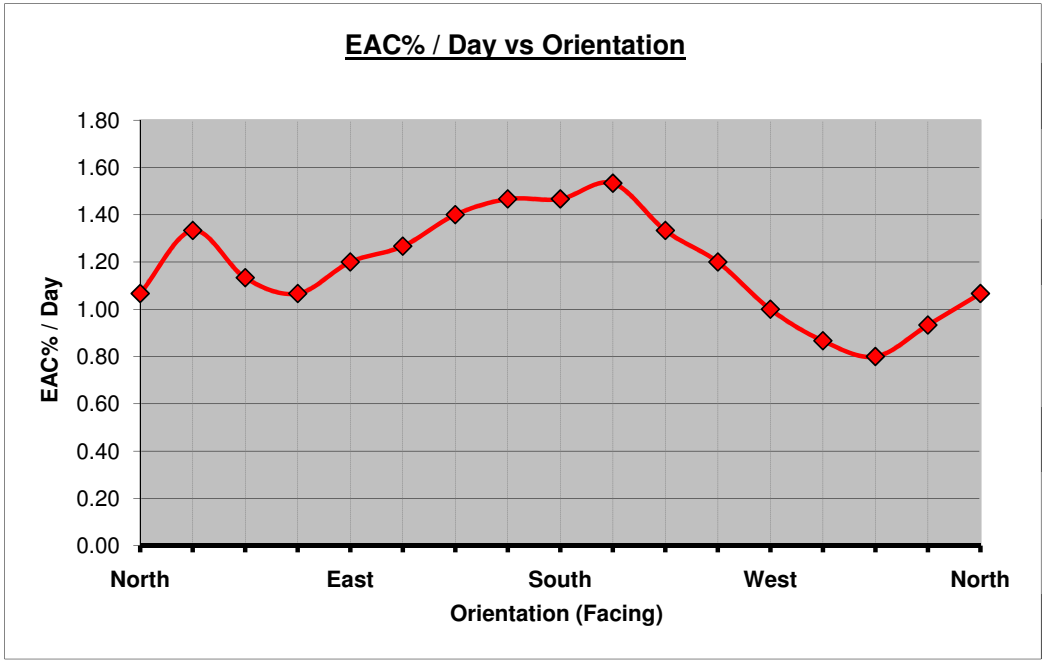
Gauge Number-South Location 907BRI

Sticky Pad Data

Date On 15/08/2011 Date Off 30/08/2011 Days = 15

Clean = 100

X Axis mm	Meter	Angle Deg	Orientation	EAC% / Day
0	84	360	North	1.07
20	86	337		0.93
40	88	314		0.80
60	87	291		0.87
80	85	269	West	1.00
100	82	246		1.20
120	80	223		1.33
140	77	200		1.53
160	78	177	South	1.47
180	78	154		1.47
200	79	131		1.40
220	81	109		1.27
240	82	86	East	1.20
260	84	63		1.07
280	83	40		1.13
300	80	17		1.33
315	84	0	North	1.07



Note: Cells coloured red are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 20mm intervals along the sticky pad.

Chemtest
The right chemistry to deliver results

Sticky Pad Data

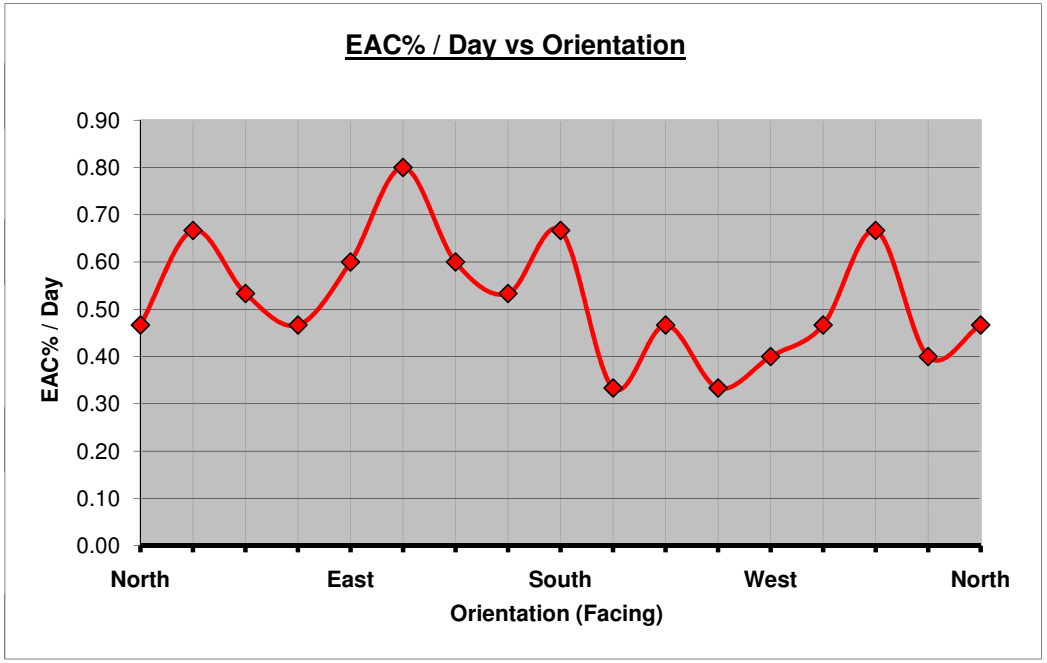
Gauge Number East Location 907BRI

Sticky Pad Data

Date On 15/08/2011 Date Off 30/08/2011 Days = 15

Clean = 100

X Axis mm	Meter	Angle Deg	Orientation	EAC% / Day
0	93	360	North	0.47
20	94	337		0.40
40	90	314		0.67
60	93	291		0.47
80	94	269	West	0.40
100	95	246		0.33
120	93	223		0.47
140	95	200		0.33
160	90	177	South	0.67
180	92	154		0.53
200	91	131		0.60
220	88	109		0.80
240	91	86	East	0.60
260	93	63		0.47
280	92	40		0.53
300	90	17		0.67
315	93	0	North	0.47



Note: Cells coloured red are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 20mm intervals along the sticky pad.

Appendix E
Groundwater Level Data

Date	BH6/06	S3/4	BH4	BH10B/06	BH9	S1/8	BH11*	S2/6	BHB1	W1 (n)	W2	W3 (s)	Riddy 1	Riddy 2	Riddy 3	Riddy 4	V F12	V N3	WS17	P73
1/8/2011	9.775	10.229	Blocked	Covered	10.201	Lost	9.611	Covered	8.930	No Access	No Access	DRY	9.154	9.279	9.511	9.627	Covered	9.533	9.596	9.856
5/8/2011	9.728	10.279	Blocked	Covered	10.196	Lost	9.657	Covered	8.890	No Access	No Access	DRY	9.151	9.283	9.518	9.623	Covered	9.567	9.583	9.873
11/8/2011	9.720	10.340	Blocked	Covered	10.019	Lost	9.663	Covered	8.900	No Access	No Access	DRY	9.159	9.314	9.480	9.619	9.678	9.542	9.566	9.894
12/8/2011	9.750	10.030	Blocked	Covered	10.009	Lost	9.623	Covered	8.900	No Access	No Access	DRY	9.159	9.324	9.510	9.639	9.688	9.492	9.556	9.804
16/8/2011	9.690	No Access	Blocked	Covered	10.019	Lost	9.613	Covered	8.940	No Access	No Access	DRY	9.159	No Access	9.520	9.619	9.668	9.552	9.546	9.884
19/8/2011	9.550	No Access	Blocked	Covered	10.139	Lost	9.663	Covered	8.920	No Access	No Access	DRY	9.179	9.324	9.520	9.624	9.668	9.552	9.546	10.034
22/8/2011	9.400	No Access	Blocked	Covered	10.039	Lost	9.613	Covered	8.820	No Access	No Access	DRY	9.179	9.324	9.520	9.629	9.638	9.542	9.536	9.984
24/8/2011	9.360	10.330	Blocked	Covered	10.039	Lost	9.603	Covered	8.795	No Access	No Access	DRY	9.179	9.344	9.540	9.629	9.608	9.542	9.536	9.934

Appendix F
Surface Water Analysis Reports

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

Scientific Analysis Laboratories

Certificate of Analysis

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

Report Number: 245390-1

Date of Report: 10-Aug-2011

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

Customer Contact: The Project Management

Customer Job Reference: 907 BRI
Date Job Received at SAL: 29-Jul-2011
Date Analysis Started: 29-Jul-2011
Date Analysis Completed: 10-Aug-2011

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

UKAS TESTING
1549

Report checked and authorised by :
Amelia McVennon
Project Manager

Issued by :
Amelia McVennon
Project Manager

SAL Reference: 245390
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton Suite

				SAL Reference	**245390 001**	**245390 002**	**245390 003**	**245390 004**	**245390 005**	**245390 006**	**245390 007**
				Customer Sample Reference	**P107**	**P73**	**WS17**	**Cam Up**	**Cam Down**	**Riddy Up**	**Riddy Down**
				Date Sampled	**28-JUL-2011**	**28-JUL-2011**	**28-JUL-2011**	**28-JUL-2011**	**28-JUL-2011**	**28-JUL-2011**	**28-JUL-2011**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**							
Electrical Conductivity	T7	AR	10	µS/cm	**5800**	**2400**	**3200**	**830**	**800**	**820**	**800**
pH	T7	AR			**7.1**	**7.3**	**6.9**	**7.8**	**8.2**	**8.0**	**8.1**

SAL Reference: 245390
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton OP/ON Suite

				SAL Reference	**245390 001**	**245390 002**	**245390 003**	**245390 004**	**245390 005**	**245390 006**	**245390 007**
				Customer Sample Reference	**P107**	**P73**	**WS17**	**Cam Up**	**Cam Down**	**Riddy Up**	**Riddy Down**
				Date Sampled	**28-JUL-2011**	**28-JUL-2011**	**28-JUL-2011**	**28-JUL-2011**	**28-JUL-2011**	**28-JUL-2011**	**28-JUL-2011**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**							
Dimefox	T16	AR	0.1	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethofumesate	T16	AR	0.1	µg/l	**11**	**1.1**	**0.5**	<0.1	<0.1	<0.1	<0.1
Hempa	T16	AR	0.1	µg/l	<0.1	<0.1	**2.0**	<0.1	<0.1	<0.1	<0.1
Schradan	T16	AR	0.1	µg/l	**2.2**	**0.4**	**2.9**	<0.1	<0.1	<0.1	<0.1
Simazine	T16	AR	0.01	µg/l	**6.6**	**0.12**	<0.01	<0.01	<0.01	<0.01	<0.01

SAL Reference: 245390
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton Phenoxy Acid Herbs Suite

				SAL Reference	**245390 001**	**245390 002**	**245390 003**	**245390 004**	**245390 005**	**245390 006**	**245390 007**
				Customer Sample Reference	**P107**	**P73**	**WS17**	**Cam Up**	**Cam Down**	**Riddy Up**	**Riddy Down**
				Date Sampled	**28-JUL-2011**	**28-JUL-2011**	**28-JUL-2011**	**28-JUL-2011**	**28-JUL-2011**	**28-JUL-2011**	**28-JUL-2011**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**							
Dicamba	T16	AR	0.1	µg/l	**0.1**	**0.4**	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorprop	T16	AR	0.1	µg/l	**0.6**	**0.5**	**0.9**	<0.1	<0.1	<0.1	<0.1
Phenoxy Acetic acid herbicide: MCPA	T16	AR	0.1	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mecoprop	T16	AR	0.1	µg/l	**23**	**1.0**	**24**	**2.9**	**1.3**	**1.0**	**0.4**

SAL Reference: 245390
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton SVOC Suite

				SAL Reference	**245390 001**	**245390 002**	**245390 003**	**245390 004**	**245390 005**	**245390 006**	**245390 007**
				Customer Sample Reference	**P107**	**P73**	**WS17**	**Cam Up**	**Cam Down**	**Riddy Up**	**Riddy Down**
				Date Sampled	**28-JUL-2011**	**28-JUL-2011**	**28-JUL-2011**	**28-JUL-2011**	**28-JUL-2011**	**28-JUL-2011**	**28-JUL-2011**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**							
2,4,6-Trichlorophenol	T16	AR	10	µg/l	(9) <100	(9) <100	(9) <100	<10	<10	<10	<10
2-Methyl-4,6-dinitrophenol	T16	AR	10	µg/l	(9) <100	(9) <100	(9) <100	<10	<10	<10	<10
4-Chloro-2-methylphenol	T16	AR	10	µg/l	**530**	**74**	**300**	<10	<10	<10	<10
Bis (2-chloroethyl) ether	T16	AR	10	µg/l	**2100**	**220**	(9) <100	<10	<10	<10	<10
Phenol	T16	AR	10	µg/l	(9) <100	(9) <100	(9) <100	<10	<10	<10	<10

SAL Reference: 245390
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton VOC Suite

	SAL Reference	245390 001	245390 002	245390 003	245390 004	245390 005	245390 006	245390 007
	Customer Sample Reference	P107	P73	WS17	Cam Up	Cam Down	Riddy Up	Riddy Down
	Date Sampled	28-JUL-2011	28-JUL-2011	28-JUL-2011	28-JUL-2011	28-JUL-2011	28-JUL-2011	28-JUL-2011
Determinand	**Method** / **Test Sample** / **LOD** / **Units**							
1,2-Dichlorobenzene	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	T54 AR 1 µg/l	**11**	**2**	<1	<1	<1	<1	<1
Cis-1,2-Dichloroethylene	T54 AR 1 µg/l	**350**	**31**	**27**	<1	<1	<1	<1
Cyclohexanone	T54 AR 10 µg/l	<10	<10	<10	<10	<10	<10	<10
Tetrachloroethene	T54 AR 1 µg/l	<1	<1	**2**	**2**	**1**	**2**	**1**
Toluene	T54 AR 1 µg/l	**120**	<1	<1	<1	<1	<1	<1
Trichloroethene	T54 AR 1 µg/l	<1	**2**	**2**	<1	<1	<1	<1
Vinyl chloride	T54 AR 1 µg/l	(175) **600**	**18**	**32**	<1	<1	<1	<1
Xylene (Total)	T54 AR 1 µg/l	**87**	<1	<1	<1	<1	<1	<1

Index to symbols used in 245390-1

Value	Description
AR	As Received
9	LOD raised due to dilution of sample
175	Results should be viewed with caution due to being outside of the instrument calibration range
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

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

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Electrical Conductivity	T7	AR	10	µS/cm	N	001-007
pH	T7	AR			U	001-007
Dimefox	T16	AR	0.1	µg/l	N	001-007
Ethofumesate	T16	AR	0.1	µg/l	N	001-007
Hempa	T16	AR	0.1	µg/l	N	001-007
Schradan	T16	AR	0.1	µg/l	N	001-007
Simazine	T16	AR	0.01	µg/l	N	001-007
Dicamba	T16	AR	0.1	µg/l	N	001-007
Dichlorprop	T16	AR	0.1	µg/l	N	001-007
Phenoxy Acetic acid herbicide: MCPA	T16	AR	0.1	µg/l	N	001-007
Mecoprop	T16	AR	0.1	µg/l	N	001-007
2,4,6-Trichlorophenol	T16	AR	10	µg/l	U	001-007
2-Methyl-4,6-dinitrophenol	T16	AR	10	µg/l	N	001-007
4-Chloro-2-methylphenol	T16	AR	10	µg/l	N	001-007
Bis (2-chloroethyl) ether	T16	AR	10	µg/l	U	001-007
Phenol	T16	AR	10	µg/l	U	001-007
1,2-Dichlorobenzene	T54	AR	1	µg/l	U	001-007
1,2-Dichloroethane	T54	AR	1	µg/l	U	001-007
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	U	001-007
Cyclohexanone	T54	AR	10	µg/l	N	001-007
Tetrachloroethene	T54	AR	1	µg/l	U	001-007
Toluene	T54	AR	1	µg/l	U	001-007
Trichloroethene	T54	AR	1	µg/l	U	001-007
Vinyl chloride	T54	AR	1	µg/l	U	001-007
Xylene (Total)	T54	AR	1	µg/l	U	001-007

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

Scientific Analysis Laboratories

Certificate of Analysis

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

Report Number: 245903-1

Date of Report: 10-Aug-2011

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

Customer Contact: The Project Management

Customer Job Reference: 907BRI
Date Job Received at SAL: 03-Aug-2011
Date Analysis Started: 03-Aug-2011
Date Analysis Completed: 10-Aug-2011

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

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

UKAS TESTING
1549

Report checked and authorised by :
Amelia McVennon
Project Manager

Issued by :
Amelia McVennon
Project Manager

SAL Reference: 245903
Customer Reference: 907BRI

Water Analysed as Water
Vertase Hauxton Suite

				SAL Reference	**245903 001**	**245903 002**	**245903 003**	**245903 004**	**245903 005**	**245903 006**	**245903 007**
				Customer Sample Reference	**VN3**	**BH11**	**BH9**	**S3/4**	**VF12**	**BHB1**	**BH6:06**
				Date Sampled	**01-AUG-2011**	**01-AUG-2011**	**01-AUG-2011**	**02-AUG-2011**	**02-AUG-2011**	**02-AUG-2011**	**02-AUG-2011**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**							
Electrical Conductivity	T7	AR	10	µS/cm	**2200**	**1400**	**1800**	**3300**	**1200**	**1900**	**870**
pH	T7	AR			**7.2**	**7.3**	**7.5**	**7.2**	**7.4**	**7.1**	**7.2**

SAL Reference: 245903
Customer Reference: 907BRI

Water Analysed as Water
Vertase Hauxton OP/ON Suite

				SAL Reference	**245903 001**	**245903 002**	**245903 003**	**245903 004**	**245903 005**	**245903 006**	**245903 007**
				Customer Sample Reference	**VN3**	**BH11**	**BH9**	**S3/4**	**VF12**	**BHB1**	**BH6:06**
				Date Sampled	**01-AUG-2011**	**01-AUG-2011**	**01-AUG-2011**	**02-AUG-2011**	**02-AUG-2011**	**02-AUG-2011**	**02-AUG-2011**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**							
Dimefox	T16	AR	0.1	µg/l	<0.1	<0.1	<0.1	**0.6**	<0.1	<0.1	<0.1
Ethofumesate	T16	AR	0.1	µg/l	**9.7**	**33**	**15**	**2.5**	**280**	**850**	**2.1**
Hempa	T16	AR	0.1	µg/l	<0.1	<0.1	**3.6**	**410**	**190**	<0.1	**1.0**
Schradan	T16	AR	0.1	µg/l	**0.9**	**17**	**2.2**	**560**	**100**	**620**	**2.0**
Simazine	T16	AR	0.01	µg/l	**0.08**	**0.09**	<0.01	**0.15**	**0.42**	**4.6**	**0.06**

SAL Reference: 245903
Customer Reference: 907BRI

Water Analysed as Water
Vertase Hauxton Phenoxy Acid Herbs Suite

				SAL Reference	**245903 001**	**245903 002**	**245903 003**	**245903 004**	**245903 005**	**245903 006**	**245903 007**
				Customer Sample Reference	**VN3**	**BH11**	**BH9**	**S3/4**	**VF12**	**BHB1**	**BH6:06**
				Date Sampled	**01-AUG-2011**	**01-AUG-2011**	**01-AUG-2011**	**02-AUG-2011**	**02-AUG-2011**	**02-AUG-2011**	**02-AUG-2011**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**							
Dicamba	T16	AR	0.1	µg/l	<0.1	**0.1**	**0.2**	**0.4**	<0.1	**1.6**	**0.3**
Dichlorprop	T16	AR	0.1	µg/l	**0.2**	**0.4**	**0.2**	**2.7**	**0.2**	**2.0**	<0.1
Phenoxy Acetic acid herbicide: MCPA	T16	AR	0.1	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	**0.8**	<0.1
Mecoprop	T16	AR	0.1	µg/l	**25**	**9.1**	**3.0**	**27**	**26**	**24**	**3.6**

SAL Reference: 245903
Customer Reference: 907BRI

Water Analysed as Water
Vertase Hauxton SVOC Suite

				SAL Reference	**245903 001**	**245903 002**	**245903 003**	**245903 004**	**245903 005**	**245903 006**	**245903 007**
				Customer Sample Reference	**VN3**	**BH11**	**BH9**	**S3/4**	**VF12**	**BHB1**	**BH6:06**
				Date Sampled	**01-AUG-2011**	**01-AUG-2011**	**01-AUG-2011**	**02-AUG-2011**	**02-AUG-2011**	**02-AUG-2011**	**02-AUG-2011**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**							
2,4,6-Trichlorophenol	T16	AR	10	µg/l	<10	<10	<10	**11**	<10	<10	<10
2-Methyl-4,6-dinitrophenol	T16	AR	10	µg/l	<10	<10	<10	<10	<10	<10	<10
4-Chloro-2-methylphenol	T16	AR	10	µg/l	<10	<10	**10**	**54**	**140**	**600**	<10
Bis (2-chloroethyl) ether	T16	AR	10	µg/l	**350**	**40**	**350**	**910**	**50**	**190**	<10
Phenol	T16	AR	10	µg/l	<10	<10	**10**	<10	<10	<10	<10

SAL Reference: 245903
Customer Reference: 907BRI

Water Analysed as Water
Vertase Hauxton VOC Suite

	SAL Reference	245903 001	245903 002	245903 003	245903 004	245903 005	245903 006	245903 007
	Customer Sample Reference	VN3	BH11	BH9	S3/4	VF12	BHB1	BH6:06
	Date Sampled	01-AUG-2011	01-AUG-2011	01-AUG-2011	02-AUG-2011	02-AUG-2011	02-AUG-2011	02-AUG-2011
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
1,2-Dichlorobenzene	T54	AR	1	µg/l	<1	<1	<1	<1	<1	**1**	<1
1,2-Dichloroethane	T54	AR	1	µg/l	<1	**18**	<1	<1	**8**	**12**	<1
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	<1	**5**	**1**	<1	**10**	**570**	**3**
Cyclohexanone	T54	AR	10	µg/l	<10	<10	<10	<10	<10	<10	<10
Tetrachloroethene	T54	AR	1	µg/l	<1	<1	<1	<1	**35**	**3**	<1
Toluene	T54	AR	1	µg/l	<1	<1	<1	**55**	**4**	**7**	<1
Trichloroethene	T54	AR	1	µg/l	<1	<1	<1	<1	**19**	**3**	<1
Vinyl chloride	T54	AR	1	µg/l	<1	**3**	<1	**1**	**6**	**260**	**1**
Xylene (Total)	T54	AR	1	µg/l	<1	<1	<1	**45**	**6**	**82**	<1

Index to symbols used in 245903-1

Value	Description
AR	As Received
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

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

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Electrical Conductivity	T7	AR	10	µS/cm	N	001-007
pH	T7	AR			U	001-007
Dimefox	T16	AR	0.1	µg/l	N	001-007
Ethofumesate	T16	AR	0.1	µg/l	N	001-007
Hempa	T16	AR	0.1	µg/l	N	001-007
Schradan	T16	AR	0.1	µg/l	N	001-007
Simazine	T16	AR	0.01	µg/l	N	001-007
Dicamba	T16	AR	0.1	µg/l	N	001-007
Dichlorprop	T16	AR	0.1	µg/l	N	001-007
Phenoxy Acetic acid herbicide: MCPA	T16	AR	0.1	µg/l	N	001-007
Mecoprop	T16	AR	0.1	µg/l	N	001-007
2,4,6-Trichlorophenol	T16	AR	10	µg/l	U	001-007
2-Methyl-4,6-dinitrophenol	T16	AR	10	µg/l	N	001-007
4-Chloro-2-methylphenol	T16	AR	10	µg/l	N	001-007
Bis (2-chloroethyl) ether	T16	AR	10	µg/l	U	001-007
Phenol	T16	AR	10	µg/l	U	001-007
1,2-Dichlorobenzene	T54	AR	1	µg/l	U	001-007
1,2-Dichloroethane	T54	AR	1	µg/l	U	001-007
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	U	001-007
Cyclohexanone	T54	AR	10	µg/l	N	001-007
Tetrachloroethene	T54	AR	1	µg/l	U	001-007
Toluene	T54	AR	1	µg/l	U	001-007
Trichloroethene	T54	AR	1	µg/l	U	001-007
Vinyl chloride	T54	AR	1	µg/l	U	001-007
Xylene (Total)	T54	AR	1	µg/l	U	001-007

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

Scientific Analysis Laboratories Ltd

Certificate of Analysis

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

Report Number: 249485-1

Date of Report: 12-Sep-2011

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

Customer Contact: The Project Management

Customer Job Reference: 907 BRI
Customer Purchase Order: 907 BRI
Date Job Received at SAL: 05-Sep-2011
Date Analysis Started: 06-Sep-2011
Date Analysis Completed: 12-Sep-2011

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

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

UKAS TESTING
1549

Report checked
and authorised by :
Miss Emma Tibbitts
Senior Project Manager

Issued by :
Miss Emma Tibbitts
Senior Project Manager

SAL Reference: 249485
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton Suite

				SAL Reference	**249485 001**	**249485 002**	**249485 003**	**249485 004**
				Customer Sample Reference	**BH11**	**WS17**	**VN3**	**BH9**
				Date Sampled	**02-SEP-2011**	**02-SEP-2011**	**02-SEP-2011**	**02-SEP-2011**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
Electrical Conductivity	T7	AR	10	µS/cm	**900**	**1800**	**2400**	**1900**
pH	T7	AR			**6.8**	**7.0**	**7.0**	**7.2**

SAL Reference: 249485
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton OP/ON Suite

				SAL Reference	**249485 001**	**249485 002**	**249485 003**	**249485 004**
				Customer Sample Reference	**BH11**	**WS17**	**VN3**	**BH9**
				Date Sampled	**02-SEP-2011**	**02-SEP-2011**	**02-SEP-2011**	**02-SEP-2011**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
Dimefox	T16	AR	0.1	µg/l	<0.1	<0.1	<0.1	<0.1
Ethofumesate	T16	AR	0.1	µg/l	<0.1	**0.9**	**7.8**	**0.1**
Hempa	T16	AR	0.1	µg/l	**3.0**	**1.3**	<0.1	**4.0**
Schradan	T16	AR	0.1	µg/l	**14**	**1.8**	**0.7**	**0.8**
Simazine	T16	AR	0.01	µg/l	**0.33**	**0.52**	<0.01	<0.01

SAL Reference: 249485
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton Phenoxy Acid Herbs Suite

				SAL Reference	**249485 001**	**249485 002**	**249485 003**	**249485 004**
				Customer Sample Reference	**BH11**	**WS17**	**VN3**	**BH9**
				Date Sampled	**02-SEP-2011**	**02-SEP-2011**	**02-SEP-2011**	**02-SEP-2011**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
Dicamba	T16	AR	0.1	µg/l	<0.1	**0.4**	<0.1	<0.1
Dichlorprop	T16	AR	0.1	µg/l	<0.1	**0.5**	<0.1	<0.1
Phenoxy Acetic acid herbicide: MCPA	T16	AR	0.1	µg/l	<0.1	<0.1	<0.1	<0.1
Mecoprop	T16	AR	0.1	µg/l	**1.9**	**30**	**5.8**	**2.1**

SAL Reference: 249485
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton VOC Suite

				SAL Reference	**249485 001**	**249485 002**	**249485 003**	**249485 004**
				Customer Sample Reference	**BH11**	**WS17**	**VN3**	**BH9**
				Date Sampled	**02-SEP-2011**	**02-SEP-2011**	**02-SEP-2011**	**02-SEP-2011**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
Vinyl chloride	T54	AR	1	µg/l	<1	**5**	<1	**2**
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	<1	**6**	**1**	**4**
1,2-Dichloroethane	T54	AR	1	µg/l	<1	<1	<1	<1
Trichloroethene	T54	AR	1	µg/l	<1	<1	<1	<1
Toluene	T54	AR	1	µg/l	<1	<1	<1	<1
Tetrachloroethene	T54	AR	1	µg/l	<1	<1	<1	<1
Xylene (Total)	T54	AR	1	µg/l	<1	<1	<1	<1
1,2-Dichlorobenzene	T54	AR	1	µg/l	<1	<1	<1	<1
Cyclohexanone	T54	AR	10	µg/l	<10	<10	<10	<10

SAL Reference: 249485
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton SVOC Suite

	SAL Reference	249485 001	249485 002	249485 003	249485 004
	Customer Sample Reference	BH11	WS17	VN3	BH9
	Date Sampled	02-SEP-2011	02-SEP-2011	02-SEP-2011	02-SEP-2011
Determinand	Method / Test Sample / LOD / Units				
2,4,6-Trichlorophenol	T16 AR 10 µg/l	<10	<10	<10	<10
2-Methyl-4,6-dinitrophenol	T16 AR 10 µg/l	<10	<10	<10	<10
4-Chloro-2-methylphenol	T16 AR 10 µg/l	<10	**56**	<10	<10
Bis (2-chloroethyl) ether	T16 AR 10 µg/l	<10	**1500**	**550**	**340**
Phenol	T16 AR 10 µg/l	(36) <50	(36) <50	(36) <50	(36) <50

Index to symbols used in 249485-1

Value	Description
AR	As Received
36	LOD Raised due to low Matrix spike recovery
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

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

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Vinyl chloride	T54	AR	1	µg/l	U	001-004
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	U	001-004
1,2-Dichloroethane	T54	AR	1	µg/l	U	001-004
Trichloroethene	T54	AR	1	µg/l	U	001-004
Toluene	T54	AR	1	µg/l	U	001-004
Tetrachloroethene	T54	AR	1	µg/l	U	001-004
Xylene (Total)	T54	AR	1	µg/l	U	001-004
1,2-Dichlorobenzene	T54	AR	1	µg/l	U	001-004
Cyclohexanone	T54	AR	10	µg/l	N	001-004
Electrical Conductivity	T7	AR	10	µS/cm	N	001-004
pH	T7	AR			U	001-004
Dimefox	T16	AR	0.1	µg/l	N	001-004
Ethofumesate	T16	AR	0.1	µg/l	N	001-004
Hempa	T16	AR	0.1	µg/l	N	001-004
Schradan	T16	AR	0.1	µg/l	N	001-004
Simazine	T16	AR	0.01	µg/l	N	001-004
Dicamba	T16	AR	0.1	µg/l	N	001-004
Dichlorprop	T16	AR	0.1	µg/l	N	001-004
Phenoxy Acetic acid herbicide: MCPA	T16	AR	0.1	µg/l	N	001-004
Mecoprop	T16	AR	0.1	µg/l	N	001-004
2,4,6-Trichlorophenol	T16	AR	10	µg/l	U	001-004
2-Methyl-4,6-dinitrophenol	T16	AR	10	µg/l	N	001-004
4-Chloro-2-methylphenol	T16	AR	10	µg/l	N	001-004
Bis (2-chloroethyl) ether	T16	AR	10	µg/l	U	001-004
Phenol	T16	AR	10	µg/l	U	001-004

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Scientific Analysis Laboratories Ltd

Certificate of Analysis

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

Report Number: 249764-1

Date of Report: 13-Sep-2011

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

Customer Contact: The Project Management

Customer Job Reference: 907 BRI
Customer Purchase Order: 907 BRI
Date Job Received at SAL: 07-Sep-2011
Date Analysis Started: 08-Sep-2011
Date Analysis Completed: 13-Sep-2011

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

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

UKAS TESTING
1549

Report checked
and authorised by :
Miss Emma Tibbitts
Senior Project Manager

Issued by :
Miss Emma Tibbitts
Senior Project Manager

SAL Reference: 249764
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton Suite

SAL Reference	**249764 001**
Customer Sample Reference	**BH6/06**
Date Sampled	**05-SEP-2011**

Determinand	Method	Test Sample	LOD	Units	
Electrical Conductivity	T7	AR	10	µS/cm	**1200**
pH	T7	AR			**7.2**

SAL Reference: 249764
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton OP/ON Suite

SAL Reference	**249764 001**
Customer Sample Reference	**BH6/06**
Date Sampled	**05-SEP-2011**

Determinand	Method	Test Sample	LOD	Units	
Dimefox	T16	AR	0.1	µg/l	<0.1
Ethofumesate	T16	AR	0.1	µg/l	**1.0**
Hempa	T16	AR	0.1	µg/l	<0.1
Schradan	T16	AR	0.1	µg/l	<0.1
Simazine	T16	AR	0.01	µg/l	**0.01**

SAL Reference: 249764
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton Phenoxy Acid Herbs Suite

SAL Reference	**249764 001**
Customer Sample Reference	**BH6/06**
Date Sampled	**05-SEP-2011**

Determinand	Method	Test Sample	LOD	Units	
Dicamba	T16	AR	0.1	µg/l	<0.1
Dichlorprop	T16	AR	0.1	µg/l	**0.5**
Phenoxy Acetic acid herbicide: MCPA	T16	AR	0.1	µg/l	**1.9**
Mecoprop	T16	AR	0.1	µg/l	**0.8**

SAL Reference: 249764
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton VOC Suite

SAL Reference	**249764 001**
Customer Sample Reference	**BH6/06**
Date Sampled	**05-SEP-2011**

Determinand	Method	Test Sample	LOD	Units	
1,2-Dichlorobenzene	T54	AR	1	µg/l	<1
1,2-Dichloroethane	T54	AR	1	µg/l	<1
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	**18**
Cyclohexanone	T54	AR	10	µg/l	<10
Tetrachloroethene	T54	AR	1	µg/l	**300**
Toluene	T54	AR	1	µg/l	**14**
Trichloroethene	T54	AR	1	µg/l	**180**
Vinyl chloride	T54	AR	1	µg/l	<1
Xylene (Total)	T54	AR	1	µg/l	<1

SAL Reference: 249764
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton SVOC Suite

SAL Reference	**249764 001**
Customer Sample Reference	**BH6/06**
Date Sampled	**05-SEP-2011**

Determinand	Method	Test Sample	LOD	Units	
2,4,6-Trichlorophenol	T16	AR	10	µg/l	<10
2-Methyl-4,6-dinitrophenol	T16	AR	10	µg/l	<10
4-Chloro-2-methylphenol	T16	AR	10	µg/l	<10
Bis (2-chloroethyl) ether	T16	AR	10	µg/l	**32**
Phenol	T16	AR	10	µg/l	(36) <30

Index to symbols used in 249764-1

Value	Description
AR	As Received
36	LOD Raised due to low Matrix spike recovery
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

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

Accreditation Summary

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

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Scientific Analysis Laboratories Ltd

Certificate of Analysis

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

Report Number: 249765-1

Date of Report: 13-Sep-2011

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

Customer Contact: The Project Management

Customer Job Reference: 907 BRI
Customer Purchase Order: 907 BRI
Date Job Received at SAL: 07-Sep-2011
Date Analysis Started: 08-Sep-2011
Date Analysis Completed: 13-Sep-2011

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

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

UKAS TESTING
1549

Report checked
and authorised by :
Miss Emma Tibbitts
Senior Project Manager

Issued by :
Miss Emma Tibbitts
Senior Project Manager

SAL Reference: 249765
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton Suite

SAL Reference	**249765 001**
Customer Sample Reference	**S3/6**
Date Sampled	**05-SEP-2011**

Determinand	Method	Test Sample	LOD	Units	
Electrical Conductivity	T7	AR	10	µS/cm	**5900**
pH	T7	AR			**7.7**

SAL Reference: 249765
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton OP/ON Suite

SAL Reference	**249765 001**
Customer Sample Reference	**S3/6**
Date Sampled	**05-SEP-2011**

Determinand	Method	Test Sample	LOD	Units	
Dimefox	T16	AR	0.1	µg/l	<0.1
Ethofumesate	T16	AR	0.1	µg/l	**87**
Hempa	T16	AR	0.1	µg/l	**2400**
Schradan	T16	AR	0.1	µg/l	**12000**
Simazine	T16	AR	0.01	µg/l	**0.90**

SAL Reference: 249765
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton Phenoxy Acid Herbs Suite

SAL Reference	**249765 001**
Customer Sample Reference	**S3/6**
Date Sampled	**05-SEP-2011**

Determinand	Method	Test Sample	LOD	Units	
Dicamba	T16	AR	0.1	µg/l	**42**
Dichlorprop	T16	AR	0.1	µg/l	**120**
Phenoxy Acetic acid herbicide: MCPA	T16	AR	0.1	µg/l	**2200**
Mecoprop	T16	AR	0.1	µg/l	**270**

SAL Reference: 249765
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton VOC Suite

SAL Reference	**249765 001**
Customer Sample Reference	**S3/6**
Date Sampled	**05-SEP-2011**

Determinand	Method	Test Sample	LOD	Units	
1,2-Dichlorobenzene	T54	AR	1	µg/l	**(19) 220**
1,2-Dichloroethane	T54	AR	1	µg/l	**(19) 5100**
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	**(19) 22000**
Cyclohexanone	T54	AR	10	µg/l	(19,9) <2000
Tetrachloroethene	T54	AR	1	µg/l	**(19) 97000**
Toluene	T54	AR	1	µg/l	**(19) 5100**
Trichloroethene	T54	AR	1	µg/l	**(19) 77000**
Vinyl chloride	T54	AR	1	µg/l	**(19) 1500**
Xylene (Total)	T54	AR	1	µg/l	(9,19) <200

SAL Reference: 249765
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton SVOC Suite

SAL Reference	**249765 001**
Customer Sample Reference	**S3/6**
Date Sampled	**05-SEP-2011**

Determinand	Method	Test Sample	LOD	Units	
2,4,6-Trichlorophenol	T16	AR	10	µg/l	**1300**
2-Methyl-4,6-dinitrophenol	T16	AR	10	µg/l	(36) <30
4-Chloro-2-methylphenol	T16	AR	10	µg/l	**6000**
Bis (2-chloroethyl) ether	T16	AR	10	µg/l	**79000**
Phenol	T16	AR	10	µg/l	(36) <30

Index to symbols used in 249765-1

Value	Description
AR	As Received
36	LOD Raised due to low Matrix spike recovery
9	LOD raised due to dilution of sample
19	Due to high levels the analysis was conducted on a diluted sample
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

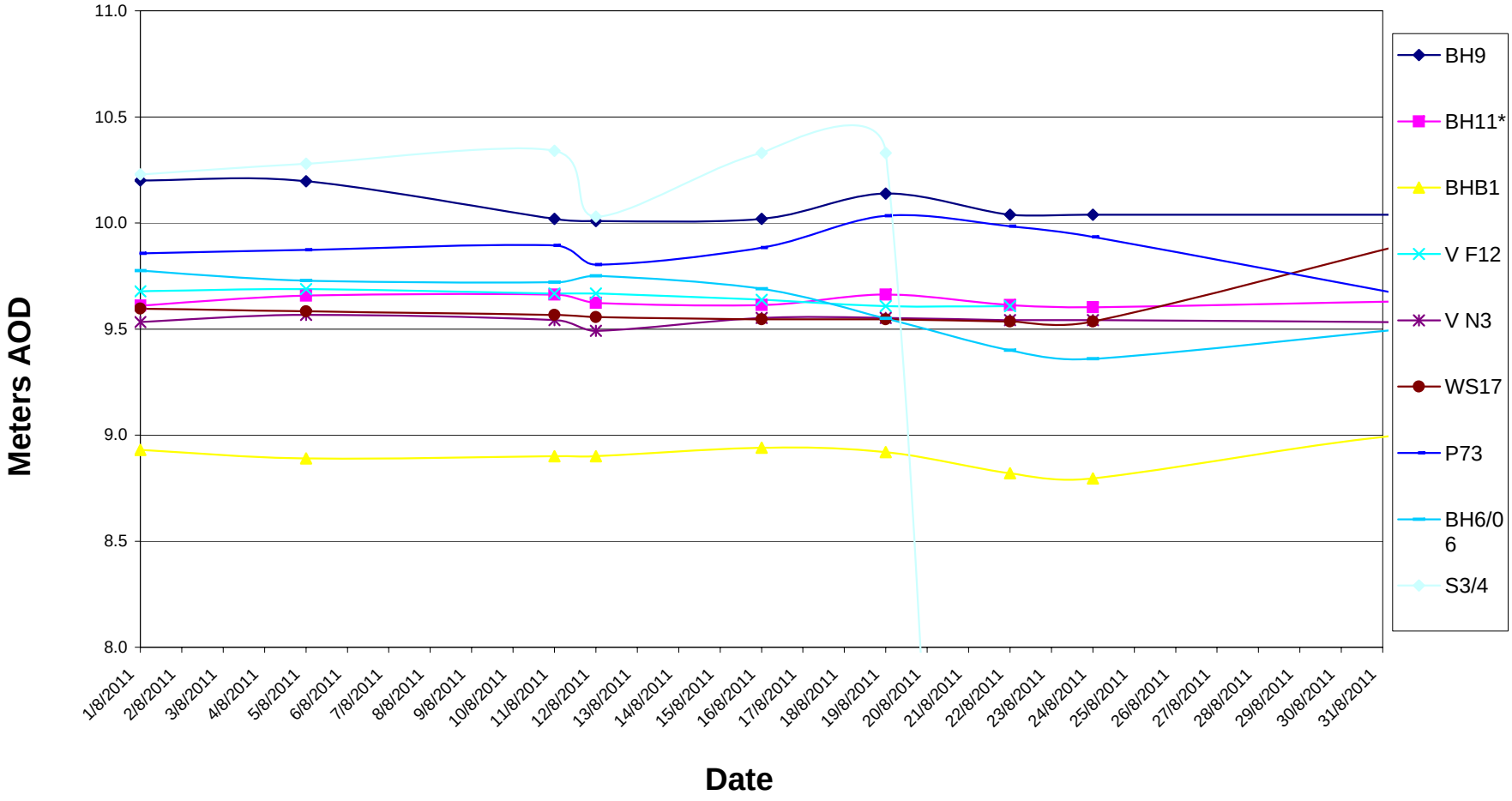
Value	Description
T16	GC/MS
T7	Probe
T54	GC/MS (Headspace)

Accreditation Summary

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

Appendix G
Groundwater Level Graph

Hauxton Groundwater Level Data August 2011



Appendix H

Waste Water Treatment Plant Discharge Analysis

Water Quality Analysis of Effluent Discharge Sample

				Bromide	Chloride	Sulphate Ion	Suspended Solids (Total)	Ammoniacal Nitrogen	Biochemical Oxygen Demand	pH	Atrazine	Trietazine	Simazine	Total Atrazine, Trietazine and Simazine	Benazolin	2,3,6-TBA	Dicamba	Hempa	Schradan
Sample Taken	Report Date	Report Number	Sample Location	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l		µg/l	µg/l	µg/l	ug/l	µg/l	µg/l	µg/l	µg/l	µg/l
Consented Levels				*50*	*3000*	*5000*	*45*	*15*	*30*	*na*	*Total of all three*			*250*	*50*	*20*	*50*	*274*	*135*
13/1/2011	25/1/2011	224623	WWTW Discharge	<0.2	92.00	140.00	<10	0.38	<3	7.6	<0.01	0.05	<0.01	0.05	<0.1	<0.1	0.1	15	6.5
15/2/2011	23/2/2011	228099	WWTW Discharge	<0.1	170.00	220.00	<10	0.08	<3	9.1	<0.01	<0.01	<0.01	0.00	1.1	<0.1	<0.01	<0.1	<0.1
23/2/2011	9/3/2011	229026	WWTW Discharge	1.70	200.00	250.00	<10	<0.05	<3	8.1	<0.01	<0.01	<0.01	0.00	<0.1	0.20	<0.1	0.40	0.20
2/3/2011	15/3/2011	229789	WWTW Discharge	<0.1	220.00	290.00	<10	<0.05	<3	8.2	<0.01	0.02	<0.01	0.02	<0.1	0.4	<0.1	0.9	0.4
7/3/2011	18/3/2011	230442	WWTW Discharge	NT	NT	NT	NT	NT	NT	8.1	NT	NT	<0.01	NT	NT	NT	0.20	0.6	0.3
23/3/2011	1/4/2011	232143	WWTW Discharge	<0.1	190.00	210.00	<10	<0.05	<3	7.9	<0.01	0.02	<0.01	0.02	<0.1	<0.1	<0.1	0.5	0.2
5/4/2011	13/4/2011	233543	WWTW Discharge	<0.1	190.00	200.00	<10	<0.05	<3	8.0	<0.01	0.03	<0.01	0.03	<0.1	0.8	<0.1	1.1	0.5
20/4/2011	3/5/2011	235339	WWTW Discharge	<0.1	150.00	190.00	<10	<0.05	<3	4.0	<0.01	<0.01	<0.01	0.00	<0.1	<0.1	<0.1	1.2	0.4
4/5/2011	16/5/2011	236232	WWTW Discharge	<0.2	150.00	180.00	<10	<0.01	<3	8.1	0.03	0.07	0.01	0.11	<0.1	0.8	<0.1	0.8	0.3
12/5/2011	26/5/2011	237211	WWTW Discharge	<0.1	160.00	190.00	15	0.18	<3	8.1	0.03	0.09	<0.01	0.12	<0.1	0.3	<0.1	0.5	<0.1
18/5/2011	31/5/2011	237962	WWTW Discharge	<0.1	130.00	170.00	<10	<0.05	<3	7.9	<0.01	<0.01	<0.01	0.00	<0.1	0.2	0.1	0.4	0.1
2/6/2011	14/6/2011	239421	WWTW Discharge	0.5	130.00	190.00	<10	<0.05	<3	7.8	0.05	0.07	<0.01	0.12	<0.1	3.3	0.3	10	6.7
14/6/2011	22/6/2011	240642	WWTW Discharge	<0.1	140.00	220.00	<10	<0.05	24	8.1	<0.01	<0.01	<0.01	0.00	<0.1	2.5	<0.1	31	30
29/6/2011	7/7/2011	242142	WWTW Discharge	<0.2	160.00	260.00	<10	<0.05	<3	8.2	<0.01	0.01	<0.01	0.01	<0.1	<0.1	<0.1	16	5
11/7/2011	21/7/2011	243434	WWTW Discharge	<0.1	150.00	240.00	<10	<0.05	<3	8.1	<0.01	0.03	<0.01	0.03	<0.1	3	<0.1	12	9.9
25/7/2011	1/8/2011	244979	WWTW Discharge	<0.1	150.00	240.00	<10	0.07	<3	8.2	<0.01	<0.01	<0.01	0.00	<0.1	10	0.4	19	12

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Scientific Analysis Laboratories Ltd

Certificate of Analysis

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Report Number: Interim to 249090-1

Date of Report: 08-Sep-2011

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

Customer Contact: Ms. Lucy Buckley

Customer Job Reference: 907 BRI
Customer Purchase Order: 907 BRI
Date Job Received at SAL: 01-Sep-2011
Date Analysis Started: 01-Sep-2011
Date Analysis Completed: 08-Sep-2011

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

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1549

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

Issued by :
Mr Ross Walker
Customer Services Manager

SAL Reference: 249090
Customer Reference: 907 BRI

Water Analysed as Water
Miscellaneous

					SAL Reference	**249090 001**	**249090 002**
					Customer Sample Reference	**WWTW Discharge**	**WWTW Primary**
					Date Sampled	**30-AUG-2011**	**30-AUG-2011**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Ammoniacal nitrogen	T4	AR	50	µg/l	<50	<50
Biochemical Oxygen Demand	T7	AR	3000	µg/l	<3000	<3000
pH	T7	AR			**8.0**	**8.3**

SAL Reference: 249090
Customer Reference: 907 BRI

Water Analysed as Water
Suite A

					SAL Reference	**249090 001**	**249090 002**
					Customer Sample Reference	**WWTW Discharge**	**WWTW Primary**
					Date Sampled	**30-AUG-2011**	**30-AUG-2011**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Atrazine	T16	AR	0.01	µg/l	**0.01**	**0.09**
Trietazine	T16	AR	0.01	µg/l	**0.04**	**3.6**

SAL Reference: 249090
Customer Reference: 907 BRI

Water Analysed as Water
Suite B

					SAL Reference	**249090 001**	**249090 002**
					Customer Sample Reference	**WWTW Discharge**	**WWTW Primary**
					Date Sampled	**30-AUG-2011**	**30-AUG-2011**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Benazolin	T16	AR	0.1	µg/l	<0.1	**5.0**
2,3,6-TCB	T16	AR	0.1	µg/l	**0.1**	**1.1**

SAL Reference: 249090
Customer Reference: 907 BRI

Water Analysed as Water
Suite C

					SAL Reference	**249090 001**	**249090 002**
					Customer Sample Reference	**WWTW Discharge**	**WWTW Primary**
					Date Sampled	**30-AUG-2011**	**30-AUG-2011**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Bromide	T253	AR	100	µg/l	**300**	**200**
Chloride	T253	AR	200	µg/l	**89000**	**76000**
Sulphate ion	T253	AR	100	µg/l	**95000**	**67000**
Suspended Solids (Total)	T2	AR	10000	µg/l	<10000	<10000

SAL Reference: 249090
Customer Reference: 907 BRI

Water Analysed as Water
Suite D

				SAL Reference	**249090 001**	**249090 002**
				Customer Sample Reference	**WWTW Discharge**	**WWTW Primary**
				Date Sampled	**30-AUG-2011**	**30-AUG-2011**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Dicamba	T16	AR	0.1	µg/l	<0.1	<0.1
Hempa	T16	AR	0.1	µg/l	**23**	**8.3**
Schradan	T16	AR	0.1	µg/l	**8.7**	**8.0**
Simazine	T16	AR	0.01	µg/l	**0.01**	**0.12**

SAL Reference: 249090
Customer Reference: 907 BRI

Water Analysed as Water
Suite E

				SAL Reference	**249090 001**	**249090 002**
				Customer Sample Reference	**WWTW Discharge**	**WWTW Primary**
				Date Sampled	**30-AUG-2011**	**30-AUG-2011**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
TVC at 22 C	T34	AR	10	cfu/ml	**44000**	**24000**
TVC at 37 C	T34	AR	10	cfu/ml	**2600**	**9700**

Index to symbols used in Interim to 249090-1

Value	Description
AR	As Received
W	Analysis was performed at another SAL laboratory
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Notes

Interim report issued for results so far.

Method Index

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

Accreditation Summary

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

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
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
TVC at 22 C	T34	AR	10	cfu/ml	WN	001-002
TVC at 37 C	T34	AR	10	cfu/ml	WN	001-002

Appendix I
Soil Characterisation Results Summary

Results Received	Reported to SCDC	Grid square	Contaminant	Concentration (µg/kg)	Likely use/origin
12.04.2010	06.05.2010	K15	VOC/SVOC peaks detected		
12.04.2010	06.05.2010	K16	Series of Aromatic Hydrocarbons circa C_{13}-C_{16}	17,000	Potential herbicide degradation products. The structures are smaller and less complex than contaminants of concern and will therefore degrade more readily than the target contaminants and will be captured by the remediation process.
15.04.2010	06.05.2010 (09.06.2010)	J16	2(1-methylpropyl)-phenol	10,000	Encountered and assessed during site investigation, not a priority contaminant
			2,6-bis(1-methylpropyl)-phenol	100,000	Commonly used in the manufacture of specialty surfactants used as wetting agents for agrochemicals.
			2,6-bis(1,1-dimethylethyl)-4-(1-methylpropyl)-phenol	6,000	Commonly used as an antioxidant and stabiliser, also used in oils used in industrial applications.
			Unidentified branched aromatic alcohol, C_{14}	240,000	Potential herbicide degradation products. The structures are smaller and less complex than contaminants of concern and will therefore degrade more readily than the target contaminants and will be captured by
			Unidentified branched aromatic alcohol, C_{18}	290,000	
15.04.2010	06.05.2010	K14	Phenanthrene	4,100	Encountered and assessed during site investigation, concentration below target value
			Fluoranthene	4,800	
			Pyrene	3,900	
			Benzo(b/k)Fluoranthene	2,200	
07.05.2010	24.05.2010	K9	Dodecanoic acid (Lauric acid), isooctyl ester	2,400	Lauric acid - main acid in coconut oil and palm kernel oil, is non-toxic and safe to handle, is used in many soaps, shampoos and body butters.
			Unidentified Aliphatic Hydrocarbon circa C_{30}	2,300	Potential herbicide degradation products. The structures are smaller and less complex than contaminants of concern and will therefore degrade more readily than the target contaminants and will be captured by the remediation process.
			2,4-Dichloro-o-cresol	9,000	Potential herbicide degradation product
			Bis(2-ethylhexyl) maleate	3,800	Commonly used as an intermediate in hydrogenation or acetylation reactions, possibly used in agrochemicals manufacture
			Cyclo octaatomic sulphur	2,800	S_8 is the most common form of sulphur in the solid state, widely used in insecticide and fungicide manufacture

07.05.2010	24.05.2010 (09.06.2010)	L8	Dodecanoic acid (Lauric acid), isooctyl ester	7,400	Lauric acid - main acid in coconut oil and palm kernel oil, is non-toxic and safe to handle, is used in many soaps, shampoos and body butters.
			Unidentified aromatic hydrocarbon containing O and Cl circa C_7	8,400	Potential herbicide degradation products. The structures are smaller and less complex than contaminants of concern and will therefore degrade more readily than the target contaminants and will be captured by the remediation process.
07.05.2010	24.05.2010	L9	Unidentified Aliphatic Hydrocarbon circa C_{30}	2,300	Potential herbicide degradation products. The structures are smaller and less complex than contaminants of concern and will therefore degrade more readily than the target contaminants and will be captured by the remediation process.
13.05.2010	24.05.2010	H8	No VOC/SVOC peaks detected		
13.05.2010	24.05.2010 (09.06.2010)	H9	1,2-bis(2,4,6-trichlorophenoxy)ethane	6,900	Potential Prochloraz degradation product
			Prochloraz	9,100	Fungicide
			Unidentified aromatic hydrocarbon containing Cl circa C_8	9,400	Potential herbicide degradation products. The structures are smaller and less complex than contaminants of concern and will therefore degrade more readily than the target contaminants and will be captured by the remediation process.
			Unidentified aromatic amine containing Cl circa C_{11}	2,100	
13.05.2010	24.05.2010	I7	No SVOC peaks detected		
13.05.2010	24.05.2010 (09.06.2010)	I9	2,4-Dichloro-o-cresol	29,000	Potential herbicide degradation product
			2,3,6-Trichlorotoluene	47,000	
			1-(2-Chloroethoxy)-2-(o-Tolyloxy) ethane	20,000	
			Unidentified aromatic alcohol containing Cl circa C_7	25,000	Potential herbicide degradation products. The structures are smaller and less complex than contaminants of concern and will therefore degrade more readily than the target contaminants and will be captured by the remediation process.
			Unidentified aromatic hydrocarbon containing O circa $C_{16\text{-}18}$	12,000	
13.05.2010	24.05.2010	J7	No VOC/SVOC peaks detected		
20.05.2010	24.05.2010	J8	No VOC/SVOC peaks detected		
26.05.2010		J9	No VOC/SVOC peaks detected		
04.06.2010	16.06.2010 (09.06.2010)	H7	Dichloromethyl phenol	2,100	Same as 2,4-Dichloro-o-cresol (I9)
05.05.2010	16.06.2010 (09.06.2010)	K7	1,2-bis(2,4,6-trichlorophenoxy)ethane	2400.0	As for H9
05.05.2010	16.06.2010	K8	No VOC/SVOC peaks detected		

18.06.2010	29.06.2010	I8	2-methyl phenol	5,500	Encountered and assessed during site investigation, not a priority contaminant
			1,2-dichlorobenzene	3,600	Contaminant of concern, already included in the standard validation suite
17.06.2010	29.06.2010 (09.06.2010)	K10	2,4-Dichloro-o-cresol	550,000	As for I9 and H7
22.06.2010		L10	Cyclo octaatomic sulphur	16,000	As for L8 - Sulphur
20.07.2010	21.07.2010	K10 NAPL	Dichloromethyl phenol	1,800,000	As for 2,4-Dichloro-o-cresol (I9, H7, K10)
			Naphthalene	4,600,000	Encountered and assessed during site investigation, not a priority contaminant
			2-methylnaphthalene	3,900,000	
			1-methylnaphthalene *CAS 90-12-0*	2,400,000	More toxic than 2-methylnaphthalene, must be assessed separately
			Dinoseb *CAS 88-85-7*	68,000,000	2-(1-methylpropyl)-4,6-dinitro- phenol - herbicide and insecticide. Yellow crystalline solid.
21.07.2010	22.07.2010	J10	Dichloromethyl phenol	24,000	As for 2,4-Dichloro-o-cresol (I9, H7, K10)
			1-(2-Chloroethoxy)-2-(o-Tolyloxy) ethane *CAS 21120-80-9*	13,000	Same as I9
			1,2,4-Trichlorobenzene	28,000	Encountered and assessed during site investigation, not a priority contaminant
			Trichlorobenzene	32,000	
			2-Chlorotoluene	60,000	
			Trichloro toluene isomer	48,000	Same as I9
			Trichloro benzenamine isomer	11,000	Potential herbicide degradation product
			2,3-Dichlorotoluene *CAS 32768-54-0*	290,000	
21.07.2010	22.07.2010	L11	Dichloromethyl phenol	5,000	As for 2,4-Dichloro-o-cresol (I9, H7, K10, J10)
28.07.2010	02.08.2010	H10	2,4-Dichloro-o-cresol *CAS 1570-65-6*	10,000	As for I9, H7, K10, J10, L11
			Trichloro toluene isomers	58,000	Same as I9, J10
			Dichlorotoluene isomer	52,000	6 possible isomers, but very little data, using surrogate.
			2-Chlorotoluene	39,000	Encountered and assessed during site investigation, not a priority contaminant
			Trichlorobenzene	350,000	
28.07.2010	02.08.2010	I10	2,4-Dichloro-o-cresol *CAS 1570-65-6*	5,000	As for I9, H7, K10, J10, L11, H10
			Trichloro toluene isomers	24,000	Same as I9, J10, H10
03.08.2010	04.08.2010	L12	2,4-Dichloro-o-cresol *CAS 1570-65-6*	7,000	As for I9, H7, K10, J10, L11, H10, I10
03.08.2010	04.08.2010	L13	No VOC/SVOC peaks detected		
03.08.2010	04.08.2010	K12	2,4-Dichloro-o-cresol *CAS 1570-65-6*	7,000	As for I9, H7, K10, J10, L11, H10, I10, L12

03.08.2010	04.08.2010	K13 sand & gravel	Cyclo octaatomic sulphur	68,000	As for L8, L10 - Sulphur
05.08.2010	N/A	K13 chalk	2,4-Dichloro-o-cresol CAS 1570-65-6	650,000	As for I9, H7, K10, J10, L11, H10, I10, L12, K12
			Trichloro toluene isomers	1,140,000	Same as I9, J10, H10, I10
			1-(2-Chloroethoxy)-2-(o-Tolyloxy) ethane CAS 21120-80-9	140,000	Same as I9 and J10
			Dichlorotoluene isomer	99,000	Same as J10, H10
			2-Chlorotoluene	12,000	Encountered and assessed during site investigation, not a priority contaminant
05.08.2010	N/A	K11	2,4-Dichloro-o-cresol CAS 1570-65-6	22,000	As for I9, H7, K10, J10, L11, H10, I10, L12, K12, K13
05.08.2010	N/A	J11	2,4-Dichloro-o-cresol CAS 1570-65-6	220,000	As for I9, H7, K10, J10, L11, H10, I10, L12, K12, K13
			Trichloro toluene isomers	376,000	Same as I9, J10, H10, I10, K13
			Dinoseb CAS 88-85-7	90,000	Same as K10
			Dichlorotoluene isomer	18,000	Same as H10, K13
			2-Chlorotoluene	13,000	Encountered and assessed during site investigation, not a priority contaminant
12.08.2010	17.08.2010	J12	2-chloro Benzenemethanol CAS 17849-38-6	620	Potential agrochemical synthesis ingredient - further investigation is required
			2-Chlorobenzalazine CAS 5328-80-3	5,900	
			2,4-Dichloro-o-cresol CAS 1570-65-6	2,000	As for I9, H7, K10, J10, L11, H10, I10, L12, K12, K13, J11
			2(1-methylpropyl)-phenol	610	Encountered and assessed during site investigation, not a priority contaminant
12.08.2010	N/A	J13	2,4-Dichloro-o-cresol CAS 1570-65-6	3,400	As for I9, H7, K10, J10, L11, H10, I10, L12, K12, K13, J11, J12
24.08.2010	25.08.2010	J14	Total Petroleum Hydrocarbons (C5-C12)	43,000	Encountered and assessed during site investigation, not a priority contaminant
			1,3,5-Trimethylbenzene CAS 108-67-8	1,600	Encountered and assessed during site investigation, not a priority contaminant
			1,2,4-Trimethylbenzene CAS 95-63-6	600	
			1,2,3-Trimethylbenzene CAS 526-73-8	700	Isomers encountered and assessed during site investigation, quantitative risk assessment not required
			1-Ethyl-2-Methylbenzene CAS 611-14-3	500	Potential agrochemical synthesis ingredient - further investigation is required
25.08.2010	N/A	I13	1-methylnaphthalene CAS 90-12-0	100	Same as K10NAPL

			Phenanthrene	200	Encountered and assessed during site investigation, not a priority contaminant
			Fluoranthene	300	
			Pyrene	300	
			Benzo(b/k)Fluoranthene	200	
01.09.2010	N/A	I14	Trichloro methyl benzene (trichloro toluene)	400	Same as I9, J10, H10, I10, K13, J11
01.09.2010	N/A	I15	Dichlorocresol	2600	As for I9, H7, K10, J10, L11, H10, I10, L12, K12, K13, J11, J12
			Dichlorophenoxybutyric acid	6300	Herbicide encountered and assessed during site investigation, similar to MCPA and Mecoprop which are higher risk substances, therefore not a priority contaminant
01.09.2010	N/A	H14	No VOC/SVOC peaks detected		
01.09.2010	N/A	H15	No VOC/SVOC peaks detected		
03.09.2010	N/A	I11	Dichlorocresol	3,300	As for I9, H7, K10, J10, L11, H10, I10, L12, K12, K13, J11, J12, I15
			Trichloro methyl benzene (trichloro toluene)	1,000	Same as I9, J10, H10, I10, K13, J11, I14
			Prochloraz CAS 67747-09-5	800	Same as H9
03.09.2010	N/A	I12	1-methylnaphthalene CAS 90-12-0	40,000	Same as K10NAPL, I13
			Dibenzofuran	24,000	Encountered and assessed during site investigation, not a priority contaminant
			Phenanthrene	60,000	
			Fluoranthene	29,000	
			Acenaphthene	31,000	
24.09.2010	N/A	J15	Methylpropyl phenol	340	Encountered and assessed during site investigation, not a priority contaminant
24.09.2010	28.09.2010	H13	Oxathiane 4,4-dioxide CAS 107-61-9	220	
	N/A		Trichloro methyl benzene (trichloro toluene)	230	Same as I9, J10, H10, I10, K13, J11, I14, I11
			Dichloromethylphenol	2100	As for I9, H7, K10, J10, L11, H10, I10, L12, K12, K13, J11, J12, I15, I11
			1-(2-Chloroethoxy)-2-(o-Tolyloxy) ethane CAS 21120-80-9	470	Same as I9, J10, K13
01.10.2010	N/A	H11	No VOC/SVOC peaks detected		
01.10.2010	05.10.2010	H12	Indane CAS 496-11-7	3700000	2-ring hydrocarbon
	N/A		Ethyltoluene (ethyl methyl benzene) isomer	4500000	As J14
			Bis methylpropyl phenol isomer	980000	As J16
			1,3,5-Trimethylbenzene	3900000	Encountered and assessed during site

			1,2,4-Trimethylbenzene	10000000	investigation, not a priority contaminant
			1,2,3-Trimethylbenzene	3100000	
22.10.2010 (216017)	25.10.2010	G12	Nicotine	6400	Natural insecticide
	N/A		Dichloromethyl phenol	2900	As for I9, H7, K10, J10, L11, H10, I10, L12, K12, K13, J11, J12, I15, I11, H13
			Methylpropyl phenol	9400	Encountered and assessed during site investigation, not a priority contaminant
			Schradan	1200	Contaminant of concern, already included in the standard validation suite
22.10.2010 (216017)	N/A	G13	1-methylnaphthalene CAS 90-12-0	170	Same as K10NAPL, I13, I12
			Isophorone CAS 78-59-1	530	Encountered and assessed during site investigation, not a priority contaminant
			Naphthalene	690	
			2-methylnaphthalene	270	
			Phenanthrene	410	
			Fluoranthene	380	
			Pyrene	310	
22.10.2010 (216017)	N/A	G14	No VOC/SVOC peaks detected		
29.10.2010 (216821)	N/A	H17	No VOC/SVOC peaks detected		
29.10.2010 (216821)	N/A	G17	No VOC/SVOC peaks detected		
01.11.2010 (216817)	30.11.2010	G10	Dibromochloromethane CAS 124-48-1	300	Risk Assessment
	N/A		Dichloromethyl phenol	1300	As for I9, H7, K10, J10, L11, H10, I10, L12, K12, K13, J11, J12, I15, I11, H13, G12
			Isophorone	7100	Encountered and assessed during site investigation, not a priority contaminant
			Benzyl Chloride (1-chloro-2-methylbenzene CAS 95-49-8)	200	
			Methylpropyl phenol	7100	
			3,3,5-trimethyl cyclohexanone	700	
01.11.2010 (216817)	N/A	G11	Dichloromethyl phenol	2300	As for I9, H7, K10, J10, L11, H10, I10, L12, K12, K13, J11, J12, I15, I11, H13, G12, G10
			Trichloro methyl benzene (trichloro toluene)	2400	Same as I9, J10, H10, I10, K13, J11, I14, I11, H13
			1-Methyl naphthalene	760	Same as K10NAPL, I13, I12, G13
			2-methyl phenol	800	Encountered and assessed during site investigation, not a priority contaminant
			Methylpropyl phenol	22000	

			2-Methylnaphthalene	1500	
			2,4,5-Trichlorophenol	360	
			Chloroform	500	
			1,2-dibromoethane	700	
			EthylBenzene	1800	
			1,4-Dichlorobenzene	700	
			1,2,3-Trichlorobenzene	2000	
01.11.2010 (216817)	30.11.2010	G15	Ethyl methyl phenol	18000	Risk Assessment
			Dimethyl naphthalene	59000	Risk Assessment
	N/A		Dichloromethyl phenol	2400	As for I9, H7, K10, J10, L11, H10, I10, L12, K12, K13, J11, J12, I15, I11, H13, G12, G10, G11
			1-Methyl naphthalene	26000	Same as K10NAPL, I13, I12, G13
			1-ethyl-3- methyl benzene (ethyl toluene)	600	As J14, H12
			Ethyltoluene	300	
			Isophorone	37000	Encountered and assessed during site investigation, not a priority contaminant
			Naphthalene	43000	
			Methylpropyl phenol	30000	
			2-Methylnaphthalene	21000	
			Phenanthrene	110000	
			Fluoranthene	69000	
			1,3,5-Trimethylbenzene	900	
			1,2,4-Trimethylbenzene	1600	
			1,2,3-Trimethylbenzene	400	
08.11.2010 (217789)	N/A	M7	No VOC/SVOC peaks detected		
08.11.2010 (217789)	N/A	M8	2-methyl phenol	11,000	Encountered and assessed during site investigation, not a priority contaminant
08.11.2010 (217793)	N/A	M6	No VOC/SVOC peaks detected		
08.11.2010 (217793)	N/A	N6	No VOC/SVOC peaks detected		
08.11.2010 (217795)	N/A	L5	No VOC/SVOC peaks detected		
08.11.2010 (217795)	N/A	M4	No VOC/SVOC peaks detected		
08.11.2010 (217797)	N/A	M5	No VOC/SVOC peaks detected		
08.11.2010 (217797)	N/A	N4	No VOC/SVOC peaks detected		
08.11.2010 (217797)	N/A	N5	No VOC/SVOC peaks detected		
08.11.2010 (217800)	N/A	M9	No VOC/SVOC peaks detected		

18.11.2010 (218834)	N/A	I6	No VOC/SVOC peaks detected		
23.11.2010 (219458)	N/A	L4	No VOC/SVOC peaks detected		
23.11.2010 (219456)	N/A	N3	No VOC/SVOC peaks detected		
20.01.2011 (224432)	N/A	F11	No VOC/SVOC peaks detected		
20.01.2011 (224432)	N/A	F12	No VOC/SVOC peaks detected		
20.01.2011 (224432)	24.01.2011	F13	Total Petroleum Hydrocarbons (C8-C14)	16000	Controlled Waters risk assessment required, Human Health risk assessment previously actioned
20.01.2011 (224432)	24.01.2011	E12	Total Petroleum Hydrocarbons (C8-C14)	28000	Controlled Waters risk assessment required, Human Health risk assessment previously actioned
	N/A		1-Ethyl-2-Methylbenzene (o-ethyl toluene) CAS 611-14-3	300	As J14, H12, G15
			1,2,4-Trimethylbenzene	700	Encountered and assessed during site investigation, not a priority contaminant
20.01.2011 (224432)	24.01.2011	E13	DDD	4100	Pesticide Risk Assessment Required.
	N/A		m/p ethyl toluene	1200	Encountered and assessed during site investigation, not a priority contaminants
			m-ethyl toluene:1-ethyl-3-methylbenzene, CAS 620-14-4		
			p-ethyl toluene: 1-ethyl-4-methylbenzene, CAS 622-96-8		
	24.01.2011		Total Petroleum Hydrocarbons (C8-C13)	73000	Controlled Waters risk assessment required, Human Health risk assessment previously actioned
	N/A		2,6-bis(1-methylpropyl)-phenol	5000	As J16, H12
			DDT	3200	Encountered and assessed during site investigation, not a priority contaminant
			4-(1-methylpropyl)phenol	2700	
			2(1-methylpropyl)-phenol	12000	
			1,2,3-trimethylbenzene	600	
			1,3,5-trimethylbenzene	1700	
			1,2,4-trimethylbenzene	3000	
			p-Isopropyltoluene	400	
24.01.2011 (224621)	25.01.2011	F15A	No VOC/SVOC peaks detected		
24.01.2011 (224621)	25.01.2011	F15B	No VOC/SVOC peaks detected		

09.02.2011 (226719)	10.02.2011	H6	No VOC/SVOC peaks detected		
09.02.2011 (226719)	10.02.2011	J5	No VOC/SVOC peaks detected		
09.02.2011 (226719)	10.02.2011	J6	No VOC/SVOC peaks detected		
17.03.2011 (230436)	21.03.2011	K5	Bis(2-ethylhexyl) maleate *CAS 142-16-5*	1,800	As L8
21.03.2011 (230436)	22.03.2011	K6	2,3-Dichlorotoluene *CAS 32768-54-0*	300	As J10, J11, H10, K13
			Bis(2-ethylhexyl) maleate *CAS 142-16-5*	2,000	As L8, K5
			Squalene *CAS 7683-64-9*	2,000	Natural organic compound found in the human body. Used in cosmetics, vaccines and steroid synthesis. Risk assessment not required.
			Glycerol tricaprylate CAS 538-28-8	4,700	Cosmetic ingredient. RisK Assessment notrequired.
28.03.2011 (231689)	29.03.2011	M10	No VOC/SVOC peaks detected		
30.03.2011 (232134)	01.04.2011	L14	No VOC/SVOC peaks detected		
31.03.2011 (232138)	24.05.2011	TB100 (J13, K12, K13)	Dimethyl nitroaniline isomer	5,400	Risk Assesment Required
			Chlorazine, CAS 580-48-3	2,400	listed as antipsychotic drug, very similar in structure to the herbicide simazine. Risk Assessment required.
	N/A		Dinoseb	57,000	As J11, K10, Already actioned
			DDD	9,300	As E13, Already actioned.
			Trietazine	8,600	Encountered and assessed during site investigation, not a priority contaminant
13.06.2011 (239403)	N/A	G16	No VOC/SVOC peaks detected		
13.06.2011 (239403)	N/A	H16	No VOC/SVOC peaks detected		
13.06.2011 (239578)	N/A	L6	No VOC/SVOC peaks detected		
13.06.2011 (239578)	N/A	L7	No VOC/SVOC peaks detected		