Environmental Monitoring Report

Reporting Period
01/11/2010-28/11/2010

Former Bayer Crop Science Site
Hauxton
Cambridgeshire

10th December 2010

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APPENDICIES

1.0 Introduction

1.1. General

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

The time period that this report represents is from the 1st of November 2010, until the 28th of November 2010.

1.2. The site

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

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

1.3. Remediation Brief and Philosophy

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

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

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

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

2.0 Monthly Progress

Week 34. Week Commencing 1st November 2010

Excavation continued in grid squares G16 and G17, removing non odorous visually clean soils and placing them in to treatment beds adjacent to the excavation. Breaking out of concrete followed by excavation preceded through grid squares G15, H16 and I16. A trail pitting exercise was conducted within these grid square to asses the depth of impact from contaminants. A number of treatment beds were relocated to release the eastern parts of the site to enable the next phase of works in this area. A trial pitting and borehole exercise was conducted along the bentonite cut-off wall to assess the integrity of the structure and the level of impact from contaminated ground adjacent. Contaminated soils resistant to biological treatment previously quarantined on site, were hauled from site under controlled conditions and disposed of at a suitable off site hazardous waste treatment facility, in total six wagon loads of recalcitrant soils left the site.

Week 35. Week Commencing 8th November 2010

Due to a number of heavy rain events during the week no further excavation was undertaken, however braking out of concrete continued through grid squares D16 to D18 and E16 to E18, concrete was stockpile to await further crushing and processing. The investigatory works on the structure and levels of contamination within the bentonite cut-off wall continued, progressing along the northeast boundary. The turning of treatment beds was also hampered due to the wet weather conditions and a number of beds were covered to prevent the infiltration of ponding rain water. Two of the remaining single storey substations was demolished to allow excavation of contaminated materials beneath them, the demolition arising were stockpiled to await crushing and processing.

Week 36. Week Commencing 15th November 2010

Breaking out of concrete was undertaken in grid squares K7 and J6, the main excavation works were undertaken in grid squares C17, D17 and E 17 removing non odours sands and gravels, this material was stockpiled and tested to asses the levels of contamination. Turning and processing of the treatment beds continued with treatment beds being selected for processing depending on their moisture levels and predominant wind direction.

Sections of the eastern boundary wall were removed using large plant under the supervision of the site manager. This was carried out due to the instability of the structure, and the wall was replaced with solid panel fencing.

Week 37. Week Commencing 22nd November 2010

Excavation of non odorous sand and gravel continued through grid squares E and F, 11 to 14, this material was formed into treatment beds adjacent to the excavation. Excavation was also undertaken in grid squares C7, D7 and E7 to an approximate depth of 1.5m removing hydrocarbon impacted soils and forming them into treatment beds within the excavation. A crusher and screener were mobilised to site and commenced crushing the recent stockpile of broken concrete, preventative measures were in place to stop dust arising from this process. Turning and processing of the treatment beds continued with treatment beds being selected for processing depending on their moisture levels and predominant wind direction.

3.0 Environmental Monitoring Summary

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

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

3.1. Odour and VOC Emissions

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

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

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

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

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

form, including some additional actions to reduce the potential of odour nuisance e.g. repositioning of mobile odour control systems.

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

- 18/11/2010 (10:00) Approximately 5m south of the eastern monitoring location a maximum intermittent PID reading of 0.2ppm was recorded, the odour was described as a moderate chemical and earthy odour, a mobile odour control unit was dispatched to the eastern parts of the site to aid in the reduction of this odour.

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

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

The results for the long term passive VOC monitoring carried out between 28/11/2010 and 25/11/2010 are pending laboratory analysis and will be submitted at a later date in a supplemental report.

3.2. Dust Fibre and Particulate Emission

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

Real time airborne dust monitoring is undertaken as a minimum twice daily by an Environmental Engineer using a 'Dustmate' dust particle monitor around the site boundary as part of the environmental monitoring schedule, results are recorded in the environmental monitoring

spreadsheet (Appendix B). The 'Dustmate' dust particle monitor will not function correctly in wet weather conditions, therefore on occasion data may be missing from the environmental monitoring spreadsheet for this reason. Dust migration is however less likely in wet weather conditions.

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 134.40µg/m^3, the average PM10 dust reading around the site is 79.17µg/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 15/10/2010 to 01/11/2010 (6 locations monitored) recorded a maximum dust deposition rate was 0.65%EAC at the west monitoring location. All other locations had a maximum dust deposition rate of 0.59%EAC, or less.

Dust monitoring undertaken from the 01/11/2010 to 12/11/2010 (5 locations monitored) recorded a maximum dust deposition rate of 2.00% EAC at the north monitoring location. All other locations had a maximum dust deposition rate of 1.91%EAC, or less.

Dust monitoring undertaken from the 12/11/2010 to 26/11/2010 (6 locations monitored) recorded a maximum dust deposition rate of 0.43% EAC at the northeast1, northeast2 and east monitoring locations. All other locations had a maximum dust deposition rate of 0.36%EAC, or less.

Dust deposition values of less than 2.5% are regarded as having a very low nuisance potential. Only when percentages rise from 2.5% – 5% EAC is dust considered to have a low nuisance causing potential. During the reported period dust, fibre and particle emissions have been low, and have not caused visual dusting off site.

3.3. Control of Mud and Debris

A pressure washer has been on site constantly to allow any maintenance or plant delivery vehicles leaving contaminated parts of the site to be washed down thoroughly first, as not to take potentially contaminated mud and debris through the clean zone and off site. The movement of vehicles between the contaminated and clean parts of the site is strictly controlled by the site management team.

3.4. Noise

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

Site operations are restricted to 8am to 6pm and site noise levels are consistently at an average acceptable low background level of 66.54dB. Exceedance's of the 80dB threshold (stipulated in the Environmental Permit deployment document) have been recorded during the monitoring period, however traffic along the A10 has been identified as the source of the slightly elevated noise levels. Data is recorded in the environmental monitoring data spreadsheet, Appendix B.

3.5. Litter

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

4.0 Surface and Ground Water Condition

4.1. Surface Water Monitoring

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

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

4.2. Surface Water Sampling and Analysis

Upstream and downstream water samples from both the River Cam (Granta) and the Riddy Brook are taken on a monthly basis. The results for samples taken on 26th November 2010 are pending and will be presented in a supplemental report.

4.3. Groundwater Level Monitoring

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

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

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

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

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

Groundwater contour plots are drawn up on a weekly basis to interpret the potential movement of the water beneath the site. Contour plots D907_116, D907_117, D907_118 and D907_119 (Appendix G) illustrate the weekly groundwater levels for the reported period.

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

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

4.4. Groundwater Sampling and Analysis

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

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 28/11/2010, sixty 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 two characterisation samples analysed contained a total of twenty one compounds / potential contaminants that had not been previously identified.

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

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

Appendix A

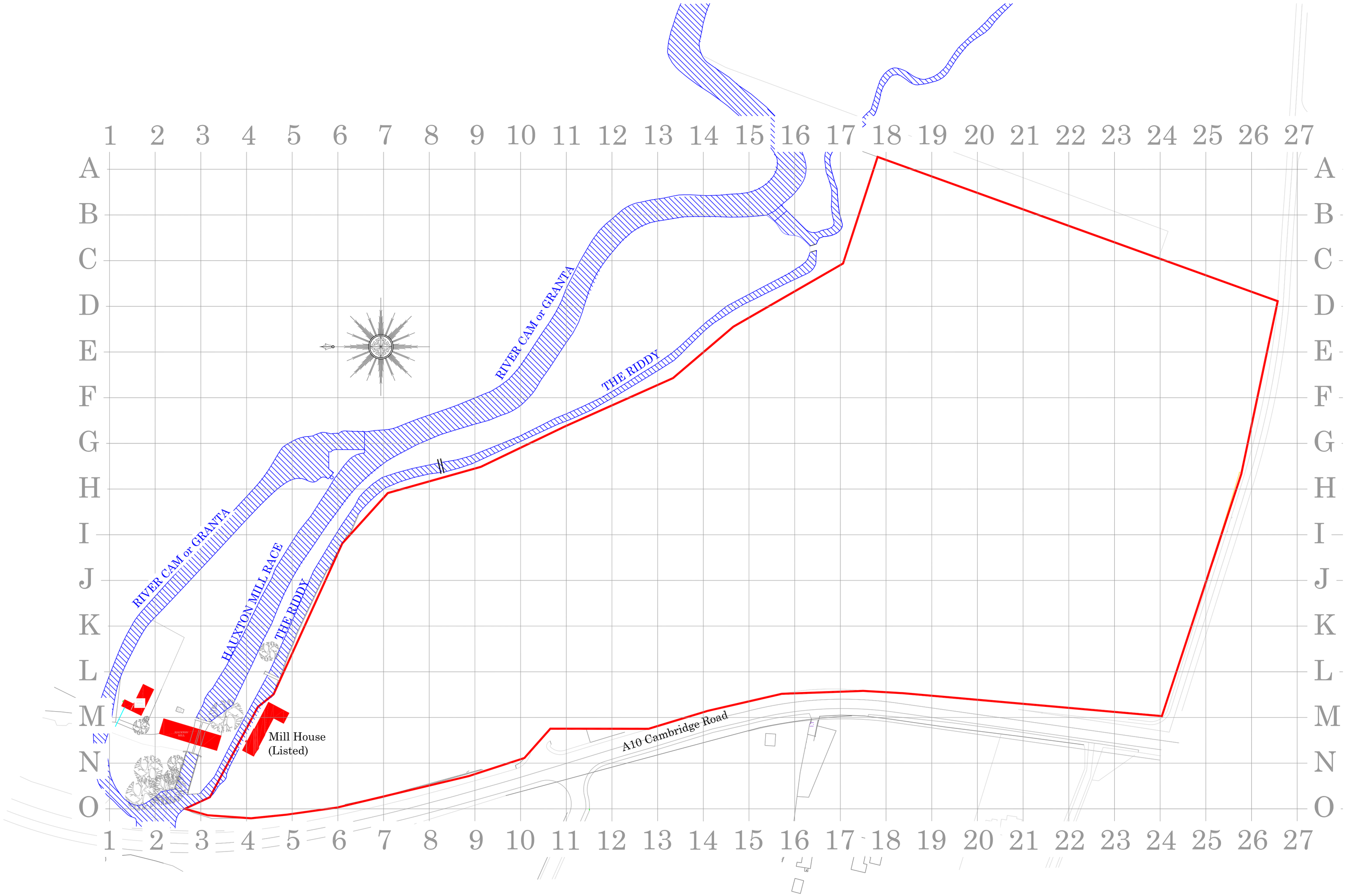
Drawings

A1

Legend

- Buildings to Remain
- Water Course
- Site Boundary

Drawing Base : Ref
LW/HAUX-002/2006



Rev.	Description	Revised By	Date
	FIRST ISSUE		21 April 2008

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Site Address:

Bayer Site
Hauxton
Cambridge

Rev:

Title: Blank Site Plan with Grid

Client: Harrow Estates

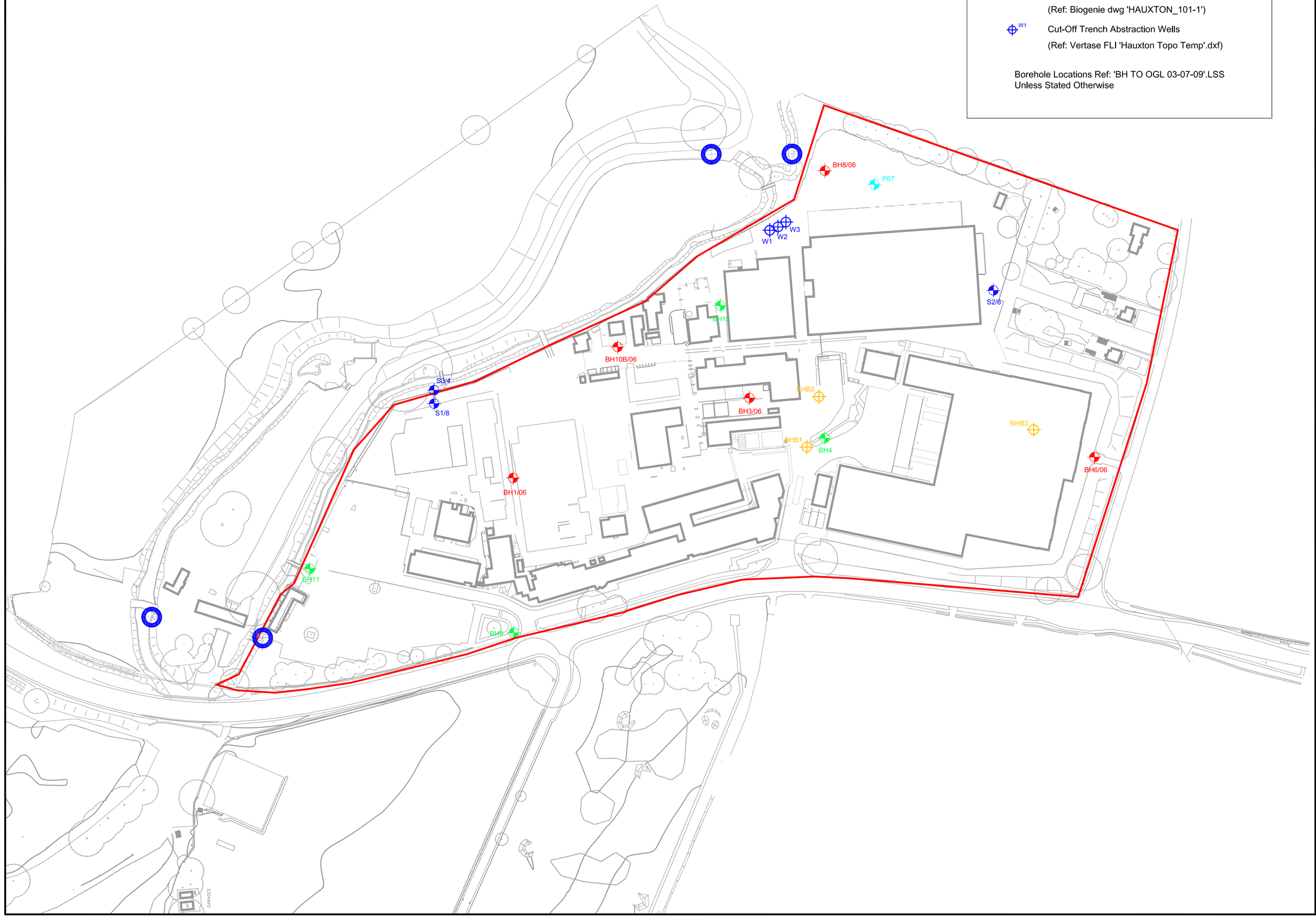
Drawn: JWH	Checked: MA	Approved: MA
Dwg: D907_07	Contract: 907BRI	Scale: 1:1000

A1

Legend

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

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

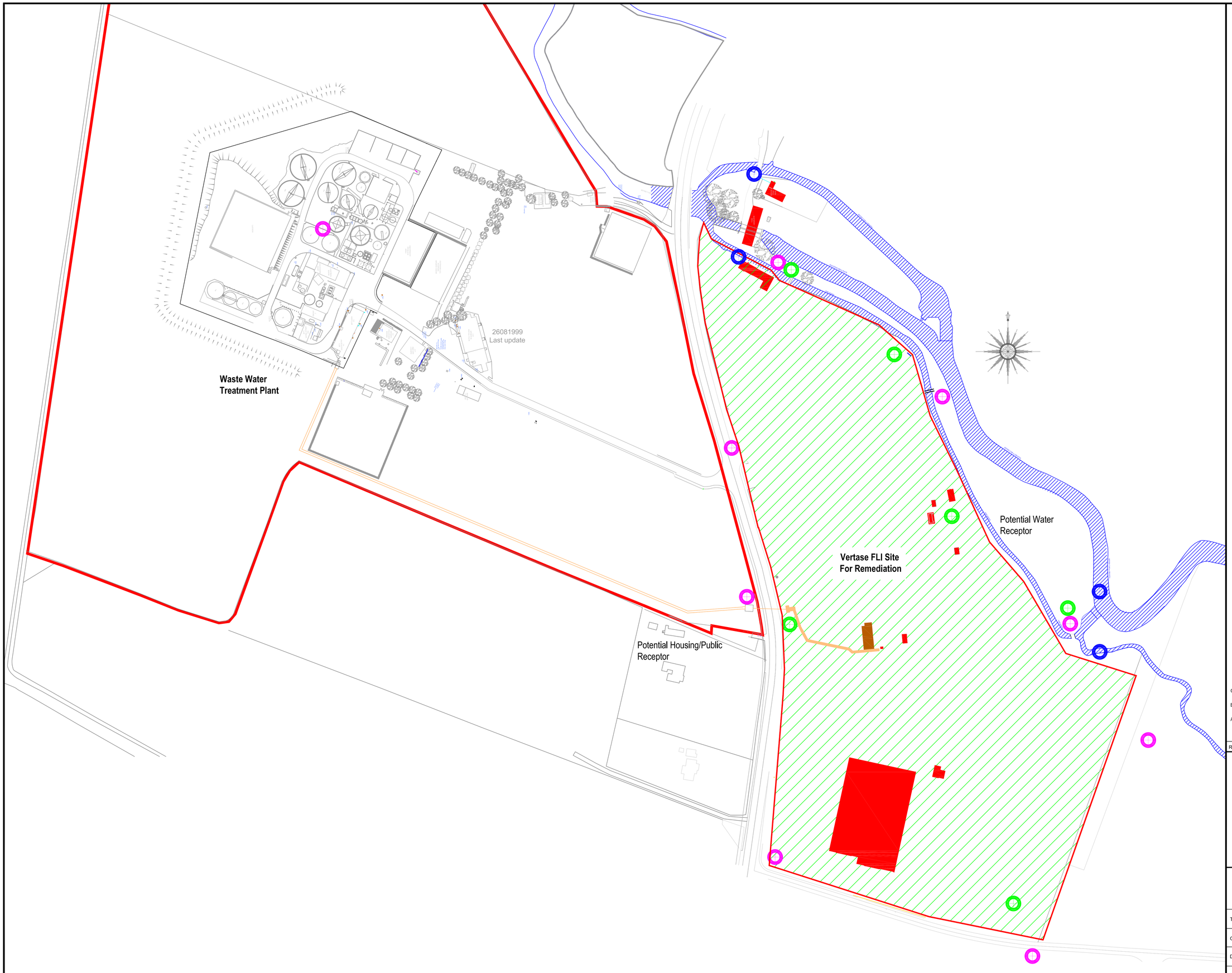
Rev: E

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

						ODOUR						DUST		NOISE	LITTER		RIDDY BROOK				METEOROLOGICAL AND ENVIRONMENTAL CONDITIONS						
Assessor	Date	Daily Activity	Boundary	Start Time	Finish Time	Detectability (Yes or No)	Intensity (1 to 9)	Quality (Description)	Hedonic Tone (-3 to+3)	Location Sensitivity (1 to 5)	Odour Source (1 to 5)	PID (ppm)	TSP	PM10	Average (dBa)	Present (Description)	Materials attracting scavengers	Inspection	Water Level (mAOD)	Complaints	Action Required	Wind Speed (1 to 9)	Wind Direction	Air Temp (C)	Description (Rain, Sun)	Cloud Cover (0 to 8)	Ground Conditions (Wet, dry)	General Notes
D Holman	01/11/2018	bed turning/forming beds	N	10.27	10.32	y	2	vegetation	0	2	5	0	201.4	133.9	62	no	no	Clear	9.219									
D Holman	01/11/2018	bed turning/forming beds	NE	10.21	10.26	y	3	odour control	-1	2	5	0	237.6	193.8	58	no	no	Clear										
D Holman	01/11/2018	bed turning/forming beds	NE1	10.15	10.20								269.8	181.5				Clear										
D Holman	01/11/2018	bed turning/forming beds	E	10.09	10.14	y	3	vegetation	0	2	5	0	198	104.5	55	no	no	Clear	9.649									
D Holman	01/11/2018	bed turning/forming beds	SE	10.03	10.08										54	no	no											
D Holman	01/11/2018	bed turning/forming beds	S	9.57	10.02	y	2	vegetation	0	3	5	0	231.5	139.4	64	no	no											
D Holman	01/11/2018	bed turning/forming beds	SW	9.51	9.56	y	3	vegetation	0	4	5	0			73	no	no											
D Holman	01/11/2018	bed turning/forming beds	W	9.45	9.50	y	2	vegetation	0	4	5	0	195	107.4	80	no	no											
D Holman	01/11/2018	bed turning/forming beds	NW	10.33	10.38	y	1	vegetation	0	2	5	0			78	no	no											
D Holman	01/11/2018	bed turning/forming beds	N	17.42	17.47	y	2	odour control	-1	2	5	0	55.3	39.4	61	no	no	Clear	9.219			1	ssi	8	clear	1	dry	
D Holman	01/11/2018	bed turning/forming beds	NE	17.36	17.41	y	1	vegetation	0	2	5	0	192.2	161.1	57	no	no	Clear										
D Holman	01/11/2018	bed turning/forming beds	NE1	17.30	17.35								231.4	143.7				Clear										
D Holman	01/11/2018	bed turning/forming beds	E	17.24	17.29	y	1	vegetation	0	2	5	0	143.2	119.7	58	no	no	Clear	9.649									
D Holman	01/11/2018	bed turning/forming beds	SE	17.18	17.23	y	1	vegetation	0	3	5	0			54	no	no											
D Holman	01/11/2018	bed turning/forming beds	S	17.12	17.17	y	1	vegetation	0	3	5	0	128.4	107.1	64	no	no											
D Holman	01/11/2018	bed turning/forming beds	SW	17.06	17.11	y	1	vegetation	0	4	5	0			74	no	no											
D Holman	01/11/2018	bed turning/forming beds	W	17.00	17.05	y	3	vegetation	0	4	5	0	100.1	176.5	79	no	no											
D Holman	01/11/2018	bed turning/forming beds	NW	17.48	17.53	y	2	vegetation	0	2	5	0			78	no	no											
D Holman	02/11/2018	bed turning/moving beds	N	10.12	10.17	y	1	vegetation	0	2	5	0	218.6	157.7	58	no	no	Clear	9.209			4	wnw	12	cloudy	8	dry	
D Holman	02/11/2018	bed turning/moving beds	NE	10.06	10.11	y	2	sweet chemical	0	2	5	0	264.2	246.6	60	no	no	Clear										
D Holman	02/11/2018	bed turning/moving beds	NE1	10.00	10.05								256.9	249.1				Clear										
D Holman	02/11/2018	bed turning/moving beds	E	9.54	9.59	y	2	general site odour and vegetation	0	2	5	0	201.9	134.4	61	no	no	Clear	9.649									
D Holman	02/11/2018	bed turning/moving beds	SE	9.48	9.53	y	1	vegetation	0	3	5	0			55	no	no											
D Holman	02/11/2018	bed turning/moving beds	S	9.42	9.47	y	1	vegetation	0	3	5	0	200	101.5	63	no	no											
D Holman	02/11/2018	bed turning/moving beds	SW	9.36	9.41	y	1	vegetation	0	4	5	0			72	no	no											
D Holman	02/11/2018	bed turning/moving beds	W	9.30	9.35	y	2	vegetation	0	4	5	0	97	76.1	77	no	no											
D Holman	02/11/2018	bed turning/moving beds	NW	10.18	10.23	y	2	vegetation	0	2	5	0			77	no	no											
D Holman	02/11/2018	bed turning/moving beds	N	16.42	16.47	y	2	manure	-1	2	5	0	245.7	157.3	66	no	no	Clear	9.209			8	ssw	13	clear	3	dry	
D Holman	02/11/2018	bed turning/moving beds	NE	16.36	16.41	y	3	chemical and earth/soil	0	2	5	0	254.4	107.1	64	no	no	Clear										
D Holman	02/11/2018	bed turning/moving beds	NE1	16.30	16.35								264.9	213.8				Clear										
D Holman	02/11/2018	bed turning/moving beds	E	16.24	16.29	y	1	manure and vegetation	0	2	5	0	172.6	132.7	62	no	no	Clear	9.649									
D Holman	02/11/2018	bed turning/moving beds	SE	16.18	16.23	y	1	manure	-1	3	5	0			54	no	no											
D Holman	02/11/2018	bed turning/moving beds	S	16.12	16.17	y	2	manure	-1	3	5	0	247.3	186.1	63	no	no											
D Holman	02/11/2018	bed turning/moving beds	SW	16.06	16.11	y	4	manure and vegetation/exhaust fumes	-1	4	5	0			74	no	no											
D Holman	02/11/2018	bed turning/moving beds	W	16.00	16.05	y	3	vegetation and manure	-1	4	5	0	241.3	214.4	79	no	no											
D Holman	02/11/2018	bed turning/moving beds	NW	16.48	16.53	y	1	vegetation	0	2	5	0			80	no	no											
D Holman	03/11/2018	bed turning/moving beds	N	9.42	9.47	y	2	vegetation	0	2	5	0	71	55.1	62	no	no	Clear	9.209			7	wsw	13	cloudy	8	dry	
D Holman	03/11/2018	bed turning/moving beds	NE	9.36	9.41	y	2	earth/soil and vegetation	0	2	5	0	216.8	138.7	59	no	no	Clear										
D Holman	03/11/2018	bed turning/moving beds	NE1	9.30	9.35								196.3	47.8				Clear										
D Holman	03/11/2018	bed turning/moving beds	E	9.24	9.29	y	1	vegetation	0	2	5	0	68	59.3	58	no	no	Clear	9.649									
D Holman	03/11/2018	bed turning/moving beds	SE	9.18	9.23	y	1	vegetation	0	3	5	0			56	no	no											
D Holman	03/11/2018	bed turning/moving beds	S	9.12	9.17	y	1	vegetation	0	3	5	0	104.1	22.6	62	no	no											
D Holman	03/11/2018	bed turning/moving beds	SW	9.06	9.11	y	2	vegetation	0	4	5	0			74	no	no											
D Holman	03/11/2018	bed turning/moving beds	W	9.00	9.05	y	3	vegetation	0	4	5	0	90.4	67.1	79	no	no											
D Holman	03/11/2018	bed turning/moving beds	NW	9.48	9.53	y	2	vegetation	0	2	5	0			78	no	no											
D Holman	03/11/2018	bed turning/moving beds	N	17.42	17.47	y	2	vegetation	0	2	5	0	143.2	97	61	No	No	Clear	9.209			4	ssw	14	clear	3	dry	
D Holman	03/11/2018	bed turning/moving beds	NE	17.36	17.41	y	2	chemical earth/soil	0	2	5	0	169.3	70.8	57	no	No	Clear										
D Holman	03/11/2018	bed turning/moving beds	NE1	17.30	17.35								178.2	101.8				Clear										
D Holman	03/11/2018	bed turning/moving beds	E	17.24	17.29	y	3	vegetation	0	2	5	0	189.4	70.4	56	no	No	Clear	9.649									
D Holman	03/11/2018	bed turning/moving beds	SE	17.18	17.23	y	1	vegetation	0	3	5	0			53	No	No											
D Holman	03/11/2018	bed turning/moving beds	S	17.12	17.17	y	2	vegetation	0	3	5	0	122.4	57	62	No	No											
D Holman	03/11/2018	bed turning/moving beds	SW	17.06	17.11	y	2	vegetation	0	4	5	0			74	No	No											
D Holman	03/11/2018	bed turning/moving beds	W	17.00	17.05	y	1	vegetation	0	4	5	0	201.6	106.5	78	No	No											
D Holman	03/11/2018	bed turning/moving beds	NW	17.48	17.53	y	2	vegetation	0	2	5	0			79	No	No											
D Holman	04/11/2018	bed turning/moving beds	N	9.52	9.57	y	2	vegetation	0	2	5	0	170.1	68.5	62	no	no	Clear	9.219			10	wsw	15	cloudy	8	dry	
D Holman	04/11/2018	bed turning/moving beds	NE	9.46	9.51	y	3	vegetation	0	2	5	0	257.7	218.1	59	no	no	Clear										
D Holman	04/11/2018	bed turning/moving beds	NE1	9.40	9.45								161.7	127.6				Clear										
D Holman	04/11/2018	bed turning/moving beds	E	9.34	9.39	y	2	vegetation and exhaust fumes	0	2	3	0	200	154.8	59	no	no	Clear	9.649									
D Holman	04/11/2018	bed turning/moving beds	SE	9.28	9.33										53	no	no											
D Holman	04/11/2018	bed turning/moving beds	S	9.22	9.27	y	1	vegetation	0	3	5	0	100.3	22.1	65	no	no											
D Holman	04/11/2018	bed turning/moving beds	SW	9.16	9.21	y	2	vegetation	0	4	5	0			76	no	no											
D Holman	04/11/2018	bed turning/moving beds	W	9.10	9.15	y	3	vegetation	0	4	5	0	175.1	89.1	80	no	no											
D Holman	04/11/2018	bed turning/moving beds	NW	9.58	10.03	y	2	vegetation	0	2	5	0			79	no	no											
D Holman	04/11/2018	bed turning/moving beds	N	16.40	16.45								94.9	87.9	74	no	no	Clear	9.219			4	sw	7	cloudy	8	dry	
D Holman	04/11/2018	bed turning/moving beds	NE	16.46	16.51	y	2	vegetation and chemical	-1	2	3	0	231.1	188.8	71	no	no	Clear										
D Holman	04/11/2018	bed turning/moving beds	NE1	16.52	16.57								155.6	41.9				Clear										
D Holman	04/11/2018	bed turning/moving beds	E	16.58	17.03	y	1	vegetation	0	2	5	0	271.2	195.4	61	no	no	Clear	9.649									
D Holman	04/11/2018	bed turning/moving beds	SE	17.04	17.09	y	1	earthy chemical	0	3	5	0			61	no	no											
D Holman	04/11/2018	bed turning/moving beds	S	17.10	17.15	y	1	vegetation	0	3	5	0	125.8	80.6	64	no	no											
D Holman	04/11/2018	bed turning/moving beds	SW	17.16	17.21	y	2	vegetation	0	4	5	0			73	no	no											
D Holman	04/11/2018	bed turning/moving beds	W	17.22	17.27	y	3	vegetation	0	4	5	0	234.1	194.8	79	no	no											
D Holman	04/11/2018	bed turning/moving beds	NW	17.28	17.33	y	2	vegetation	0	2	5	0			80	no	no											
D Holman	05/11/2018	bed turning/moving beds	N	10.00	10.05	y	1	vegetation	0	2	5	0	9.2	6.3	56	No	No	Clear	9.219			4	sw	16	cloudy	8	damp	
D Holman	05/11/2018	bed turning/moving beds	NE	10.06	10.11	y	2	chemical and earth/soil	0	2	5	0	158.7	62.6	58	no	No	Clear										
D Holman	05/11/2018	bed turning/moving beds	NE1	10.12	10.17								119	54				Clear										
D Holman	05/11/2018	bed turning/moving beds	E	10.18	10.23	y	2	vegetation	0	2	5	0	100.9	30.7	58	No	No	Clear	9.659									
D Holman	05/11/2018	bed turning/moving beds	SE	10.24	10.29	y	1	vegetation	0	3	5	0			53	no	No											
D Holman	05/11/2018	bed turning/moving beds	S	10.30	10.35	y	1	vegetation	0	3	5	0	44.6	28.1	64	No	No											
D Holman	05/11/2018	bed turning/moving beds	SW	10.36	10.41	y	2	vegetation	0	4	5	0			72	no	No											
D Holman	05/11/2018	bed turning/moving beds	W	10.42	10.47	y	3	vegetation	0	4	5	0	119.1	27.3	79	No	No											
D Holman	05/11/2018	bed turning/moving beds	NW	10.48	10.53	y	1	vegetation	0	2	5	0			79	No	No											
D Holman	05/11/2018	bed turning/moving beds	N	16.42	16.47	y	1	vegetation	0	2	5	0			68	no	No	Clear	9.219			8	wnw	9	rain	8	wet	Wet weather prevented use of Dust mate
D Holman	05/11/2018	bed turning/moving beds	NE	16.36	16.41	y	2	vegetation	0	2	5	0			62	No	No	Clear										
D Holman	05/11/2018	bed turning/moving beds	NE1	16.30	16.35													Clear										
D Holman	05/11/2018	bed turning/moving beds	E	16.24	16.29	y	3	vegetation and chlorine	0	2	3	0			53	No	No	Clear	9.659									
D Holman	05/11/2018	bed turning/moving beds	SE	16.18	16.23	y	2	chemical and earth/soil	0	3	5	0			62	No	No											
D Holman	05/11/2018	bed turning/moving beds	S	16.12	16.17	y	2	vegetation	0	3	5	0			62	No	No											
D Holman	05/11/2018	bed turning/moving beds	SW	16.06	16.11	y	1	vegetation	0	4	5	0			74	No	No											
D Holman	05/11/2018	bed turning/moving beds	W	16.00	16.05	y	2	vegetation	0	4	5	0			80	No	No											
D Holman	05/11/2018	bed turning/moving beds	NW	16.48	16.53	y	2	vegetation	0	2	5	0			79	No	No											
D Holman	08/11/2018	bed turning/moving beds	N	10.12	10.17	y	2	vegetation/burning	0	2	5	0			54	no	no	Clear	9.229			12	sse	6	rain spells/cloudy	8	wet	Wet weather prevented use of Dust mate
D Holman	08/11/2018	bed turning/moving beds	NE	10.06	10.11	y	3	vegetation	0	2	5	0			62	no	no	Clear										
D Holman	08/11/2018	bed turning/moving beds	NE1	10.00	10.05													Clear										
D Holman	08/11/2018	bed turning/moving beds	E	9.54	9.59	y	3	vegetation	0	2	5	0			56	no	no	Clear	9.659									
D Holman	08/11/2018	bed turning/moving beds	SE	9.48	9.53	y	1	vegetation	0	3	5	0			67	no	no											
D Holman	08/11/2018	bed turning/moving beds	S	9.42	9.47	y	2	vegetation	0	3	5	0			69	no	no											
D Holman	08/11/2018	bed turning/moving beds	SW	9.36	9.41	y	1	vegetation	0	4	5	0			73	no	no											
D Holman	08/11/2018	bed turning/moving beds	W	9.30	9.35	y	2	sweet chemical	0	4	5	0			77	no	no											
D Holman	08/11/2018	bed turning/moving beds	NW	10.18	10.23	y	2	vegetation	0	2	5	0			76	no	no											
D Holman	08/11/2018	bed turning/moving beds	N	17.12	17.17	y	2	vegetation	0	2	5	0			54	no	no	Clear	9.229			12	sse	5	rain	8	wet	Wet weather prevented use of Dust mate
D Holman	08/11/2018	bed turning/moving beds	NE	17.06	17.11	y	1	vegetation	0	2	5	0			58	no	no	Clear										
D Holman	08/11/2018	bed turning/moving beds	NE1	17.00	17.05													Clear										
D Holman	08/11/2018	bed turning/moving beds	E	16.54	16.59	y	2	vegetation	0	2	5	0			59	no	no	Clear	9.659									
D Holman	08/11/2018	bed turning/moving beds	SE	16.48	16.53	y	1	vegetation	0	3	5	0			61	no	no											
D Holman	08/11/2018	bed turning/moving beds	S	16.42	16.47	y	1	vegetation	0	3	5	0			65	no	no											
D Holman	08/11/2018	bed turning/moving beds	SW	16.36	16.41	y	1	vegetation	0	4	5	0			75	no	no											
D Holman	08/11/2018	bed turning/moving beds	W	16.30	16.35	y	3	odour control	1	4	5	0			79	no	no											
D Holman	08/11/2018	bed turning/moving beds	NW	17.18	17.23	y	1	vegetation	0	2	5	0			79	no	no											
D Holman	09/11/2018	bed turning/moving beds/breaking concrete	N	10.12	10.17	y	1	vegetation	0	2	5	0	84.3	15.6	66	no	no	Clear	9.229			9	ne	8	cloudy	8	damp	
D Holman	09/11/2018	bed turning/moving beds/breaking concrete	NE	10.06	10.11	y	1	vegetation and smoke	0	2	5	0	138.9	61.3	65	no	no	Clear										
D Holman	09/11/2018	bed turning/moving beds/breaking concrete	NE1	10.00	10.05								18.6	17.3				Clear										
D Holman	09/11/2018	bed turning/moving beds/breaking concrete	E	9.54	9.59	y	3	vegetation	0	2	5	0	88.8	33.2	58	no	no	Clear	9.659									
D Holman	09/11/2018	bed turning/moving beds/breaking concrete	SE	9.48	9.53	y	1	vegetation	0	3	5	0			56	no	no											
D Holman	09/11/2018	bed turning/moving beds/breaking concrete	S	9.42	9.47	y	1	vegetation	0	3	5	0	170.8	14.2	63	no	no											
D Holman	09/11/2018	bed turning/moving beds/breaking concrete	SW	9.36	9.41	y	2	odour control	1	4	5	0			73	no	no											
D Holman	09/11/2018	bed turning/moving beds/breaking concrete	W	9.30	9.35	y	1	vegetation	0	4	5	0	95.3	19.2	79	no	no											
D Holman	09/11/2018	bed turning/moving beds/breaking concrete	NW	10.18	10.23	y	2	vegetation	0	2	5	0			78	no	no											
D Holman	09/11/2018	bed turning/moving beds/breaking concrete	N	17.42	17.47	y	1	vegetation	0	2	5	0	35.3	19.6	61	no	no	Clear	9.229			2	N	6	clear	2	damp	
D Holman	09/11/2018	bed turning/moving beds/breaking concrete	NE	17.36	17.41	y	1	vegetation	0	2	5	0	23.6	18.2	63	no	no	Clear										
D Holman	09/11/2018	bed turning/moving beds/breaking concrete	NE1	17.30	17.35								46.3	31.3				Clear										
D Holman	09/11/2018	bed turning/moving beds/breaking concrete	E	17.24	17.29	y	2	vegetation	0	2	5	0	143.4	52.5	65	no	no	Clear	9.659									
D Holman	09/11/2018	bed turning/moving beds/breaking concrete	SE	17.18	17.23	y	2	vegetation	0	3	5	0			59	no	no											
D Holman	09/11/2018	bed turning/moving beds/breaking concrete	S	17.12	17.17	y	2	vegetation	0	3	5	0	74.5	7.3	62	no	no											
D Holman	09/11/2018	bed turning/moving beds/breaking concrete	SW	17.06	17.11	y	2	vegetation and odour control	0	4	5	0			74	no	no											
D Holman	09/11/2018	bed turning/moving beds/breaking concrete	W	17.00	17.05	y	2	odour control	1	4	5	0	62.6	50.8	79	no	no											
D Holman	09/11/2018	bed turning/moving beds/breaking concrete	NW	17.48	17.53	y	2	vegetation	0	2	5	0			80	no	no											
D Holman	10/11/2018	bed turning/moving beds/breaking concrete	N	10.42	10.47	y	1	vegetation	0	2	5	0	173.9	49.4	58	no	no	Clear	9.219			8	NW	5	cloudy	8	damp	slight odour between NE and NE1 2/9 0.0ppm hydrocarbon odou
D Holman	10/11/2018	bed turning/moving beds/breaking concrete	NE	10.36	10.41	y	1	vegetation	0	2	5	0	76.7	50	62	no	no	Clear										
D Holman	10/11/2018	bed turning/moving beds/breaking concrete	NE1	10.30	10.35								184.6	113.6				Clear										
D Holman	10/11/2018	bed turning/moving beds/breaking concrete	E	10.24	10.29	y	3	vegetation	0	2	5	0	86.8	45.6	61	no	no	Clear	9.649									
D Holman	10/11/2018	bed turning/moving beds/breaking concrete	SE	10.18	10.23	y	2	soil/earth and vegetation	0	3	5	0			56	no	no											
D Holman	10/11/2018	bed turning/moving beds/breaking concrete	S	10.12	10.17	y	1	vegetation and soil/earth	0	3	5	0	122.3	64.3	65	no	no											
D Holman	10/11/2018	bed turning/moving beds/breaking concrete	SW	10.06	10.11	y	1	vegetation and exhaust fumes	0	4	5	0			75	no	no											
D Holman	10/11/2018	bed turning/moving beds/breaking concrete	W	10.00	10.05	y	1	vegetation	0	4	5	0	89.3	79.5	80	no	no											
D Holman	10/11/2018	bed turning/moving beds/breaking concrete	NW	10.48	10.53	y	3	vegetation	0	2	5	0			81	no	no											
D Holman	10/11/2018	bed turning/moving beds/breaking concrete	N	16.30	16.35	y	1	vegetation	0	2	5	0	87.1	46	59	no	no	Clear	9.219			2	wnw	4	clear	2	dry	
D Holman	10/11/2018	bed turning/moving beds/breaking concrete	NE	16.36	16.41	y	1	sweet chemical	0	2	5	0	161.6	10.7	65	no	no	Clear										
D Holman	10/11/2018	bed turning/moving beds/breaking concrete	NE1	16.42	16.47								188.8	117.8				Clear										
D Holman	10/11/2018	bed turning/moving beds/breaking concrete	E	16.48	16.53	y	2	odour control	1	2	5	0	53.6	43	61	no	no	Clear	9.649									
D Holman	10/11/2018	bed turning/moving beds/breaking concrete	SE	16.54	16.59	y	2	odour control	1	3	5	0			57	no	no											
D Holman	10/11/2018	bed turning/moving beds/breaking concrete	S	17.00	17.05	y	1	vegetation	0	3	5	0	42.2	28.6	65	no	no											
D Holman	10/11/2018	bed turning/moving beds/breaking concrete	SW	17.06	17.11	y	1	vegetation	0	4	5	0			74	no	no											
D Holman	10/11/2018	bed turning/moving beds/breaking concrete	W	17.12	17.17	y	2	vegetation	0	4	5	0	151.1	17.2	80	no	no											
D Holman	10/11/2018	bed turning/moving beds/breaking concrete	NW	17.18	17.23	y	1	vegetation	0	2	5	0			80	no	no											
M Absobrook	11/11/2018	excavating in grids, breaking out concrete only	N	9.34	9.39	y			0	2					70.1	yes - plastic	no	clear	9.219		collected liter	12	S	10	rain/wind	8	wet	Wet weather prevented use of Dust mate and PID

M Allsobrook	11/11/2010	excavating in grids, breaking out concrete only	NE	9.41	9.46	y	2	odour control and vegetation	1	2	3				73.1	no	no	clear										
M Allsobrook	11/11/2010	excavating in grids, breaking out concrete only	NE1	9.48	9.50													clear										
M Allsobrook	11/11/2010	excavating in grids, breaking out concrete only	E	9.52	9.57	y	3	vegetation	0	2	1				36.6	no	no	clear	9.649									
M Allsobrook	11/11/2010	excavating in grids, breaking out concrete only	SE	9.58	10.03	y	2	wet vegetation	-1	3	1				64	no	no											
M Allsobrook	11/11/2010	excavating in grids, breaking out concrete only	S	10.05	10.10	n				3					44.9	no	no											
M Allsobrook	11/11/2010	excavating in grids, breaking out concrete only	SW	10.12	10.17	y	3	traffic fumes	-1	4	1				77.4	no	no											
M Allsobrook	11/11/2010	excavating in grids, breaking out concrete only	W	10.18	10.23	y	3	traffic and odour control	0	4	2				77.3	no	no											
M Allsobrook	11/11/2010	excavating in grids, breaking out concrete only	NW	10.25	10.30	n				2						no	no											
D Holman	11/11/2010	breaking concrete/moving beds	N	17.42	17.47	y	1	vegetation	0	2	1	0			65	no	No	clear	9.219			15	w	10	wind cloudy	8	wet	Wet weather prevented use of Dust mate
D Holman	11/11/2010	breaking concrete/moving beds	NE	17.36	17.41	y	2	vegetation and odour control	1	2	3	0			68	no	No	clear										
D Holman	11/11/2010	breaking concrete/moving beds	NE1	17.30	17.35													Clear										
D Holman	11/11/2010	breaking concrete/moving beds	E	17.24	17.29	y	2	earth/soil and vegetation	0	2	3	0			66	no	no	Clear	9.649									
D Holman	11/11/2010	breaking concrete/moving beds	SE	17.18	17.23	y	1	vegetation	0	3	1	0			67	no	no											
D Holman	11/11/2010	breaking concrete/moving beds	S	17.12	17.17	y	1	vegetation	0	3	1	0			64	no	no											
D Holman	11/11/2010	breaking concrete/moving beds	SW	17.06	17.11	y	1	vegetation and exhaust fumes	0	4	1	0			76	no	no											
D Holman	11/11/2010	breaking concrete/moving beds	W	17.00	17.05	y	2	vegetation	0	4	1	0			79	no	no											
D Holman	11/11/2010	breaking concrete/moving beds	NW	17.48	17.53	y	2	vegetation	0	2	1	0			80	no	no											
D Holman	12/11/2010	bed turning/moving beds/breaking concrete	N	10.02	10.07	y	2	vegetation	0	2	1	0	183.7	124.6	59	no	no	Clear	9.219			8	w	12	sunny	3	dry	
D Holman	12/11/2010	bed turning/moving beds/breaking concrete	NE	9.56	10.01	y	2	vegetation	0	2	1	0	270.7	176.4	65	no	no	Clear										
D Holman	12/11/2010	bed turning/moving beds/breaking concrete	NE1	9.50	9.55								160.8	124				Clear										
D Holman	12/11/2010	bed turning/moving beds/breaking concrete	E	9.44	9.49	y	2	vegetation	0	2	1	0	173.3	96.9	72	no	no	Clear	9.659									
D Holman	12/11/2010	bed turning/moving beds/breaking concrete	SE	9.38	9.43	y	1	vegetation	0	3	1	0			62	no	no											
D Holman	12/11/2010	bed turning/moving beds/breaking concrete	S	9.32	9.37	y	2	vegetation	0	3	1	0	199.4	81.7	63	no	no											
D Holman	12/11/2010	bed turning/moving beds/breaking concrete	SW	9.26	9.31	y	1	vegetation	0	4	1	0			77	no	no											
D Holman	12/11/2010	bed turning/moving beds/breaking concrete	W	9.20	9.25	y	1	vegetation	0	4	1	0	226.4	204.3	78	no	no											
D Holman	12/11/2010	bed turning/moving beds/breaking concrete	NW	10.08	10.13	y	1	vegetation	0	2	1	0			77	no	no											
D Holman	12/11/2010	bed turning/breaking concrete	N	16.42	16.47	y	2	vegetation	0	2	1	0			66	no	no	Clear	9.219			8	wsw	10	rain	8	damp	Wet weather prevented use of Dust mate
D Holman	12/11/2010	bed turning/breaking concrete	NE	16.36	16.41	y	2	vegetation	0	2	1	0			71	no	no	Clear										
D Holman	12/11/2010	bed turning/breaking concrete	NE1	16.30	16.35													Clear										
D Holman	12/11/2010	bed turning/breaking concrete	E	16.24	16.29	y	3	odour control and vegetation	0	2	3	0			68	no	no	Clear	9.659									
D Holman	12/11/2010	bed turning/breaking concrete	SE	16.18	16.23	y	2	vegetation	0	3	1	0			65	no	no											
D Holman	12/11/2010	bed turning/breaking concrete	S	16.12	16.17	y	1	vegetation	0	3	1	0			66	no	no											
D Holman	12/11/2010	bed turning/breaking concrete	SW	16.06	16.11	y	1	vegetation	0	4	1	0			76	no	no											
D Holman	12/11/2010	bed turning/breaking concrete	W	16.00	16.05	y	2	vegetation	0	4	1	0			79	no	no											
D Holman	12/11/2010	bed turning/breaking concrete	NW	16.48	16.53	y	2	vegetation	0	2	1	0			80	no	no											
D Holman	15/11/2010	bed turning/moving beds	N	10.12	10.17	y	1	vegetation	0	2	1	0	124.8	49.4	53	No	No	Clear	9.219			0.5	S	1	sunny, cold	2	damp	
D Holman	15/11/2010	bed turning/moving beds	NE	10.06	10.11	y	1	vegetation	0	2	1	0	243.7	103.6	65	No	No	Clear										
D Holman	15/11/2010	bed turning/moving beds	NE1	10.00	10.05								201.6	139.8				Clear										
D Holman	15/11/2010	bed turning/moving beds	E	9.54	9.59	y	2	vegetation	0	2	1	0	147.3	130.5	74	No	No	Clear	9.659									
D Holman	15/11/2010	bed turning/moving beds	SE	9.48	9.53	y	1	vegetation	0	3	1	0			57	No	No											
D Holman	15/11/2010	bed turning/moving beds	S	9.42	9.47	y	2	vegetation	0	3	1	0	39.6	23	63	No	No											
D Holman	15/11/2010	bed turning/moving beds	SW	9.36	9.41	y	1	vegetation	0	4	1	0			73	No	No											
D Holman	15/11/2010	bed turning/moving beds	W	9.30	9.35	y	1	vegetation and exhaust fumes	0	4	1	0	92.7	20.3	77	No	No											
D Holman	15/11/2010	bed turning/moving beds	NW	10.18	10.23	y	2	vegetation	0	2	1	0			79	No	No											
D Holman	15/11/2010	bed turning/clearing broken concrete	N	17.42	17.47	n				2		0			58	No	No	Clear	9.219			0.5	sw	2	cold, damp	0	damp	Wet weather prevented use of Dust mate
D Holman	15/11/2010	bed turning/clearing broken concrete	NE	17.36	17.41	y	1	vegetation	0	2	1	0			59	No	No	Clear										
D Holman	15/11/2010	bed turning/clearing broken concrete	NE1	17.30	17.35													Clear										
D Holman	15/11/2010	bed turning/clearing broken concrete	E	17.24	17.29	y	1	vegetation	0	2	1	0			64	no	no	Clear	9.659									
D Holman	15/11/2010	bed turning/clearing broken concrete	SE	17.18	17.23	n				3		0			58	no	no											
D Holman	15/11/2010	bed turning/clearing broken concrete	S	17.12	17.17	n				3		0			64	no	no											
D Holman	15/11/2010	bed turning/clearing broken concrete	SW	17.06	17.11	y	1	vegetation	0	4	1	0			76	no	no											
D Holman	15/11/2010	bed turning/clearing broken concrete	W	17.00	17.05	y	1	vegetation	0	4	1	0			80	no	no											
D Holman	15/11/2010	bed turning/clearing broken concrete	NW	17.48	17.53	y	2	vegetation	0	2	1	0			80	no	no											
D Holman	16/11/2010	bed turning/moving beds	N	10.42	10.47	y	1	vegetation	0	2	1	0	146.2	64.4	59	no	no	Clear	9.229			0.5	ssw	12	sunny	0	damp	
D Holman	16/11/2010	bed turning/moving beds	NE	10.36	10.41	y	1	vegetation	0	2	1	0	86.3	63.2	58	no	no	Clear										
D Holman	16/11/2010	bed turning/moving beds	NE1	10.30	10.35								138.1	89.4				Clear										
D Holman	16/11/2010	bed turning/moving beds	E	10.24	10.29	y	2	sweet chemical and odour control	0	2	5	0	131.6	110.4	63	no	no	Clear	9.659									
D Holman	16/11/2010	bed turning/moving beds	SE	10.18	10.23	y	1	vegetation	0	3	1	0			59	no	no											
D Holman	16/11/2010	bed turning/moving beds	S	10.12	10.17	n				3		0	30	22.3	63	no	no											
D Holman	16/11/2010	bed turning/moving beds	SW	10.06	10.11	y	1	vegetation	0	4	1	0			76	no	no											
D Holman	16/11/2010	bed turning/moving beds	W	10.00	10.05	y	1	vegetation	0	4	1	0	66.6	41.6	79	no	no											
D Holman	16/11/2010	bed turning/moving beds	NW	10.48	10.53	y	1	vegetation and odour control	0	2	3	0			78	no	no											
D Holman	16/11/2010	bed turning/moving beds	N	16.42	16.47	y	1	vegetation	0	2	1	0	163.6	90.6	56	no	no	Clear	9.229			0.5	se	7	cloudy cold	0	damp	
D Holman	16/11/2010	bed turning/moving beds	NE	16.36	16.41	y	1	vegetation	0	2	1	0	88.1	74.9	57	no	no	Clear										
D Holman	16/11/2010	bed turning/moving beds	NE1	16.30	16.35								118.2	24.6				Clear										
D Holman	16/11/2010	bed turning/moving beds	E	16.24	16.29	y	1	vegetation	0	2	1	0	277.4	49.3	65	no	no	Clear	9.659									
D Holman	16/11/2010	bed turning/moving beds	SE	16.18	16.23	y	2	vegetation	0	3	1	0			59	no	no											
D Holman	16/11/2010	bed turning/moving beds	S	16.12	16.17	y	2	vegetation	0	3	1	0	98.8	41.3	64	no	no											
D Holman	16/11/2010	bed turning/moving beds	SW	16.06	16.11	n				4		0			73	no	no											
D Holman	16/11/2010	bed turning/moving beds	W	16.00	16.05	y	1	vegetation	0	4	1	0	200.8	79.8	79	no	no											
D Holman	16/11/2010	bed turning/moving beds	NW	16.48	16.53	y	1	odour control	1	2	5	0			79	no	no											
D Holman	17/11/2010	bed turning/moving beds	N	10.42	10.47	y	1	vegetation	0	2	1	0	56.5	37.8	59	no	no	Clear	9.209			5	se	6	overcast	8	dry	
D Holman	17/11/2010	bed turning/moving beds	NE	10.36	10.41	y	1	vegetation	0	2	1	0	140.9	77.1	56	no	no	Clear										
D Holman	17/11/2010	bed turning/moving beds	NE1	10.30	10.35								42.9	32.1				Clear										
D Holman	17/11/2010	bed turning/moving beds	E	10.24	10.29	y	1	vegetation	0	2	1	0	161.9	75.3	58	no	no	Clear	9.649									
D Holman	17/11/2010	bed turning/moving beds	SE	10.18	10.23	n				3		0			59	no	no											
D Holman	17/11/2010	bed turning/moving beds	S	10.12	10.17	y	1	vegetation	0	3	1	0	63	31.3	61	no	no											
D Holman	17/11/2010	bed turning/moving beds	SW	10.06	10.11	y	1	vegetation	0	4	1	0			73	no	no											
D Holman	17/11/2010	bed turning/moving beds	W	10.00	10.05	y	2	vegetation sweet chemical	0	4	3	0	42.3	33.3	79	no	no											
D Holman	17/11/2010	bed turning/moving beds	NW	10.48	10.53	y	1	odour control and vegetation	0	2	3	0			80	no	no											
D Holman	17/11/2010	excavating in grids E17/bed turning/bed moving	N	16.30	16.35	y	1	vegetation	0	2	1	0	64.8	40.2	62	no	no	clear	9.209			7	sse	6	cloudy cold	8	dry	
D Holman	17/11/2010	excavating in grids E17/bed turning/bed moving	NE	16.36	16.41	y	1	vegetation	0	2	1	0	41.6	38	68	no	no	clear										
D Holman	17/11/2010	excavating in grids E17/bed turning/bed moving	NE1	16.42	16.47								61.7	55.8				clear										
D Holman	17/11/2010	excavating in grids E17/bed turning/bed moving	E	16.48	16.53	y	2	vegetation	0	2	1	0	28.1	18.9	68	no	no	clear	9.649									
D Holman	17/11/2010	excavating in grids E17/bed turning/bed moving	SE	16.54	16.59	y	1	vegetation	0	3	1	0			56	no	no											
D Holman	17/11/2010	excavating in grids E17/bed turning/bed moving	S	17.00	17.05	y	1	vegetation	0	3	1	0	61.2	52.1	63	no	no											
D Holman	17/11/2010	excavating in grids E17/bed turning/bed moving	SW	17.06	17.11	y	1	vegetation	0	4	1	0			73	no	no											
D Holman	17/11/2010	excavating in grids E17/bed turning/bed moving	W	17.12	17.17	y	2	sweet chemical	0	4	5	0	55.8	40.1	79	no	no											
D Holman	17/11/2010	excavating in grids E17/bed turning/bed moving	NW	17.18	17.23	y	1	vegetation	0	2	1	0			78	no	no											
D Holman	18/11/2010	excavating in grids E17/bed turning/bed moving	N	10.12	10.17	y	1	vegetation	0	2	1	0	101.2	32.4	52	no	no	clear	9.209			4	sse	5	sun cold	1	damp	chemical earth odour 5m south of E location 5/9 0.2ppm
D Holman	18/11/2010	excavating in grids E17/bed turning/bed moving	NE	10.06	10.11	y	2	exhaust fumes and vegetation	0	2	3	0	155.8	130.8	53	no	no	clear										
D Holman	18/11/2010	excavating in grids E17/bed turning/bed moving	NE1	10.00	10.05								75.1	47.9				clear										
D Holman	18/11/2010	excavating in grids E17/bed turning/bed moving	E	9.54	9.59	y	3	chemical earth	-1	2	5	0	225	181.7	62	no	no	clear	9.649									
D Holman	18/11/2010	excavating in grids E17/bed turning/bed moving	SE	9.48	9.53	y	1	earth vegetation	0	3	1	0			54	no	no											
D Holman	18/11/2010	excavating in grids E17/bed turning/bed moving	S	9.42	9.47	y	1	vegetation	0	3	1	0	117.1	114.2	64	no	no											
D Holman	18/11/2010	excavating in grids E17/bed turning/bed moving	SW	9.36	9.41	y	1	vegetation	0	4	1	0			74	no	no											
D Holman	18/11/2010	excavating in grids E17/bed turning/bed moving	W	9.30	9.35	y	1	vegetation	0	4	1	0	59.3	22	79	no	no											
D Holman	18/11/2010	excavating in grids E17/bed turning/bed moving	NW	10.18	10.23	y	2	vegetation	0	2	1	0			79	no	no											
D Holman	18/11/2010	excavating in grids E14/bed turning/bed moving	N	16.42	16.47	y	2	vegetation	0	2	1	0	69.2	52	58	no	no	clear	9.209			4	ese	7	overcast rain showers	8	damp	slight earthy chemical odour between NE and N 3/9 0.0ppm
D Holman	18/11/2010	excavating in grids E14/bed turning/bed moving	NE	16.36	16.41	y	1	vegetation	0	2	1	0	48.5	37.2	63	no	no	clear										
D Holman	18/11/2010	excavating in grids E14/bed turning/bed moving	NE1	16.30	16.35								69.8	46.1				clear										
D Holman	18/11/2010	excavating in grids E14/bed turning/bed moving	E	16.24	16.29	y	2	vegetation	0	2	1	0	68.3	26.5	66	no	no	clear	9.649									
D Holman	18/11/2010	excavating in grids E14/bed turning/bed moving	SE	16.18	16.23	n				3		0			54	no	no											
D Holman	18/11/2010	excavating in grids E14/bed turning/bed moving	S	16.12	16.17	y	1	vegetation	0	3	1	0	37.4	23.2	62	no	no											
D Holman	18/11/2010	excavating in grids E14/bed turning/bed moving	SW	16.06	16.11	y	1	vegetation	0	4	1	0			72	no	no											
D Holman	18/11/2010	excavating in grids E14/bed turning/bed moving	W	16.00	16.05	y	2	vegetation	0	4	1	0	47.5	30.1	77	no	no											
D Holman	18/11/2010	excavating in grids E14/bed turning/bed moving	NW	16.48	16.53	y	1	vegetation	0	2	1	0			78	no	no											
D Holman	19/11/2010	excavating in grids E17/bed turning	N	9.42	9.47	y	1	vegetation	0	2	1	0	200.1	156.5	61	no	no	Clear	9.219			1	se	9	cloudy	8	dry	
D Holman	19/11/2010	excavating in grids E17/bed turning	NE	9.36	9.41	y	3	vegetation	0	2	1	0	88.5	66.7	59	no	no	Clear										
D Holman	19/11/2010	excavating in grids E17/bed turning	NE1	9.30	9.35								113	108.9				Clear										
D Holman	19/11/2010	excavating in grids E17/bed turning	E	9.24	9.29	y	2	vegetation	0	2	1	0	103	58	65	no	no	Clear	9.659									
D Holman	19/11/2010	excavating in grids E17/bed turning	SE	9.18	9.23	y	2	vegetation	0	3	1	0			57	no	no											
D Holman	19/11/2010	excavating in grids E17/bed turning	S	9.12	9.17	y	1	vegetation	0	3	1	0	265.5	120.3	63	no	no											
D Holman	19/11/2010	excavating in grids E17/bed turning	SW	9.06	9.11	y	2	vegetation	0	4	1	0			75	no	no											
D Holman	19/11/2010	excavating in grids E17/bed turning	W	9.00	9.05	y	1	vegetation	0	4	1	0	175.9	85	79	no	no											
D Holman	19/11/2010	excavating in grids E17/bed turning	NW	9.48	9.53	y	2	earthy chemical and vegetation	0	2	3	0			80	no	no											
D Holman	19/11/2010	excavating in grids E14/bed turning/moving beds	N	16.12	16.17	y	1	vegetation	0	2	1	0			57	no	no	Clear	9.219			0.5	se	6	foggy	8	damp	Wet weather prevented use of Dust mate
D Holman	19/11/2010	excavating in grids E14/bed turning/moving beds	NE	16.06	16.11	y	1	vegetation	0	2	1	0			53	no	no	Clear										
D Holman	19/11/2010	excavating in grids E14/bed turning/moving beds	NE1	16.00	16.05													Clear										
D Holman	19/11/2010	excavating in grids E14/bed turning/moving beds	E	15.54	15.59	y	1	vegetation	0	2	1	0			56	no	no	Clear	9.659									
D Holman	19/11/2010	excavating in grids E14/bed turning/moving beds	SE	15.48	15.53	n				3		0			58	no	no											
D Holman	19/11/2010	excavating in grids E14/bed turning/moving beds	S	15.42	15.47	n				3		0			63	no	no											
D Holman	19/11/2010	excavating in grids E14/bed turning/moving beds	SW	15.36	15.41	y	1	vegetation	0	4	1	0			74	no	no											
D Holman	19/11/2010	excavating in grids E14/bed turning/moving beds	W	15.30	15.35	y	1	vegetation	0	4	1	0			78	no	no											
D Holman	19/11/2010	excavating in grids E14/bed turning/moving beds	NW	16.18	16.23	y	1	vegetation and odour control	0	2	3	0			79	no	no											
D Holman	22/11/2010	bed turning/moving beds	N	10.07	10.12	y	1	vegetation	0	2	1	0	73	64.2	56	no	no	Clear	9.219						cloudy	8	damp	on site weather monitor not working
D Holman	22/11/2010	bed turning/moving beds	NE	10.01	10.06	y	3	earthy/chemical	0	2	5	0	279.1	74.5	58	no	no	Clear										
D Holman	22/11/2010	bed turning/moving beds	NE1	9.55	10.00								184	110.7				Clear										
D Holman	22/11/2010	bed turning/moving beds	E	9.49	9.59	y	3	vegetation	0	2	1	0	220.2	71.5	66	no	no	Clear	9.659									
D Holman	22/11/2010	bed turning/moving beds	SE	9.43	9.48	y	2	vegetation	0	3	1	0			57	no	no											
D Holman	22/11/2010	bed turning/moving beds	S	9.37	9.42	y	1	vegetation	0	3	1	0	140.3	103.4	62	no	no											
D Holman	22/11/2010	bed turning/moving beds	SW	9.31	9.36	y	2	vegetation and sweet chemical	0	4	3	0			74	no	no											
D Holman	22/11/2010	bed turning/moving beds	W	9.25	9.30	y	3	vegetation	0	4	1	0	207.8	103.3	77	no	no											
D Holman	22/11/2010	bed turning/moving beds	NW	10.13	10.18	y	2	vegetation and exhaust fumes	0	2	1	0			76	no	no											
D Holman	22/11/2010	bed turning/moving beds	N	17.12	17.17	y	2	vegetation	0	2	1	0			58	no	no	Clear	9.219						cloudy	6	damp	On site weather station frozen, not working,
D Holman	22/11/2010	bed turning/moving beds	NE	17.06	17.11	y	2	vegetation	0	2	1	0			62	no	no	Clear										Wet weather prevented use of Dust mate
D Holman	22/11/2010	bed turning/moving beds	NE1	17.00	17.05													Clear										
D Holman	22/11/2010	bed turning/moving beds	E	16.54	16.59	y	3	vegetation	0	2	1	0			55	no	no	Clear	9.659									
D Holman	22/11/2010	bed turning/moving beds	SE	16.48	16.53	y	2	vegetation	0	3	1	0			53	no	no											
D Holman	22/11/2010	bed turning/moving beds	S	16.42	16.47	y	2	vegetation and exhaust fumes	0	3	1	0			63	no	no											
D Holman	22/11/2010	bed turning/moving beds	SW	16.36	16.41	y	2	odour control	1	4	5	0			74	no	no											
D Holman	22/11/2010	bed turning/moving beds	W	16.30	16.35	y	3	odour control	1	4	5	0			81	no	no											
D Holman	22/11/2010	bed turning/moving beds	NW	17.18	17.23	y	2	vegetation	0	2	1	0			80	no	no											
D Holman	23/11/2010	bed turning/concrete crushing/moving beds	N	10.12	10.17	y	1	vegetation	0	2	1	0	148.8	47.4	55	no	no	Clear	9.219						overcast sunny spells	6	damp	on site weather monitor not working, slight odour control detected around S emergency exit 2/9 0.0ppm
D Holman	23/11/2010	bed turning/concrete crushing/moving beds	NE	10.06	10.11	y	2	vegetation	0	2	1	0	52.8	46.2	56	no	no	Clear										
D Holman	23/11/2010	bed turning/concrete crushing/moving beds	NE1	10.00	10.05								118.3	60.4				Clear										
D Holman	23/11/2010	bed turning/concrete crushing/moving beds	E	9.54	9.59	y	3	vegetation	0	2	1	0	118.2	64.4	61	no	no	Clear	9.659									
D Holman	23/11/2010	bed turning/concrete crushing/moving beds	SE	9.48	9.53	y	3	vegetation and sweet chemical	0	3	2	0			59	no	no											
D Holman	23/11/2010	bed turning/concrete crushing/moving beds	S	9.42	9.47	y	2	vegetation and odour control	0	3	3	0	34.5	24.8	64	no	no											

D Holman	23/11/2010	bed turning/concrete crushing/moving beds	SW	9.36	9.41	y	2	vegetation	0	4	5	0			73	no	no													
D Holman	23/11/2010	bed turning/concrete crushing/moving beds	W	9.36	9.35	y	3	vegetation	0	4	5	0	39.6	24.6	79	no	no													
D Holman	23/11/2010	bed turning/concrete crushing/moving beds	NW	10.18	10.23	y	1	vegetation	0	2	5	0			78	no	no													
D Holman	23/11/2010	bed turning/concrete crushing/moving beds	N	17.12	17.17	y	2	vegetation	0	2	5	0			64	no	no	Clear	9.219					4	nw	5	cloudy	8	damp	Wet weather prevented use of Dust mate
D Holman	23/11/2010	bed turning/concrete crushing/moving beds	NE	17.06	17.11	y	2	odour control	0	2	5	0			56	no	no	Clear												
D Holman	23/11/2010	bed turning/concrete crushing/moving beds	NE1	17.00	17.05													Clear												
D Holman	23/11/2010	bed turning/concrete crushing/moving beds	E	16.54	16.59	y	3	vegetation and odour control	0	2	3	0			59	no	no	Clear	9.659											
D Holman	23/11/2010	bed turning/concrete crushing/moving beds	SE	16.48	16.53	y	1	vegetation	0	3	5	0			58	no	no													
D Holman	23/11/2010	bed turning/concrete crushing/moving beds	S	16.42	16.47	y	1	vegetation	0	3	5	0			63	no	no													
D Holman	23/11/2010	bed turning/concrete crushing/moving beds	SW	16.36	16.41	y	1	vegetation	0	4	5	0			74	no	no													
D Holman	23/11/2010	bed turning/concrete crushing/moving beds	W	16.30	16.35	y	1	vegetation	0	4	5	0			80	no	no													
D Holman	23/11/2010	bed turning/concrete crushing/moving beds	NW	17.18	17.23	y	1	vegetation	0	2	5	0			79	no	no													
D Holman	24/11/2010	excavating in grids/bed turning/concrete crushing	N	10.42	10.47	y	1	vegetation	0	2	5	0	55.1	29.4	57	no	no	Clear	9.219					1.8	w	6.5	sun, cold	0	dry	
D Holman	24/11/2010	excavating in grids/bed turning/concrete crushing	NE	10.36	10.41	y	2	sweet chemical and earth	0	2	5	0	43.4	50.9	58	no	no	Clear												
D Holman	24/11/2010	excavating in grids/bed turning/concrete crushing	NE1	10.30	10.35								78.6	32				Clear												
D Holman	24/11/2010	excavating in grids/bed turning/concrete crushing	E	10.24	10.29	y	1	concrete dust, hot machinery	0	2	5	0	187.8	91.4	64	no	no	Clear	9.659											
D Holman	24/11/2010	excavating in grids/bed turning/concrete crushing	SE	10.18	10.23	y	1	sweet chemical and concrete dust	0	3	5	0			58	no	no													
D Holman	24/11/2010	excavating in grids/bed turning/concrete crushing	S	10.12	10.17	y	1	vegetation and exhaust fumes	0	3	5	0	58.5	51	63	no	no													
D Holman	24/11/2010	excavating in grids/bed turning/concrete crushing	SW	10.06	10.11	y	1	vegetation	0	4	5	0			74	no	no													
D Holman	24/11/2010	excavating in grids/bed turning/concrete crushing	W	10.00	10.05	y	1	vegetation	0	4	5	0	132.7	58.4	79	no	no													
D Holman	24/11/2010	excavating in grids/bed turning/concrete crushing	NW	10.48	10.53	y	1	vegetation	0	2	5	0			78	no	no													
D Holman	24/11/2010	bed turning/concrete crushing/moving beds	N	17.42	17.47	y	2	vegetation and stagnant water	0	2	3				67	no	no	Clear	9.219							drizzle	8	damp	Wet weather prevented use of Dust mate	
D Holman	24/11/2010	bed turning/concrete crushing/moving beds	NE	17.36	17.41	y	1	odour control and sweet chemical	0	2	5				58	no	no	Clear												
D Holman	24/11/2010	bed turning/concrete crushing/moving beds	NE1	17.30	17.35													clear												
D Holman	24/11/2010	bed turning/concrete crushing/moving beds	E	17.24	17.29					2					62	no	no	clear	9.659											
D Holman	24/11/2010	bed turning/concrete crushing/moving beds	SE	17.18	17.23	y	2	earth and chemical	0	3	5				56	no	no													
D Holman	24/11/2010	bed turning/concrete crushing/moving beds	S	17.12	17.17	y	1	exhaust fumes	0	3	5				62	no	no													
D Holman	24/11/2010	bed turning/concrete crushing/moving beds	SW	17.06	17.11					4					72	no	no													
D Holman	24/11/2010	bed turning/concrete crushing/moving beds	W	17.00	17.05	y	1	vegetation	0	4	5				77	no	no													
D Holman	24/11/2010	bed turning/concrete crushing/moving beds	NW	17.48	17.53	y	1	vegetation	0	2	5				78	no	no													
D Holman	25/11/2010	excavating in grids/bed turning/concrete crushing	N	10.12	10.17					2		0	55.7	38.5	59	no	no	clear	9.209					0.5	nnw	2	sun, cold	0	damp	slight intermittent sweet odour at Hauxton church 1-2/9 0.0ppn
D Holman	25/11/2010	excavating in grids/bed turning/concrete crushing	NE	10.06	10.11	y	1	chemical earth and vegetation	0	2	5	0	117.7	42.7	61	no	no	clear												
D Holman	25/11/2010	excavating in grids/bed turning/concrete crushing	NE1	10.00	10.05								119.4	48				clear												
D Holman	25/11/2010	excavating in grids/bed turning/concrete crushing	E	9.54	9.59	y	1	vegetation	0	2	5	0	149.5	43.2	67	no	no	clear	9.659											
D Holman	25/11/2010	excavating in grids/bed turning/concrete crushing	SE	9.48	9.53	y	3	chemical earthy	-1	3	5	0			64	no	no													
D Holman	25/11/2010	excavating in grids/bed turning/concrete crushing	S	9.42	9.47					3		0	88.2	34.2	65	no	no													
D Holman	25/11/2010	excavating in grids/bed turning/concrete crushing	SW	9.36	9.41	y	2	vegetation	0	4	5	0			75	no	no													
D Holman	25/11/2010	excavating in grids/bed turning/concrete crushing	W	9.30	9.35	y	2	vegetation	0	4	5	0			79	no	no													Wet weather prevented use of Dust mate
D Holman	25/11/2010	excavating in grids/bed turning/concrete crushing	NW	10.18	10.23	y	1	vegetation	0	2	5	0			80	no	no													
D Holman	25/11/2010	bed turning/concrete crushing	N	16.42	16.47	n				2		0			57	no	no	clear	9.209					3	w	-1	clear cold	0	frozen	
D Holman	25/11/2010	bed turning/concrete crushing	NE	16.36	16.41	y	2	vegetation	0	2	5	0			60	no	no	clear												
D Holman	25/11/2010	bed turning/concrete crushing	NE1	16.30	16.35													clear												
D Holman	25/11/2010	bed turning/concrete crushing	E	16.24	16.29	y	1	vegetation	0	2	5	0			66	no	no	clear	9.659											
D Holman	25/11/2010	bed turning/concrete crushing	SE	16.18	16.23	n				3		0			65	no	no													
D Holman	25/11/2010	bed turning/concrete crushing	S	16.12	16.17	n				3		0			63	no	no													
D Holman	25/11/2010	bed turning/concrete crushing	SW	16.06	16.11	y	1	vegetation	0	4	5	0			74	no	no													
D Holman	25/11/2010	bed turning/concrete crushing	W	16.00	16.05	y	1	vegetation	0	4	5	0			79	no	no													
D Holman	25/11/2010	bed turning/concrete crushing	NW	16.48	16.53	y	2	vegetation	0	2	5	0			79	no	no													
D Holman	26/11/2010	excavating in grids/bed turning/concrete crushing	N	10.12	10.17	y	2	burning, possibly machines in cold air	-1	2	5	0			55	no	no	clear	9.209					0.5	wsw	2.5	sun cold	0	frozen	Burning odour at North monitoring point from external sourc
D Holman	26/11/2010	excavating in grids/bed turning/concrete crushing	NE	10.06	10.11	y	1	vegetation	0	2	5	0			57	no	no	clear												
D Holman	26/11/2010	excavating in grids/bed turning/concrete crushing	NE1	10.00	10.05													Clear												
D Holman	26/11/2010	excavating in grids/bed turning/concrete crushing	E	9.54	9.59	y	1	vegetation	0	2	5	0			63	no	no	Clear	9.659											
D Holman	26/11/2010	excavating in grids/bed turning/concrete crushing	SE	9.48	9.53	y	2	vegetation	0	3	5	0			57	no	no													
D Holman	26/11/2010	excavating in grids/bed turning/concrete crushing	S	9.42	9.47	n				3		0			62	no	no													
D Holman	26/11/2010	excavating in grids/bed turning/concrete crushing	SW	9.36	9.41	n				4		0			76	no	no													
D Holman	26/11/2010	excavating in grids/bed turning/concrete crushing	W	9.30	9.35	y	2	vegetation and exhaust fumes	0	4	5	0			80	no	no													
D Holman	26/11/2010	excavating in grids/bed turning/concrete crushing	NW	10.18	10.23	y	1	vegetation	0	2	5	0			79	no	no													
D Holman	26/11/2010	bed turning/concrete crushing	N	16.15	16.20	n				2		0			60.7	no	no	Clear	9.209					none	NW		clear	4	damp	no odour behind fire exit, no odour at churcl
D Holman	26/11/2010	bed turning/concrete crushing	NE	16.10	16.15	n				2		0			59.6	no	no	Clear												
D Holman	26/11/2010	bed turning/concrete crushing	NE1	16.05	16.10													Clear												
D Holman	26/11/2010	bed turning/concrete crushing	E	16.00	16.05	n				2		0			59.9	no	no	Clear	9.659											
D Holman	26/11/2010	bed turning/concrete crushing	SE	15.55	16.00	y	3	vegetation	0	3	5	0			53.4	no	no													
D Holman	26/11/2010	bed turning/concrete crushing	S	15.50	15.55	n				3		0			61.4	no	no													
D Holman	26/11/2010	bed turning/concrete crushing	SW	15.45	15.50	y	3	trees/veg	0	4	5	0			71.5	no	no													
D Holman	26/11/2010	bed turning/concrete crushing	W	15.40	15.45	y	2	road fumes cold	0	4	5	0			75.1	no	no													
D Holman	26/11/2010	bed turning/concrete crushing	NW	16.00	16.05	n				2		0			63.4	no	no													

Appendix C

Long term Passive VOC Monitoring

Results Pending

Appendix D

Directional Dust Monitoring

Chemtest

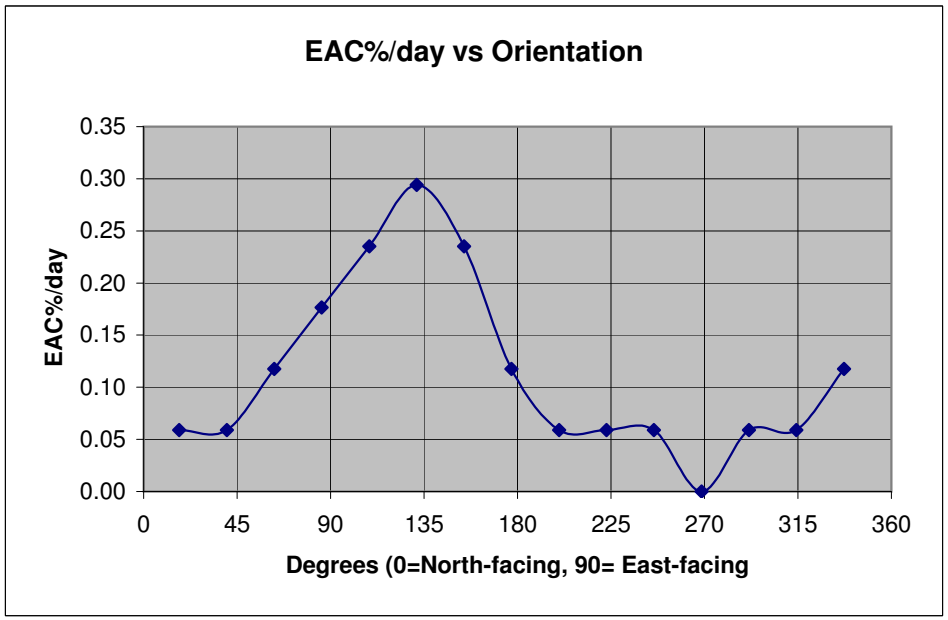
Sticky Pad Data

Gauge Number - North location 907BRI

Sticky Pad Data

Date On	15/10/2010	Date Off	01/11/2010	Days = 17
Clean =	90			

X Axis mm	Meter	Angle deg	EAC%/day
20	88	337	0.12
40	89	314	0.06
60	89	291	0.06
80	90	269	0.00
100	89	246	0.06
120	89	223	0.06
140	89	200	0.06
160	88	177	0.12
180	86	154	0.24
200	85	131	0.29
220	86	109	0.24
240	87	86	0.18
260	88	63	0.12
280	89	40	0.06
300	89	17	0.06



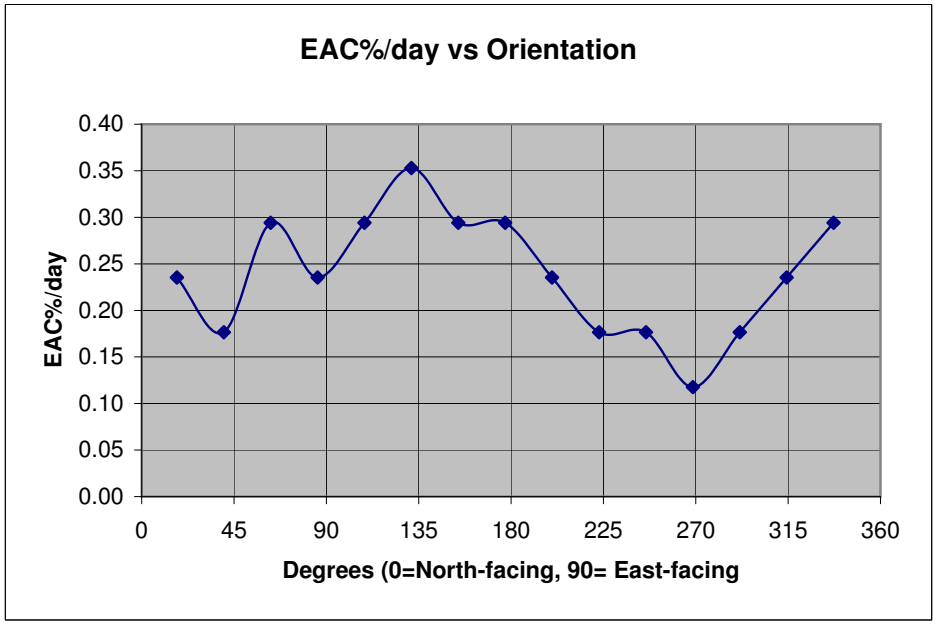
Note: Cells coloured yellow are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 40mm intervals along the sticky pad.

Chemtest **Sticky Pad Data**

Gauge Number - NE1 location 907BRI

Sticky Pad Data

Date On	15/10/2010	Date Off	01/11/2010	Days = 17
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	85	337	0.29	
40	86	314	0.24	
60	87	291	0.18	
80	88	269	0.12	
100	87	246	0.18	
120	87	223	0.18	
140	86	200	0.24	
160	85	177	0.29	
180	85	154	0.29	
200	84	131	0.35	
220	85	109	0.29	
240	86	86	0.24	
260	85	63	0.29	
280	87	40	0.18	
300	86	17	0.24	



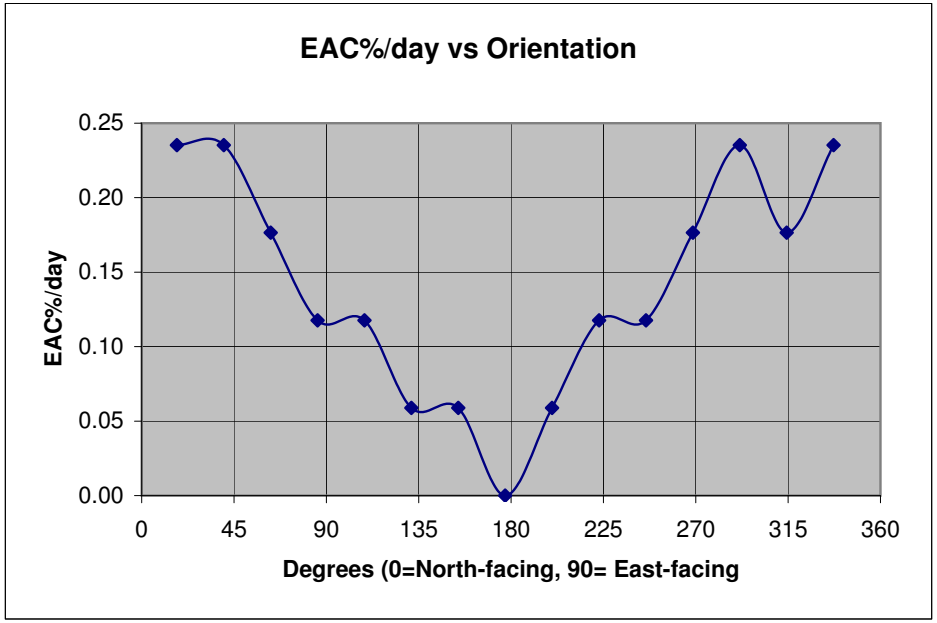
Note: Cells coloured yellow are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 40mm intervals along the sticky pad.

Chemtest **Sticky Pad Data**

Gauge Number - NE2 location 907BRI

Sticky Pad Data

Date On	15/10/2010	Date Off	01/11/2010	Days = 17
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	86	337	0.24	
40	87	314	0.18	
60	86	291	0.24	
80	87	269	0.18	
100	88	246	0.12	
120	88	223	0.12	
140	89	200	0.06	
160	90	177	0.00	
180	89	154	0.06	
200	89	131	0.06	
220	88	109	0.12	
240	88	86	0.12	
260	87	63	0.18	
280	86	40	0.24	
300	86	17	0.24	



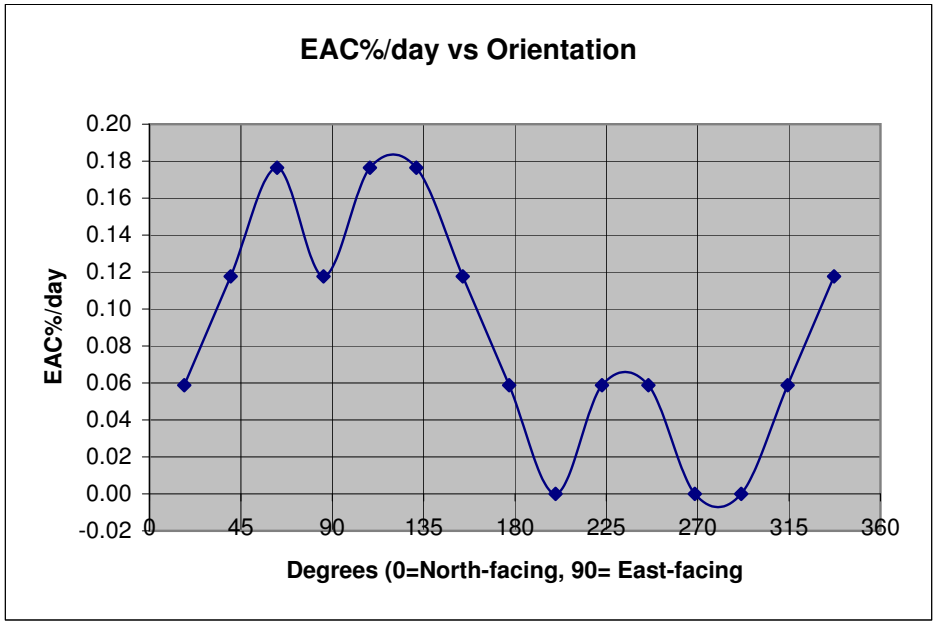
Note: Cells coloured yellow are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 40mm intervals along the sticky pad.

Chemtest **Sticky Pad Data**

Gauge Number - South location 907BRI

Sticky Pad Data

Date On	15/10/2010	Date Off	01/11/2010	Days = 17
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	88	337	0.12	
40	89	314	0.06	
60	90	291	0.00	
80	90	269	0.00	
100	89	246	0.06	
120	89	223	0.06	
140	90	200	0.00	
160	89	177	0.06	
180	88	154	0.12	
200	87	131	0.18	
220	87	109	0.18	
240	88	86	0.12	
260	87	63	0.18	
280	88	40	0.12	
300	89	17	0.06	
			5.29	



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

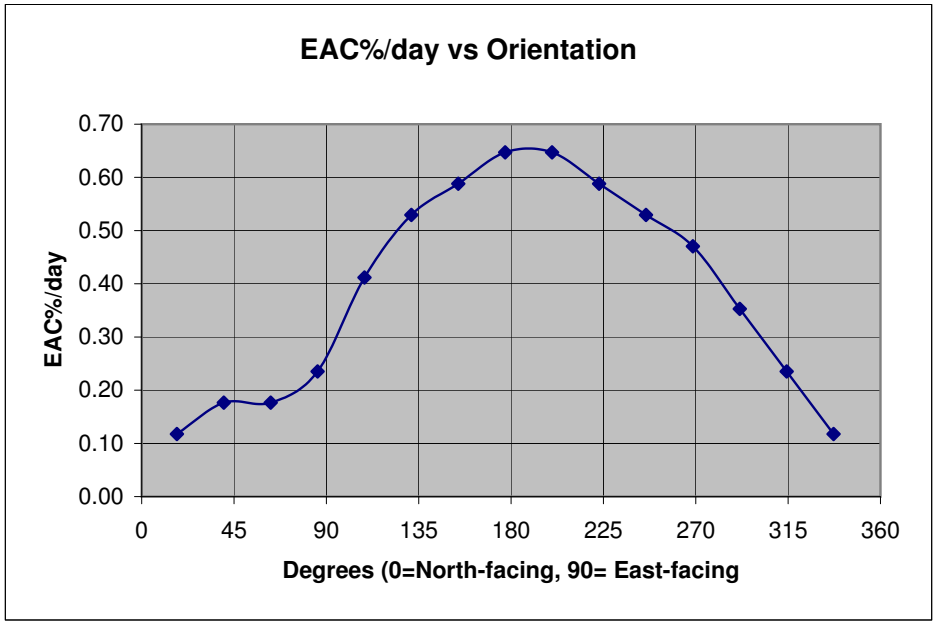
Chemtest **Sticky Pad Data**

Gauge Number - West location 907BRI

Sticky Pad Data

Date On	15/10/2010	Date Off	01/11/2010	Days = 17
Clean =	90			

X Axis mm	Meter	Angle deg	EAC%/day
20	88	337	0.12
40	86	314	0.24
60	84	291	0.35
80	82	269	0.47
100	81	246	0.53
120	80	223	0.59
140	79	200	0.65
160	79	177	0.65
180	80	154	0.59
200	81	131	0.53
220	83	109	0.41
240	86	86	0.24
260	87	63	0.18
280	87	40	0.18
300	88	17	0.12



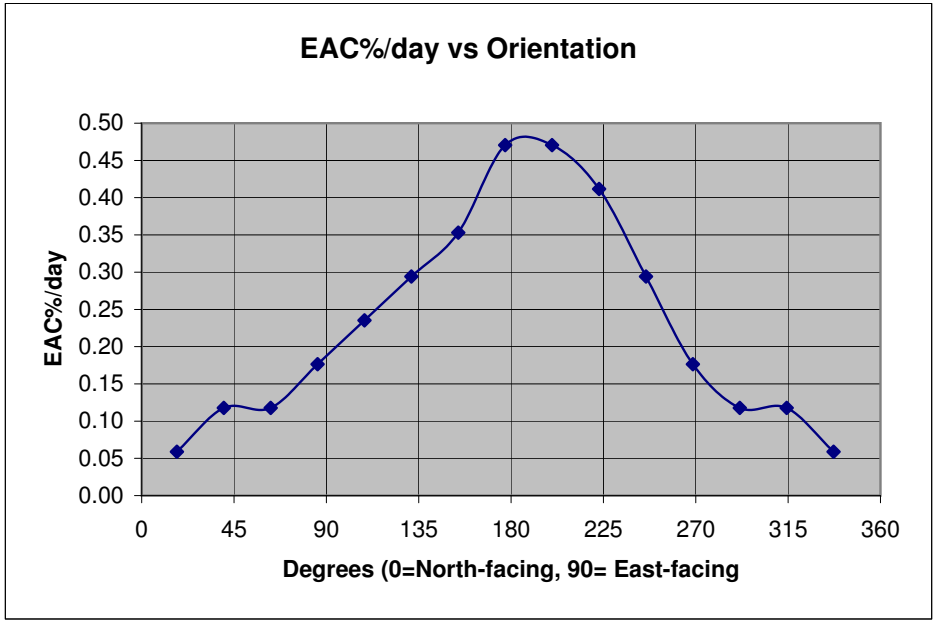
Note: Cells coloured yellow are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 40mm intervals along the sticky pad.

Chemtest **Sticky Pad Data**

Gauge Number - East location 907BRI

Sticky Pad Data

Date On	15/10/2010	Date Off	01/11/2010	Days = 17
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	89	337	0.06	
40	88	314	0.12	
60	88	291	0.12	
80	87	269	0.18	
100	85	246	0.29	
120	83	223	0.41	
140	82	200	0.47	
160	82	177	0.47	
180	84	154	0.35	
200	85	131	0.29	
220	86	109	0.24	
240	87	86	0.18	
260	88	63	0.12	
280	88	40	0.12	
300	89	17	0.06	



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

Chemtest

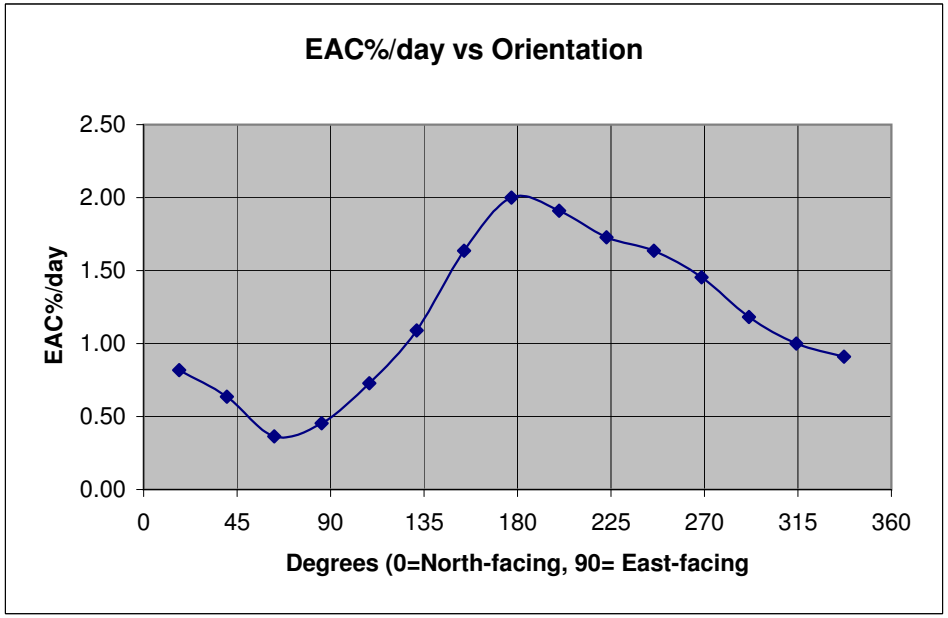
Sticky Pad Data

Gauge Number - North location 907BRI

Sticky Pad Data

Date On	01/11/2010	Date Off	12/11/2010	Days = 11
Clean =	90			

X Axis mm	Meter	Angle deg	EAC%/day
20	80	337	0.91
40	79	314	1.00
60	77	291	1.18
80	74	269	1.45
100	72	246	1.64
120	71	223	1.73
140	69	200	1.91
160	68	177	2.00
180	72	154	1.64
200	78	131	1.09
220	82	109	0.73
240	85	86	0.45
260	86	63	0.36
280	83	40	0.64
300	81	17	0.82



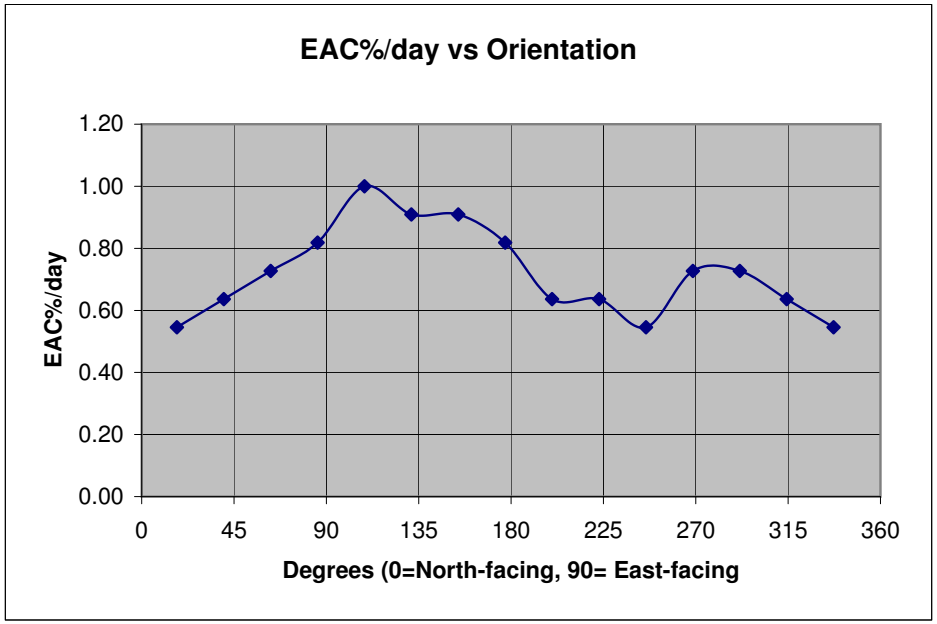
Note: Cells coloured yellow are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 40mm intervals along the sticky pad.

Chemtest **Sticky Pad Data**

Gauge Number - NE2 location 907BRI

Sticky Pad Data

Date On	01/11/2010	Date Off	12/11/2010	Days = 11
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	84	337	0.55	
40	83	314	0.64	
60	82	291	0.73	
80	82	269	0.73	
100	84	246	0.55	
120	83	223	0.64	
140	83	200	0.64	
160	81	177	0.82	
180	80	154	0.91	
200	80	131	0.91	
220	79	109	1.00	
240	81	86	0.82	
260	82	63	0.73	
280	83	40	0.64	
300	84	17	0.55	



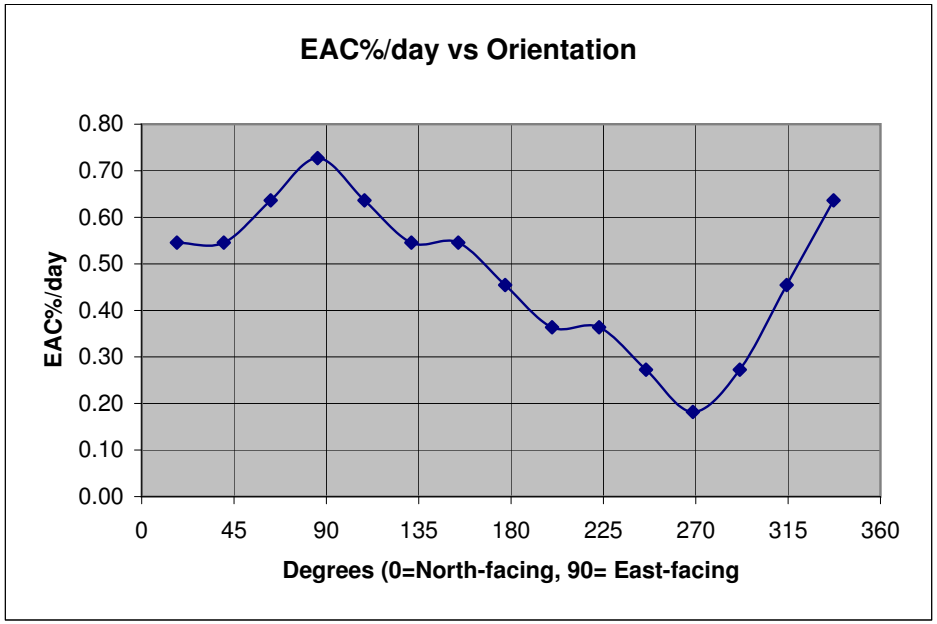
Note: Cells coloured yellow are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 40mm intervals along the sticky pad.

Chemtest **Sticky Pad Data**

Gauge Number - South location 907BRI

Sticky Pad Data

Date On	01/11/2010	Date Off	12/11/2010	Days = 11
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	83	337	0.64	
40	85	314	0.45	
60	87	291	0.27	
80	88	269	0.18	
100	87	246	0.27	
120	86	223	0.36	
140	86	200	0.36	
160	85	177	0.45	
180	84	154	0.55	
200	84	131	0.55	
220	83	109	0.64	
240	82	86	0.73	
260	83	63	0.64	
280	84	40	0.55	
300	84	17	0.55	
			8.18	



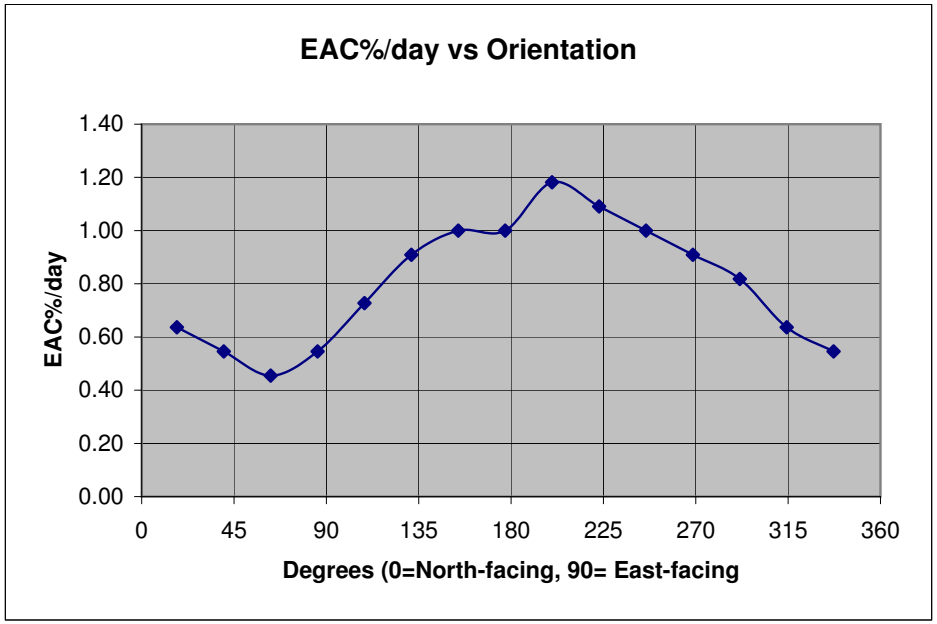
Note: Cells coloured yellow are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 40mm intervals along the sticky pad.

Chemtest **Sticky Pad Data**

Gauge Number - West location 907BRI

Sticky Pad Data

Date On	01/11/2010	Date Off	12/11/2010	Days = 11
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	84	337	0.55	
40	83	314	0.64	
60	81	291	0.82	
80	80	269	0.91	
100	79	246	1.00	
120	78	223	1.09	
140	77	200	1.18	
160	79	177	1.00	
180	79	154	1.00	
200	80	131	0.91	
220	82	109	0.73	
240	84	86	0.55	
260	85	63	0.45	
280	84	40	0.55	
300	83	17	0.64	



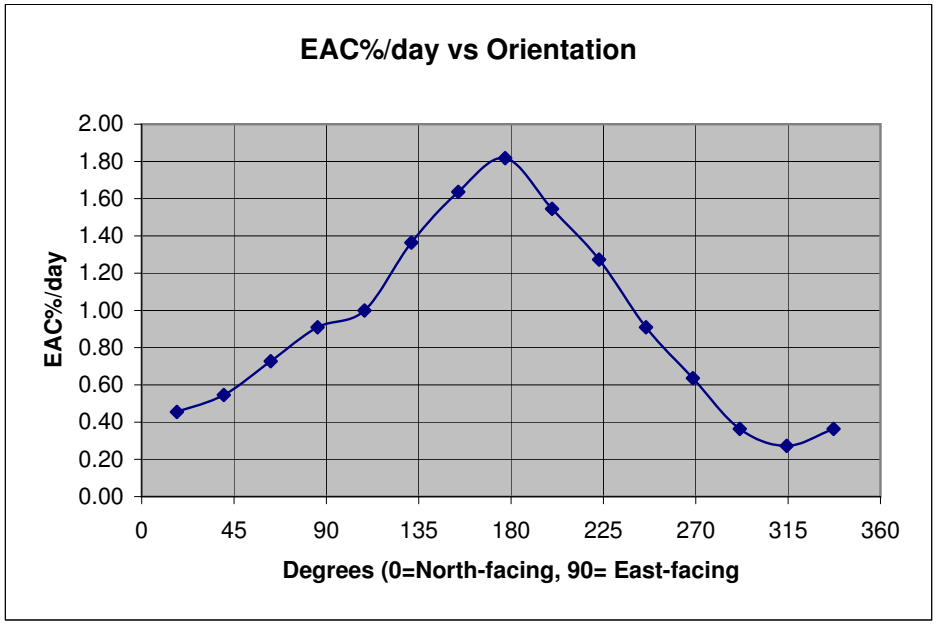
Note: Cells coloured yellow are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 40mm intervals along the sticky pad.

Chemtest **Sticky Pad Data**

Gauge Number - East location 907BRI

Sticky Pad Data

Date On	01/11/2010	Date Off	12/11/2010	Days = 11
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	86	337	0.36	
40	87	314	0.27	
60	86	291	0.36	
80	83	269	0.64	
100	80	246	0.91	
120	76	223	1.27	
140	73	200	1.55	
160	70	177	1.82	
180	72	154	1.64	
200	75	131	1.36	
220	79	109	1.00	
240	80	86	0.91	
260	82	63	0.73	
280	84	40	0.55	
300	85	17	0.45	



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

Chemtest

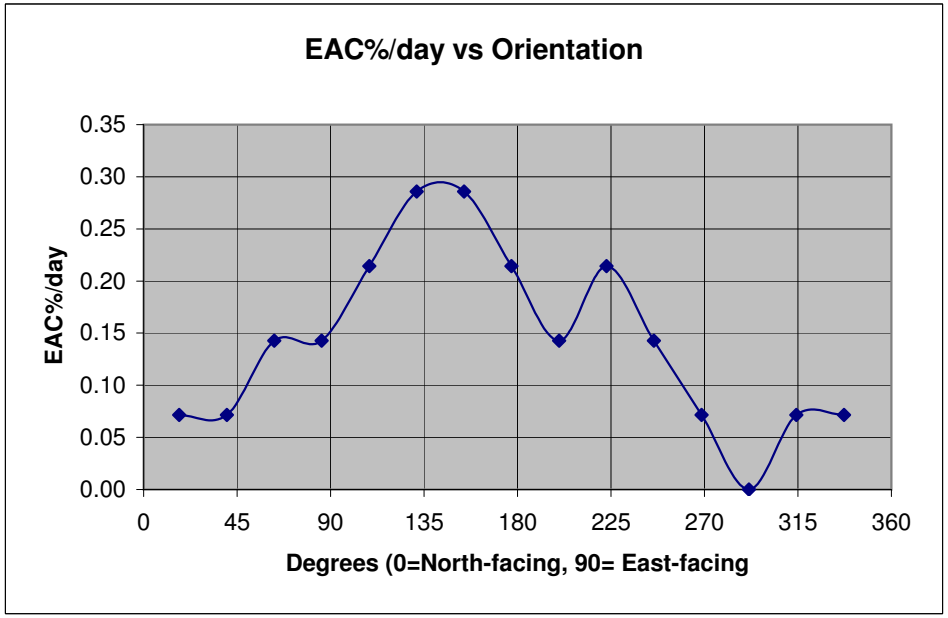
Sticky Pad Data

Gauge Number - North location 907BRI

Sticky Pad Data

Date On	12/11/2010	Date Off	26/11/2010	Days = 14
Clean =	90			

X Axis mm	Meter	Angle deg	EAC%/day
20	89	337	0.07
40	89	314	0.07
60	90	291	0.00
80	89	269	0.07
100	88	246	0.14
120	87	223	0.21
140	88	200	0.14
160	87	177	0.21
180	86	154	0.29
200	86	131	0.29
220	87	109	0.21
240	88	86	0.14
260	88	63	0.14
280	89	40	0.07
300	89	17	0.07



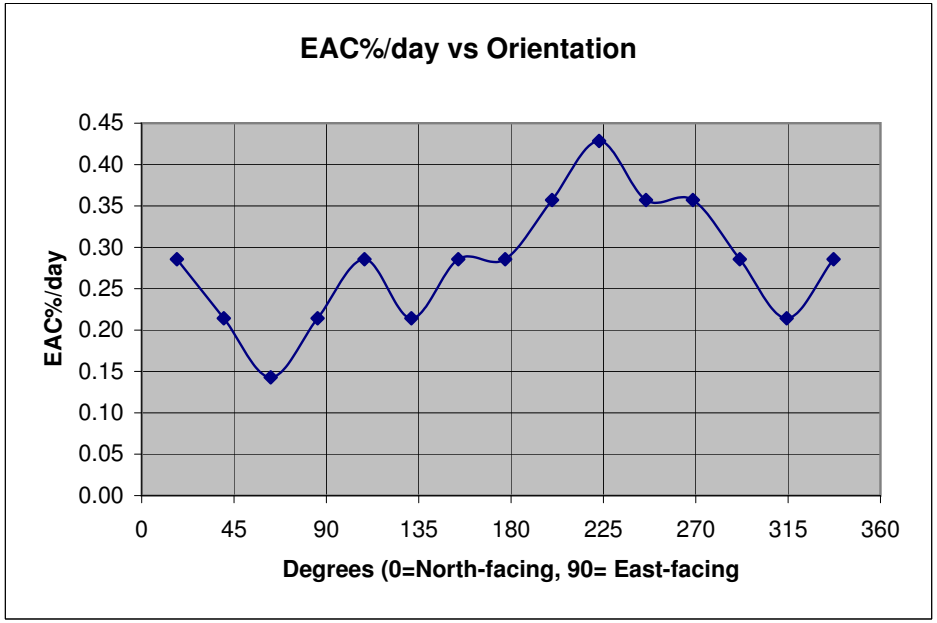
Note: Cells coloured yellow are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 40mm intervals along the sticky pad.

Chemtest **Sticky Pad Data**

Gauge Number - NE1 location 907BRI

Sticky Pad Data

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



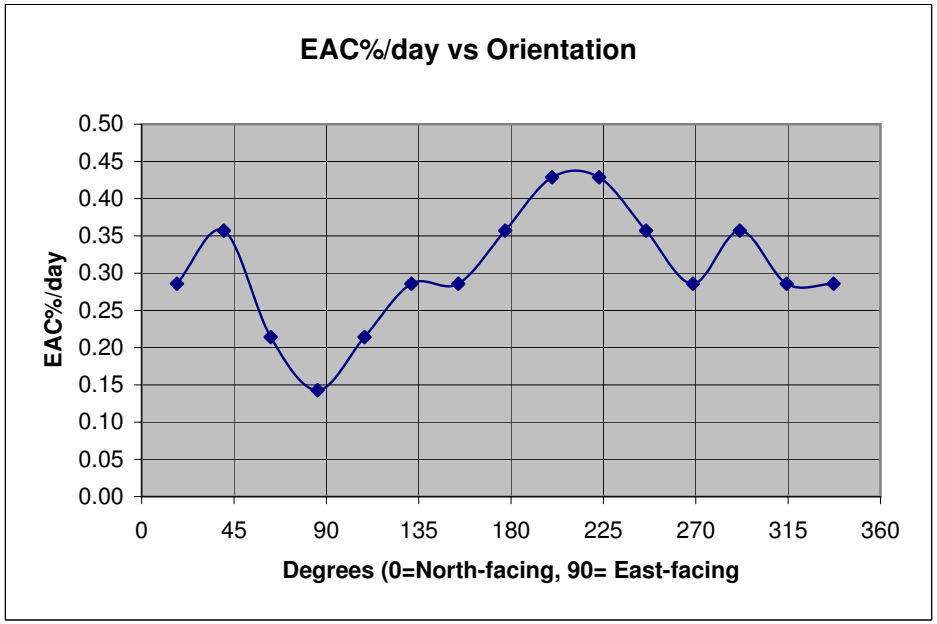
Note: Cells coloured yellow are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 40mm intervals along the sticky pad.

Chemtest **Sticky Pad Data**

Gauge Number - NE2 location 907BRI

Sticky Pad Data

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



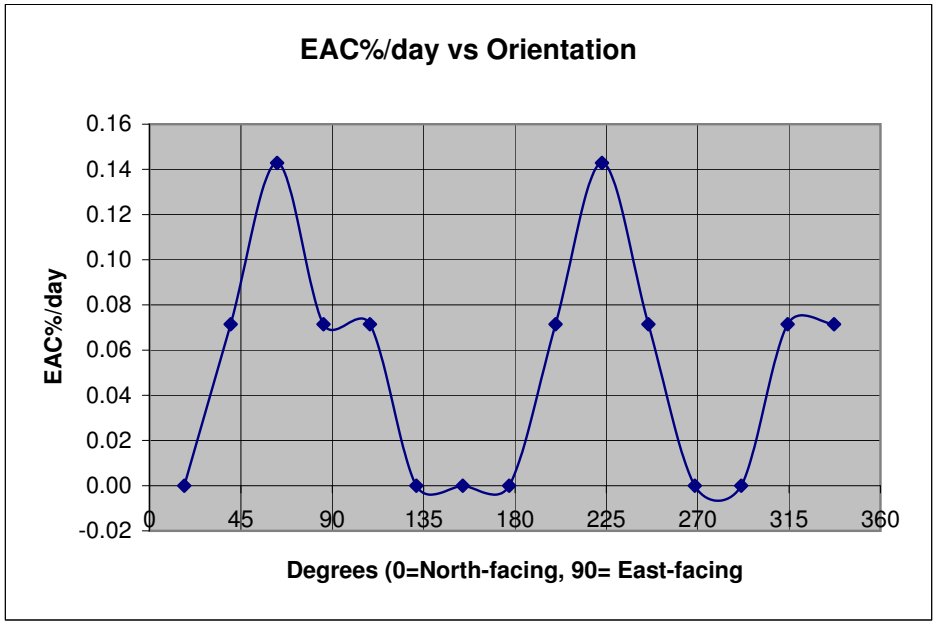
Note: Cells coloured yellow are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 40mm intervals along the sticky pad.

Chemtest **Sticky Pad Data**

Gauge Number - South location 907BRI

Sticky Pad Data

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



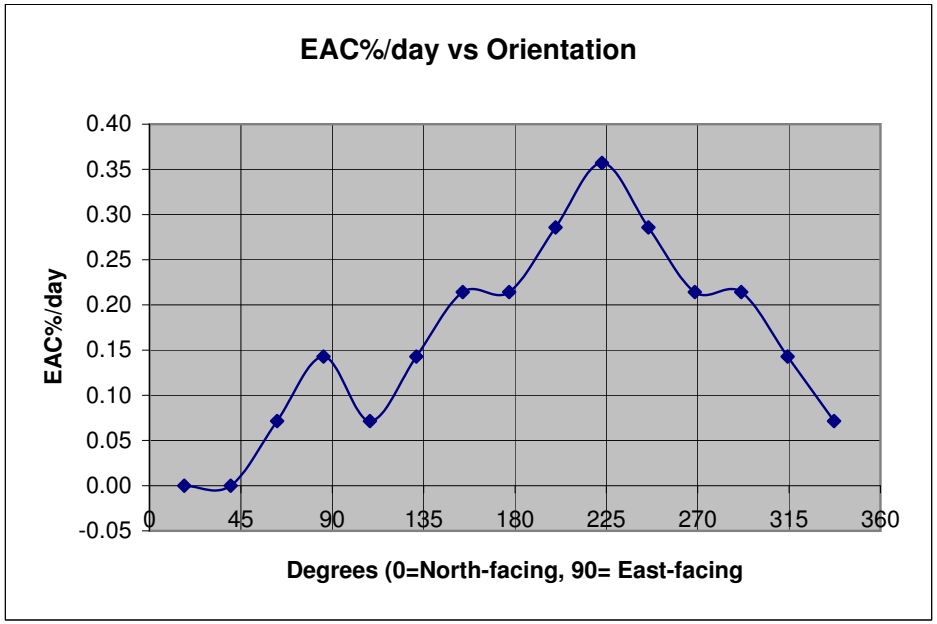
Note: Cells coloured yellow are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 40mm intervals along the sticky pad.

Chemtest **Sticky Pad Data**

Gauge Number - West location 907BRI

Sticky Pad Data

Date On	12/11/2010	Date Off	26/11/2010	Days = 14
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	89	337	0.07	
40	88	314	0.14	
60	87	291	0.21	
80	87	269	0.21	
100	86	246	0.29	
120	85	223	0.36	
140	86	200	0.29	
160	87	177	0.21	
180	87	154	0.21	
200	88	131	0.14	
220	89	109	0.07	
240	88	86	0.14	
260	89	63	0.07	
280	90	40	0.00	
300	90	17	0.00	



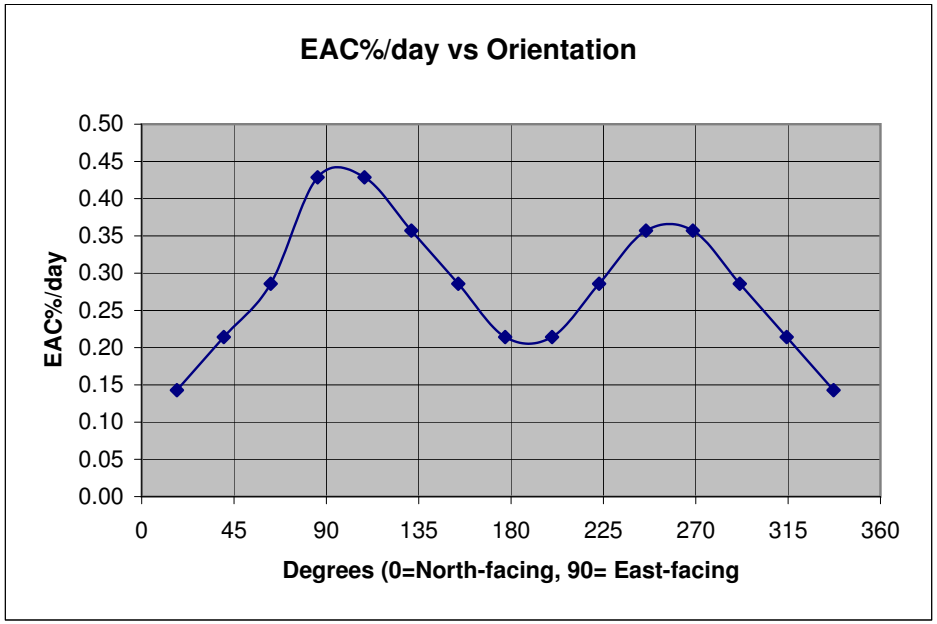
Note: Cells coloured yellow are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 40mm intervals along the sticky pad.

Chemtest **Sticky Pad Data**

Gauge Number - East location 907BRI

Sticky Pad Data

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



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

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
01/11/2010	10.05	10.61	10.234	10.431	10.509	10.624	9.773	10.413	9.65	10.23	10.17	10.16	9.219	9.294	9.540	9.649
02/11/2010	10.06	10.62	10.224	10.441	10.499	10.624	9.783	10.423	9.66	10.24	10.18	10.17	9.209	9.304	9.550	9.649
03/11/2010	10.05	10.6	10.224	10.431	10.509	10.604	9.793	10.413	9.65	10.22	10.17	10.17	9.209	9.304	9.550	9.649
04/11/2010	10.04	10.61	10.234	10.421	10.509	10.614	9.783	10.413	9.66	10.23	10.18	10.16	9.219	9.304	9.550	9.649
05/11/2010	10.04	10.62	10.224	10.431	10.509	10.604	9.783	10.413	9.66	10.23	10.19	10.16	9.219	9.304	9.550	9.659
08/11/2010	10.1	10.65	10.254	10.481	10.519	10.624	9.833	10.453	9.68	10.26	10.21	10.19	9.229	9.304	9.550	9.659
09/11/2010	10.09	10.64	10.234	10.461	10.519	10.624	9.823	10.433	9.67	10.24	10.2	10.18	9.229	9.304	9.550	9.659
10/11/2010	10.09	10.63	10.234	10.441	10.519	10.624	9.813	10.423	9.66	10.23	10.19	10.17	9.219	9.304	9.550	9.649
11/11/2010	10.08	10.63	10.234	10.431	10.509	Lost	9.813	10.423	9.67	10.23	10.19	10.17	9.219	9.304	9.550	9.649
12/11/2010	10.07	10.62	10.224	10.421	10.509	Lost	9.803	10.423	9.66	10.22	10.19	10.17	9.219	9.304	9.550	9.659
15/11/2010	10.04	10.61	10.234	10.431	10.519	Lost	9.793	10.413	9.66	10.22	10.2	10.18	9.219	9.304	9.550	9.659
16/11/2010	10.05	10.61	10.234	10.431	10.509	Lost	9.793	10.413	9.65	10.23	10.2	10.17	9.229	9.304	9.550	9.659
17/11/2010	10.06	10.59	10.244	10.441	10.489	Lost	9.773	10.433	9.66	10.26	10.18	10.18	9.209	9.294	9.550	9.649
18/11/2010	10.07	10.6	10.254	10.431	10.499	Lost	9.783	10.423	9.66	10.25	10.19	10.17	9.209	9.304	9.550	9.649
19/11/2010	10.06	10.61	10.244	10.441	10.489	Lost	9.773	10.413	9.65	10.24	10.18	10.16	9.219	9.304	9.550	9.659
22/11/2010	10.05	10.6	10.254	10.441	10.489	Lost	9.763	10.423	9.64	10.24	10.19	10.17	9.219	9.304	9.550	9.659
23/11/2010	10.05	10.61	10.254	10.431	10.489	Lost	9.763	10.423	9.65	10.23	10.19	10.17	9.219	9.304	9.550	9.659
24/11/2010	10.06	10.62	10.244	10.441	10.499	Lost	9.773	10.423	9.65	10.24	10.19	10.17	9.219	9.304	9.550	9.659
25/11/2010	10.07	10.61	10.254	10.431	10.489	Lost	9.773	10.413	9.66	10.24	10.18	10.16	9.209	9.304	9.550	9.659
26/11/2010	9.93	10.62	10.214	Covered	10.499	Lost	9.763	10.363	9.61	10.23	10.18	10.16	9.209	9.294	9.540	9.659

Appendix F
Surface Water Analysis Reports

Results Pending

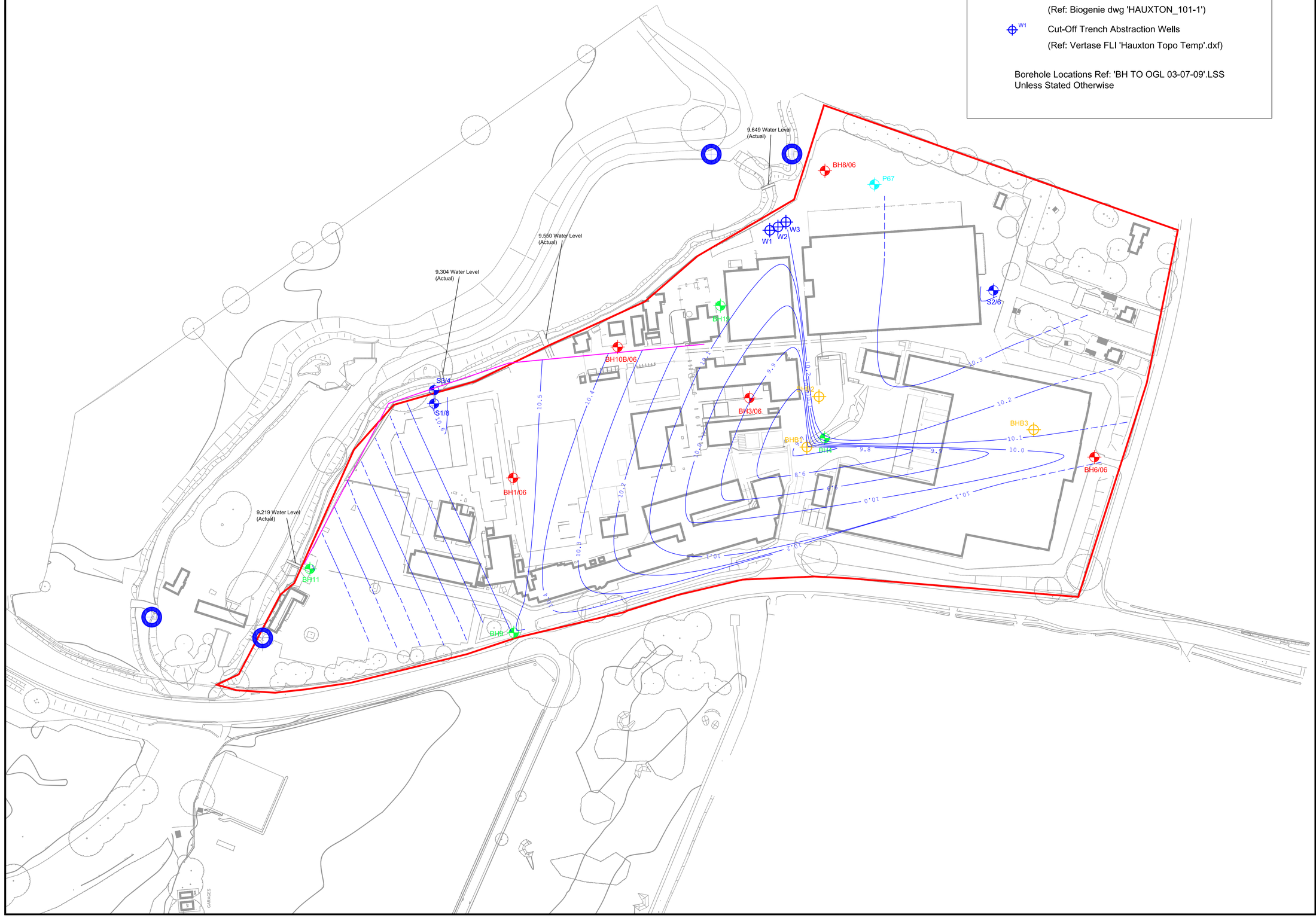
Appendix G
Groundwater Contour Plots

A1

Legend

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

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



Rev.	Description	Revised By	Date
	FIRST ISSUE		10-12-10

Vertase F.L.I.

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email: info@vertasefli.co.uk
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Site Address:
Bayer Site
Hauxton
Cambridge

Rev:

Title: Ground Water Contours 04-11-10

Client: Harrow Estates

Drawn: MRG	Checked: MA	Approved: MA
Dwg: D907_116	Contract: 907 BRI	Scale: 1:1000

A1

Legend

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

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

9.649 Water Level (Actual)
9.550 Water Level (Actual)
9.304 Water Level (Actual)
9.219 Water Level (Actual)
BH8/06
P67
W1
W2
W3
S2/6
BH10
BH10B/06
S3/4
S1/8
BH3/06
BHB2
BHB1
BH4
BHB3
BH6/06
BH1/06
BH11
BH9
GARAGES

Rev.	Description	Revised By	Date
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email: info@vertasefli.co.uk
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Bayer Site
Hauxton
Cambridge

Rev:

Title: Ground Water Contours 11-11-10

Client: Harrow Estates

Drawn: MRG	Checked: MA	Approved: MA
Dwg: D907_117	Contract: 907 BRI	Scale: 1:1000

A1

Legend

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

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

9.649 Water Level (Actual)
9.550 Water Level (Actual)
9.304 Water Level (Actual)
9.209 Water Level (Actual)
BH8/06
P67
W1
W2
W3
S2/6
BH10B/06
BH12
S3/4
S1/8
BH3/06
BHB2
BHB1
BH4
BHB3
BH6/06
BH1/06
BH11
BH9
GARAGES

Rev.	Description	Revised By	Date
	FIRST ISSUE		10-12-10

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Site Address:
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Hauxton
Cambridge

Rev:

Title: Ground Water Contours 18-11-10

Client: Harrow Estates

Drawn: MRG	Checked: MA	Approved: MA
Dwg: D907_118	Contract: 907 BRI	Scale: 1:1000

A1

Legend

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

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

9.659 Water Level (Actual)
9.550 Water Level (Actual)
9.304 Water Level (Actual)
9.209 Water Level (Actual)
BH8/06
P67
W1
W2
W3
S2/6
BH11
BH10B/06
S1/4
S1/8
BH3/06
BHB1
BHB3
BH4
BH6/06
BH1/06
BH9
GARAGES

Rev.	Description	Revised By	Date
	FIRST ISSUE		10-12-10

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Hauxton
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Rev:

Title: Ground Water Contours 25-11-10

Client: Harrow Estates

Drawn: MRG	Checked: MA	Approved: MA
Dwg: D907_119	Contract: 907 BRI	Scale: 1:1000

Appendix H

Waste Water Treatment Plant Discharge Analysis

Water Quality Analysis of Effluent Discharge Sample

				Bromide	Chloride	Sulphate Ion	Suspended Solids (Total)	Ammoniacal Nitrogen	Biochemical Oxygen Demand	pH	Atrazine	Trietazine	Simazine	Total Atrazine, Trietazine and Simazine	Benazolin	2,3,6-TBA	Dicamba	Hempa	Schradan
Sample Taken	Report Date	Report Number	Sample Location	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l		µg/l	µg/l	µg/l	ug/l	µg/l	µg/l	µg/l	µg/l	µg/l
Consented Levels				*50*	*3000*	*5000*	*45*	*15*	*30*	*na*	*Total of all three*			*250*	*50*	*20*	*50*	*274*	*135*
01/03/2010	17/03/2010	193447	Discharge Point	0.30	84.00	150.00	<10	<0.05	<3	8.4	<0.02	0.07	<0.01	0.07	<0.1	0.40	<0.1	<0.1	<0.1
30/03/2010	09/04/2010	195429	Discharge Point	0.40	110.00	180.00	<10	<0.05	<3	8.7	<0.01	<0.01	<0.01	0.00	<0.1	0.30	<0.1	0.40	<0.1
08/04/2010	13/04/2010	196139	T99 Circ	<1.0	110.00	190.00	<10	<0.05	<3	8.0	<0.01	<0.01	<0.01	0.00	<0.1	<0.1	<0.1	2.90	0.40
10/04/2010	19/04/2010	196379	T100 Circ	<1.0	110.00	190.00	<10	0.05	<3	7.9	<0.01	0.01	<0.01	0.01	<0.1	<0.1	<0.1	0.90	0.30
12/04/2010	21/04/2010	196517	T100 Circ	<1.0	1100.00	200.00	<10	<0.05	<3	8.2	<0.01	<0.01	<0.01	0.00	<0.1	<0.1	<0.1	1.50	<0.1
28/04/2010	19/05/2010	199291	Discharge Point	<1.0	130.00	200.00	<10	<0.05	<3	8.1	<0.01	<0.01	<0.01	0.00	<0.1	<0.1	<0.1	5.10	1.50
07/05/2010	17/05/2010	199176	T99 Discharge	<1.0	110.00	200.00	<10	<0.05	6.6	8.2	<0.01	<0.01	<0.01	0.00	<0.2	3.00	<0.2	3.30	0.60
18/05/2010	01/06/2010	200382	Discharge Point	<1.0	180.00	280.00	<10	0.09	<3	8.0	<0.01	0.01	<0.01	0.01	0.60	5.20	0.20	6.30	3.80
28/05/2010	17/06/2010	201487	Discharge Point	<1.0	130.00	210.00	<10	<0.05	<3	8.1	<0.01	<0.01	<0.01	0.00	<0.1	1.30	<0.1	4.30	1.10
15/06/2010	28/06/2010	203351	WTW Discharge	2.7	240.00	320.00	<10	0.05	<3	8.1	<0.01	0.02	<0.01	0.02	<0.1	2.40	0.2	4.10	1.00
01/07/2010	19/07/2010	205613	WWTW Discharge	3.3	290.00	370.00	13	0.07	<3	8.1	<0.01	<0.01	<0.01	0.00	<0.1	0.40	<0.1	<0.1	<0.1
05/08/2010	16/08/2010	208693	WWTW Discharge	<1.0	160.00	300.00	<10	<0.05	<3	8.0	0.02	0.09	0.02	0.13	<0.5	0.40	<0.1	<0.1	<0.1
19/08/2010	26/08/2010	209961	WWTW Discharge	<1.0	160.00	260.00	<10	<0.05	<3	7.7	<0.01	<0.01	<0.01	0.00	<0.1	<0.1	<0.1	<0.1	<0.1
01/09/2010	09/09/2010	211356	WWTW Discharge	2.6	180.00	280.00	<10	<0.05	5	8.1	<0.01	<0.01	<0.01	0.00	<0.1	<0.1	<0.1	2.9	<0.1
16/09/2010	29/09/2010	212901	WWTW Discharge	<1.0	86.00	170.00	<10	0.08	<3	7.9	<0.01	<0.01	<0.01	0.00	<0.1	<0.1	<0.1	24	3.5
24/09/2010	04/10/2010	213745	WWTW Discharge	<1.0	160.00	340.00	35	<0.05	<3	8.0	<0.01	<0.01	<0.01	0.00	<0.1	<0.1	<0.1	24	0.6
08/10/2010	21/10/2010	215625	WWTW Discharge	<1.0	150.00	270.00	<10	<0.05	<3	8.2	<0.01	<0.01	<0.01	0.00	<0.1	<0.1	<0.1	52	2.2
21/10/2010	01/11/2010	216826	WWTW Discharge	<1.0	200.00	240.00	11	<0.05	<3	7.7	<0.01	<0.01	<0.01	0.00	<0.1	<0.1	<0.1	24	9.4
10/11/2010	22/11/2010	218850	WWTW Discharge	<1.0	81.00	120.00	<10	<0.05	<3	8.1	<0.01	0.03	<0.01	0.03	<0.1	0.7	<0.1	15	6.2
16/11/2010	23/22/2010	219447	WWTW Discharge	<1.0	150.00	160.00	<10	<0.05	<3	8.0	<0.01	<0.01	<0.01	0.00	<0.1	0.9	0.1	14	24

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Scientific Analysis Laboratories

Certificate of Analysis

Hadfield House
Hadfield Street
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Tel : 0161 874 2400
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Report Number: 218850-1

Date of Report: 22-Nov-2010

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

Customer Contact: The Project Management

Customer Job Reference: 907 BRI WWTW
Date Job Received at SAL: 11-Nov-2010
Date Analysis Started: 11-Nov-2010
Date Analysis Completed: 22-Nov-2010

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

UKAS TESTING
1549

Report checked and authorised by :
Amelia McVennon
Project Manager

Issued by :
Amelia McVennon
Project Manager

SAL Reference: 218850
Customer Reference: 907 BRI WWTW

Water Analysed as Water
Miscellaneous

					SAL Reference	**218850 001**	**218850 002**
					Customer Sample Reference	**WWTW Discharge**	**WWTW Primary B**
					Date Sampled	**05-NOV-2010**	**05-NOV-2010**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Ammoniacal nitrogen	T4	AR	50	µg/l	<50	<50
Biochemical Oxygen Demand	T7	AR	3000	µg/l	<3000	<3000
pH	T7	AR			**8.1**	**8.2**

SAL Reference: 218850
Customer Reference: 907 BRI WWTW

Water Analysed as Water
Suite A

					SAL Reference	**218850 001**	**218850 002**
					Customer Sample Reference	**WWTW Discharge**	**WWTW Primary B**
					Date Sampled	**05-NOV-2010**	**05-NOV-2010**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Atrazine	T16	AR	0.01	µg/l	<0.01	**0.93**
Trietazine	T16	AR	0.01	µg/l	**0.03**	**4.4**

SAL Reference: 218850
Customer Reference: 907 BRI WWTW

Water Analysed as Water
Suite B

					SAL Reference	**218850 001**	**218850 002**
					Customer Sample Reference	**WWTW Discharge**	**WWTW Primary B**
					Date Sampled	**05-NOV-2010**	**05-NOV-2010**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Benazolin	T16	AR	0.1	µg/l	<0.1	**56**
2,3,6-TCB	T16	AR	0.1	µg/l	**0.7**	**1.7**

SAL Reference: 218850
Customer Reference: 907 BRI WWTW

Water Analysed as Water
Suite C

					SAL Reference	**218850 001**	**218850 002**
					Customer Sample Reference	**WWTW Discharge**	**WWTW Primary B**
					Date Sampled	**05-NOV-2010**	**05-NOV-2010**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Bromide	T253	AR	100	µg/l	<1000	<1000
Chloride	T253	AR	200	µg/l	**81000**	**80000**
Sulphate ion	T253	AR	100	µg/l	**120000**	**120000**
Suspended Solids (Total)	T2	AR	10000	µg/l	<10000	**47000**

SAL Reference: 218850
Customer Reference: 907 BRI WWTW

Water Analysed as Water
Suite D

				SAL Reference	**218850 001**	**218850 002**
				Customer Sample Reference	**WWTW Discharge**	**WWTW Primary B**
				Date Sampled	**05-NOV-2010**	**05-NOV-2010**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Dicamba	T16	AR	0.1	µg/l	<0.1	**1.5**
Hempa	T16	AR	0.1	µg/l	**15**	**8.6**
Schradan	T16	AR	0.1	µg/l	**6.2**	**5.1**
Simazine	T16	AR	0.01	µg/l	<0.01	<0.01

SAL Reference: 218850
Customer Reference: 907 BRI WWTW

Water Analysed as Water
Suite E

				SAL Reference	**218850 001**	**218850 002**
				Customer Sample Reference	**WWTW Discharge**	**WWTW Primary B**
				Date Sampled	**05-NOV-2010**	**05-NOV-2010**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
TVC at 22°C after 3 days	T34	AR	10	cfu/ml	**2000**	**1800**
TVC at 37°C after 2 days	T34	AR	10	cfu/ml	**6100**	**4500**

Index to symbols used in 218850-1

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

Method Index

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

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Ammoniacal nitrogen	T4	AR	50	µg/l	U	001-002
Biochemical Oxygen Demand	T7	AR	3000	µg/l	N	001-002
pH	T7	AR			U	001-002
Atrazine	T16	AR	0.01	µg/l	N	001-002
Trietazine	T16	AR	0.01	µg/l	N	001-002
Benazolin	T16	AR	0.1	µg/l	N	001-002
2,3,6-TCB	T16	AR	0.1	µg/l	N	001-002
Bromide	T253	AR	100	µg/l	WU	001-002
Chloride	T253	AR	200	µg/l	WU	001-002
Sulphate ion	T253	AR	100	µg/l	WU	001-002
Suspended Solids (Total)	T2	AR	10000	µg/l	N	001-002
Dicamba	T16	AR	0.1	µg/l	N	001-002
Hempa	T16	AR	0.1	µg/l	N	001-002
Schradan	T16	AR	0.1	µg/l	N	001-002
Simazine	T16	AR	0.01	µg/l	N	001-002
TVC at 22°C after 3 days	T34	AR	10	cfu/ml	SN	001-002

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
TVC at 37°C after 2 days	T34	AR	10	cfu/ml	SN	001-002

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Scientific Analysis Laboratories

Certificate of Analysis

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Hadfield Street
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Tel : 0161 874 2400
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Report Number: 219447-1

Date of Report: 23-Nov-2010

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

Customer Contact: The Project Management

Customer Job Reference: 907BRI WWTW
Date Job Received at SAL: 17-Nov-2010
Date Analysis Started: 18-Nov-2010
Date Analysis Completed: 23-Nov-2010

The results reported relate to samples received in the laboratory
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Report checked and authorised by :
Amelia McVennon
Project Manager

Issued by :
Amelia McVennon
Project Manager

SAL Reference: 219447
Customer Reference: 907BRI WWTW

Water Analysed as Water
Miscellaneous

					SAL Reference	**219447 001**	**219447 002**
					Customer Sample Reference	**WWTW Discharge**	**WWTW Primary B**
					Date Sampled	**16-NOV-2010**	**16-NOV-2010**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Ammoniacal nitrogen	T4	AR	50	µg/l	<50	<50
Biochemical Oxygen Demand	T7	AR	3000	µg/l	<3000	<3000
pH	T7	AR			**8.0**	**8.0**

SAL Reference: 219447
Customer Reference: 907BRI WWTW

Water Analysed as Water
Suite A

					SAL Reference	**219447 001**	**219447 002**
					Customer Sample Reference	**WWTW Discharge**	**WWTW Primary B**
					Date Sampled	**16-NOV-2010**	**16-NOV-2010**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Atrazine	T16	AR	0.01	µg/l	<0.01	**12**
Trietazine	T16	AR	0.01	µg/l	<0.01	**8.8**

SAL Reference: 219447
Customer Reference: 907BRI WWTW

Water Analysed as Water
Suite B

					SAL Reference	**219447 001**	**219447 002**
					Customer Sample Reference	**WWTW Discharge**	**WWTW Primary B**
					Date Sampled	**16-NOV-2010**	**16-NOV-2010**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Benazolin	T16	AR	0.1	µg/l	<0.1	**1.5**
2,3,6-TCB	T16	AR	0.1	µg/l	**0.9**	**87**

SAL Reference: 219447
Customer Reference: 907BRI WWTW

Water Analysed as Water
Suite C

					SAL Reference	**219447 001**	**219447 002**
					Customer Sample Reference	**WWTW Discharge**	**WWTW Primary B**
					Date Sampled	**16-NOV-2010**	**16-NOV-2010**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Bromide	T253	AR	100	µg/l	(9) <1000	(9) <1000
Chloride	T253	AR	200	µg/l	**150000**	**150000**
Sulphate ion	T253	AR	100	µg/l	**160000**	**160000**
Suspended Solids (Total)	T2	AR	10000	µg/l	<10000	<10000

SAL Reference: 219447
Customer Reference: 907BRI WWTW

Water Analysed as Water
Suite D

	SAL Reference	219447 001	219447 002
	Customer Sample Reference	WWTW Discharge	WWTW Primary B
	Date Sampled	16-NOV-2010	16-NOV-2010

Determinand	Method	Test Sample	LOD	Units		
Dicamba	T16	AR	0.1	µg/l	**0.1**	**4.8**
Hempa	T16	AR	0.1	µg/l	**14**	**11**
Schradan	T16	AR	0.1	µg/l	**24**	**25**
Simazine	T16	AR	0.01	µg/l	<0.01	**1.0**

SAL Reference: 219447
Customer Reference: 907BRI WWTW

Water Analysed as Water
Suite E

	SAL Reference	219447 001	219447 002
	Customer Sample Reference	WWTW Discharge	WWTW Primary B
	Date Sampled	16-NOV-2010	16-NOV-2010

Determinand	Method	Test Sample	LOD	Units		
TVC at 22°C after 3 days	T34	AR	10	cfu/ml	> **10000**	> **10000**
TVC at 37°C after 2 days	T34	AR	10	cfu/ml	**1700**	**1900**

Index to symbols used in 219447-1

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

Method Index

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

Accreditation Summary

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

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

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		