











# **Environmental Monitoring Report**

Reporting Period 03/10/2011-30/10/2011

Former Bayer Crop Science Site Hauxton Cambridgeshire

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## 1.0 Introduction

#### 1.1. General

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

The time period that this report represents is from the 3<sup>rd</sup> of October 2011, until the 30<sup>th</sup> of October 2011.

#### 1.2. The site

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

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

#### 1.3. Remediation Brief and Philosophy

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



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

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

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



# 2.0 Monthly Progress

# Week 82. Week Commencing 3<sup>rd</sup> October 2011

Excavation continued along the south west of the site to generate suitable non impacted marl for restoration to zone 1, adjacent to the Riddy Brook. The tarmac surfaces of the site entrance and former car park to the north of the site were excavated and stored in stockpiles to wait reuse on site, further foundations and structures beneath these areas were removed. A hotspot in grid square E19 was removed and material placed into treatment bed, this excavation was validated and restored with suitably remediated materials. Restoration of remediated soils continued in the south west of the site and along the eastern boundary of the site. Turning of treatment beds continues to promote biological degradation and dry the material in preparation for reinstatement. Breaking out of concrete slab and foundations continued in the south of the site in the area of the high bay warehouse, concrete crushing continued to process the hard materials excavated from the south of the site to make them suitable for reuse.

## Week 83. Week Commencing 10<sup>th</sup> October 2011

Excavation continued in the area of the site entrance to the west of the site, hydrocarbon impacted soils, foundations and structures beneath this area were removed. Restoration of remediated soils continued in the south west and south east of the site. Turning of treatment beds continues to promote biological degradation and dry the material in preparation for reinstatement. Validation and trial pitting exercises were undertaking in non impacted areas to the south of the site. Breaking out of concrete slab and foundations continued in the south of the site in the area of the high bay warehouse, concrete crushing continued to process the hard materials excavated from the south of the site to make them suitable for reuse. The stockpile of sand suitable for reuse was moved from the south of the site towards the centre of the site, to allow final formation levels to commence in the south of the site.

## Week 84. Week Commencing 17<sup>th</sup> October 2011

Restoration of remediated soils continued in the south west of the site, with the hard to dig crushed concrete layer being applied to the south east of the site. Turning of treatment beds continues to promote biological degradation and dry the material in preparation for



reinstatement. Validation and trial pitting exercises were undertaking in non impacted areas to the south of the site. Concrete crushing continued to process the hard materials excavated from the south of the site to make them suitable for reuse.

## Week 85. Week Commencing 24th October 2011

Minor excavation was undertaken in grid square C17 to remove made ground unsuitable for zone 1, this materials was placed in zone 3 towards the south west corner of the site. Restoration of remediated soils continued in the south west of the site, followed by the hard to dig crushed concrete layer being applied to the south west of the site. Restoration was also undertaken on the western side of the site around the site entrances, again followed by the hard to dig crushed concrete layer. Validation and trial pitting exercises were undertaking in areas to the south of the site. The on site lagoons adjacent to the site entrance were decommissioned, followed by excavation, validation and restoration in this area. A water main diversion was installed by an approved contactor around the north western corner of the site.



## 3.0 Environmental Monitoring Summary

The environmental monitoring locations detailed in the Environmental Permit deployment form for the site are highlighted in drawing D907\_33C in Appendix A.

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

#### 3.1. Odour and VOC Emissions

Odour and VOC monitoring around the site boundary commenced on the 22<sup>nd</sup> 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.

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

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

The Environmental Engineers have logged the actions undertaken on site to reduce the impact of VOC/odours off site, these are noted in the environmental monitoring data in Appendix B. All mitigation measures have been in accordance with the actions stipulated in the deployment form, including some additional actions to reduce the potential of odour nuisance e.g. repositioning of mobile odour control systems.



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

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

The results for the long term passive VOC monitoring carried out between 08/09/2011 and 07/10/2011 are reported in appendix C, however the monitoring point SE was lost and this data is missing from the record. The analysis undertaken for this monitoring period indicates that the all of the VOC's detected are around the baseline and are well below the levels considered to be within acceptable limits for published criteria.

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

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

#### 3.2. Dust Fibre and Particulate Emission

Both real time dust measurement and long term dust deposition monitoring has been undertaken around the site boundary at six compass point locations, north, east, south, west with two monitoring positions in the northeast (drawing D907 30C, Appendix A).



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

Dust particle measurements at each monitoring location have varied, with the higher dust readings being generally at the locations adjacent to the heavily trafficked Cambridge Road (A10). The average Total Suspended Particulates (TSP) reading around the site is 140.91µg/m³, the average PM10 dust reading around the site is 61.11µg/m³. 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 12/09/2011 to 10/10/2011 (3 locations monitored only due to 3# damaged on site) recorded a maximum dust deposition rate of 2.89%EAC at the southern monitoring location. All other locations had a maximum dust deposition rate of 1.64%EAC, or less.

Dust monitoring undertaken from the 10/10/2011 to 24/10/2011 (6 locations monitored) recorded a maximum dust deposition rate of 3.64%EAC at the southern monitoring location. All other locations had a maximum dust deposition rate of 1.64%EAC, or less.

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 during the reporting period to allow all maintenance, plant delivery and off site disposal vehicles leaving contaminated parts of the site to be washed down thoroughly first, as not to take potentially contaminated mud and debris through the clean zone and off site. The movement of vehicles between the contaminated and clean parts of the site is strictly controlled by the site management team.

#### 3.4. Noise

Noise monitoring around the site boundary commenced on the 22<sup>nd</sup> March 2010 and has been undertaken twice daily as a minimum, recording findings at eight compass points around the site boundary in the public access areas (drawing D907\_30C, Appendix A).

Site operations are restricted to 8am to 6pm and site noise levels are consistently at an average acceptable low background level of 68dB. Exceedance's of the 80dB threshold (stipulated in the Environmental Permit deployment document) have been recorded during the monitoring period, however traffic along the A10 has been identified as the source of the slightly elevated noise levels. Data is recorded in the environmental monitoring data spreadsheet, Appendix B.

### 3.5. Litter

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



## 4.0 Surface and Ground Water Condition

## 4.1. Surface Water Monitoring

As part of the environmental monitoring programme, the Riddy Brook located to the east of the site (Drawing D907\_33C, Appendix A) is inspected daily as a minimum at two locations up and down stream for general observations, on any discolouration, sedimentation etc. The observations are recorded on the Environmental Monitoring Data (Appendix B). Throughout the monitoring period there have been no visual signs that the remediation works on site are having any impact on the Riddy Brook.

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

During the monitoring period there have not been any significant changes in levels along the Riddy Brook.

## 4.2. Surface Water Sampling and Analysis

Upstream and downstream water samples from both the River Cam (Granta) and the Riddy Brook are taken on a monthly basis. The results for samples taken on the 30<sup>th</sup> September 2011 and 28<sup>th</sup> of October are presented in appendix F.

The surface water analysis of both the  $30^{th}$  of September and the  $28^{th}$  October 2011 shows trace levels Tetrachloroethylene (3 µg/l) detected in all surface water samples analysed, River Cam (Granta) up and down stream and the Riddy Brook up stream and down stream.

These trace levels identified in both September and October 2011 sampling rounds has been recorded in the baseline data collected prior to the commencement of the remediation project and are not related to a specific site incident.



## 4.3. Groundwater Level Monitoring

Groundwater levels are recorded within at least 10 borehole locations onsite on a twice weekly 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.

The groundwater levels measured at locations around the site are shown in drawing D907\_31G, in appendix A. The groundwater levels are presented in Appendix E.

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

The graph constructed (Appendix G) illustrates that there have been little changes to groundwater levels within the boreholes across the site during the monitoring period. However on the 8<sup>th</sup> of September the high bay warehouse pump was switched off and pumping of a deep groundwater (4m+ below ground level) was undertaken on the southern most boundary this change in pumping regime can be seen in the responses in boreholes BH6/06 on the southern boundary and in BHB1 in front of the high bay warehouse. On the 15<sup>th</sup> of September pumping groundwater from the in front of the high bay warehouse resumed, and the water in the aforementioned monitoring wells returned to their pre 08/09/2011 levels.

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



## 4.4. Groundwater Sampling and Analysis

Groundwater samples from 11 monitoring locations on site, where possible are taken on a monthly basis. The results for samples taken on the 30<sup>th</sup> September 2011 and the 26<sup>th</sup> of October are presented in appendix F

The contaminant concentrations present in the samples taken on the 30<sup>th</sup> of September and the 26<sup>th</sup> of October 2011, show considerable reduction in concentration of the main contaminants in the groundwater samples in comparison to the sites original baseline data due to the site having undergone remediation.



## 5.0 Waste Water Treatment Plant

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

The WWTP has been previously operated (until the 15<sup>th</sup> 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 monthly samples are analytically tested for the water quality parameters and the chemical compounds specified in paragraph 1.7.1 of the discharge consent PR1NF/1744 D 01. The data is tabulated and presented in Appendix H along with the raw data from the laboratory reports.



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

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



## 6.0 Contaminants Not Previously Identified

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

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

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

From the commencement of site works (15/03/2010) to 30/10/2011, one hundred and eighty five 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. Forty characterisation samples analysed contained a total of twenty five compounds / potential contaminants that had not been previously identified.

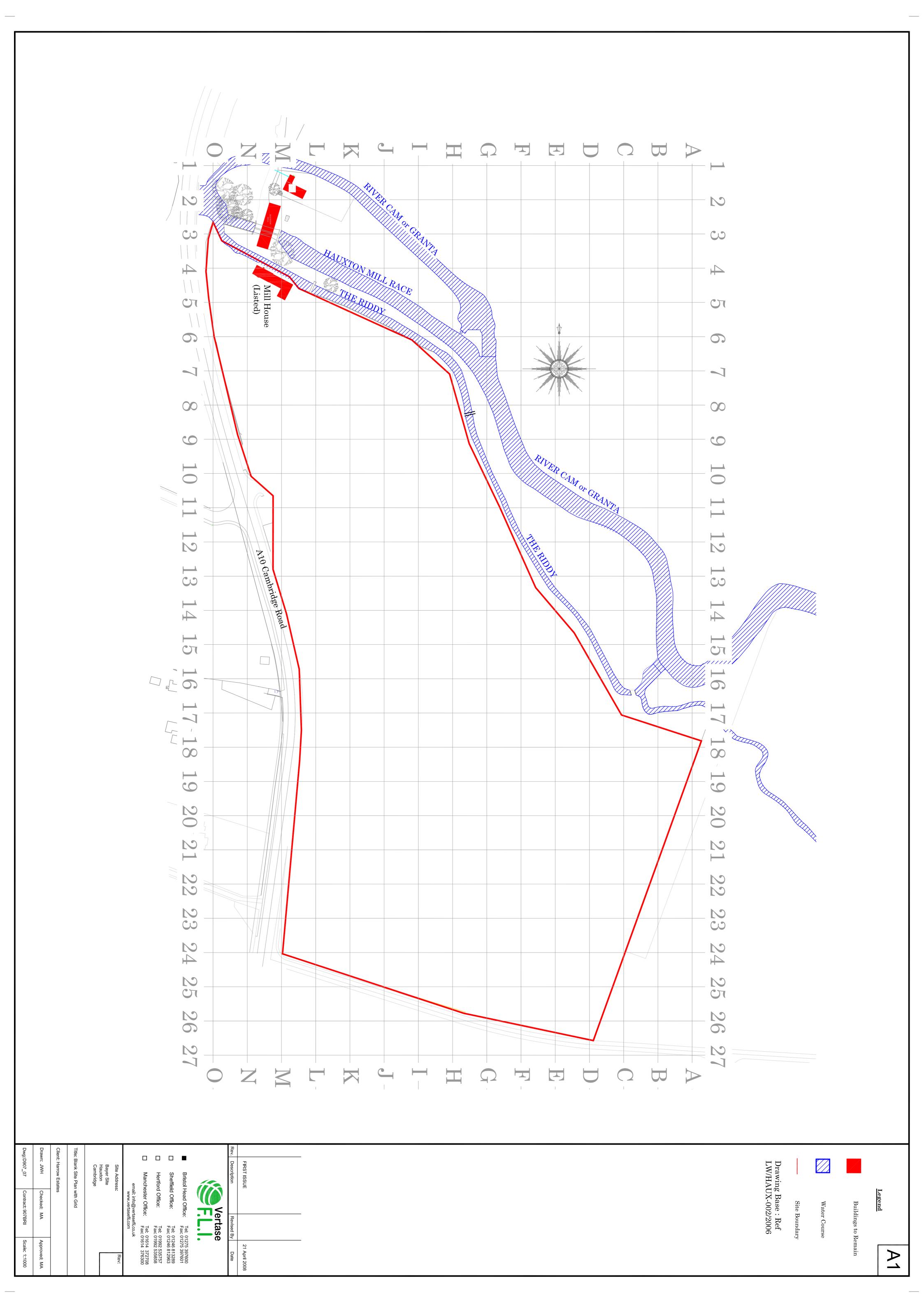
A summary table of the soil characterisation testing is presented in Appendix I, the previously unidentified compounds are listed here, with comments regarding the origin and likely usage on site.

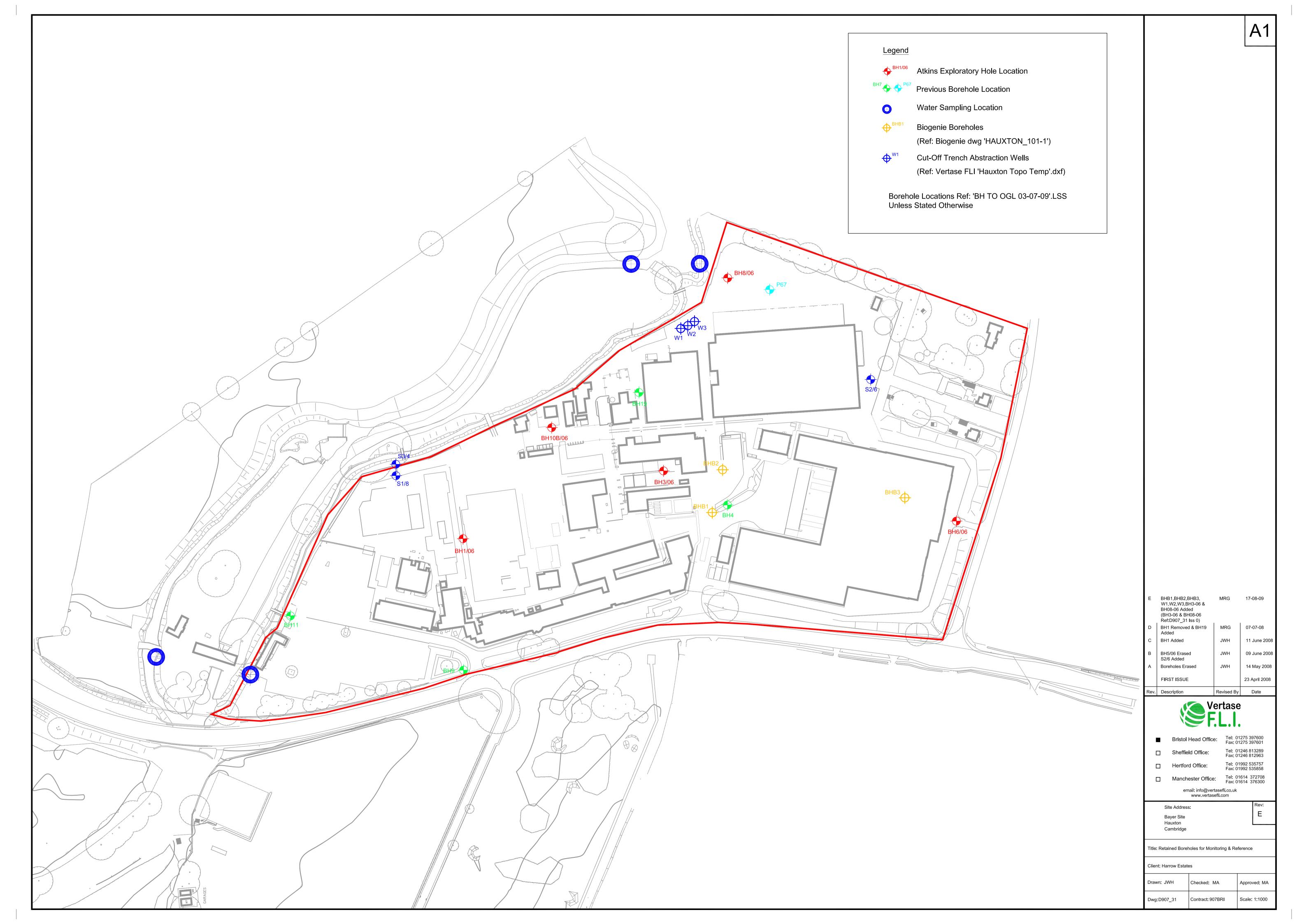
The remediation project consultants Atkins continuously review the soil characterisation analysis and report previously unidentified contaminates in accordance with condition 9, Planning Condition Document ref:S/2307/06/f Issued 10/02/2010.

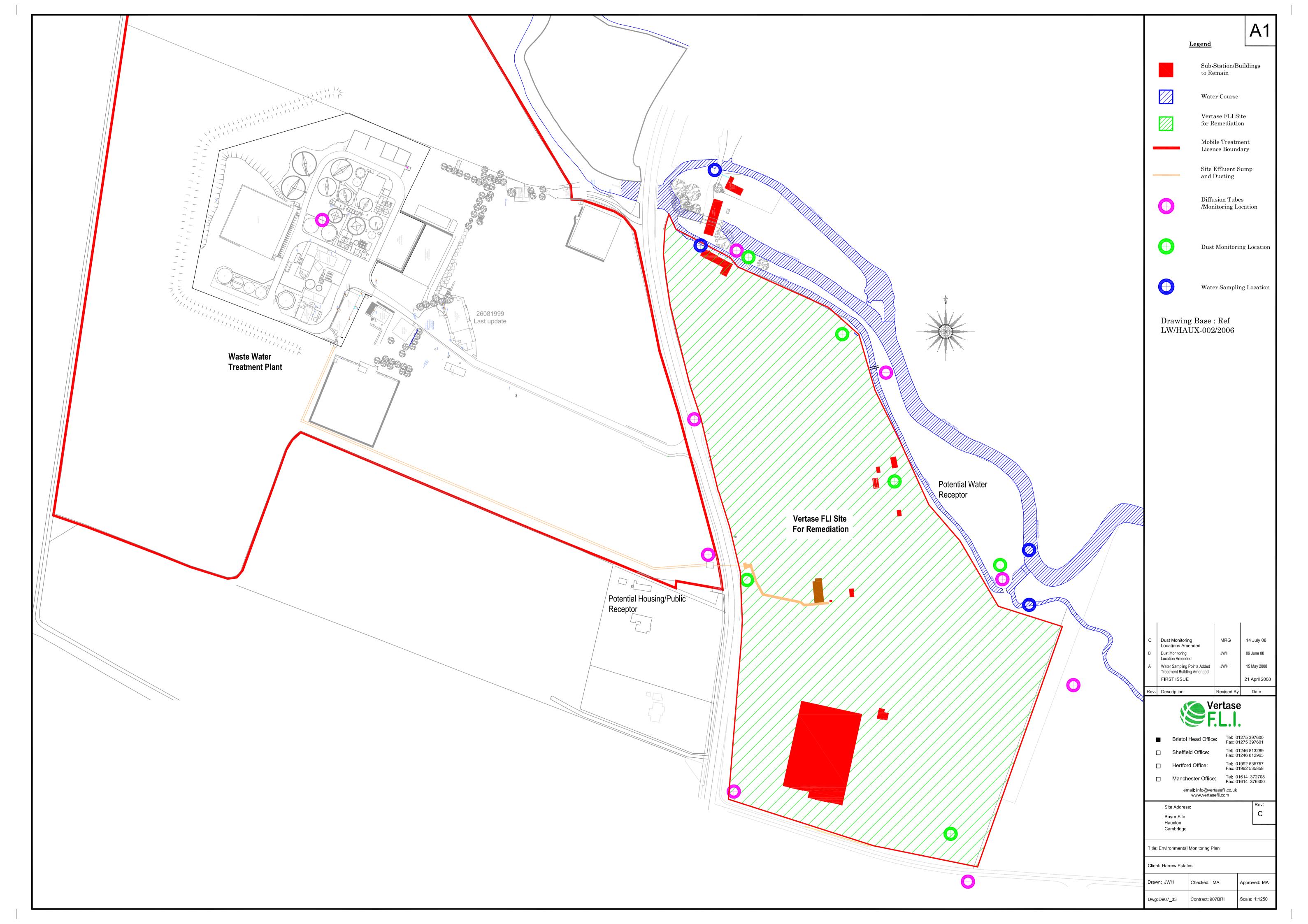


Appendix A

**Drawings** 









Appendix B

**Environmental Monitoring Data** 

					ODOUR				DUST	NOISE	E UTI	TER .	RIDD	BROOK	ì		MET	EOROLOGICA	L AND ENVIRONMEN	NTAL CONDITIONS	
Assessor Date	Daily Activity	Boundary Start Finis	sh Detectability se (Yes or No)	Intensity (1 to 9)	Quality (Description)	Hedonic Locati Tone Sensiti	ion Odour ivity Source	PID (nom)	TSP PM1	Avera (48a	ge Present	Materials attracting	Inspection	Water Level (mAOD)	Complaints	Action Required	Wind Speed	Wind Air Temp	Description (Rain, Sun)	Cloud Ground Cover Conditions	
I Stephenson 3/10/201	1 excavating in grids F19/bed turning/concrete crushing		45 n	(1 20 3)		(-3 to+3) (1 to:	5) (1 to 5)	(ppm)		(GDS	no	scavengers no	clear	19	n	ń	(1 to 6)	SSW 18	mist	(0 to 8) (Wet, dry) 8 dry	General Notes to odour at church
I Stepherson 3/10/201 I Stepherson 3/10/201	Seconding in grids F19/bed tuming/concrete crushing	N 10.40 10. NE 10.35 10. NE1 10.30 10.	40 h			2		,		68.3	no	10	clear		n n	0					
Stephenson 3/10/201   Stephenson 3/10/201   Stephenson 3/10/201	1 excavating in grids F19/bad turning/concrete crushing 1 excavating in grids F19/bad turning/concrete crushing 4 excavating in grids F19/bad turning/concrete crushing	SE 10.20 10.	30 n 25 n	==		3				63.4 20.8	no no	100	CNNAF	28	n n	n n					
I Stephenson 3/10/201	Inscription in page Problem (Inscription of Control of	SE 10.20 10. S 10.15 10. SW 10.10 10. W 10.05 10.	15 n	#		4				81.4 25.4	00	00			9	9		_			
Stephenson 3/10/201 Stephenson 3/10/201	1 excavating in grids F19/bad turning/concrete crushing 1 excavating in grids F19/bad turning/concrete crushing	W 10.05 10. NW 10.00 10. N 17.50 17.	05 n 55 n	=		2 2				73.2	00	100	clear	19	n	0	9	SW 27	sunny	1 dry	no odour at church
Stephenson 3/10/201	1 excavating in grids F19/bed turning/concrete crushing 1 excavating in grids F19/bed turning/concrete crushing	NE 17.45 17. NE1 17.40 17. E 17.35 17.	50 y 46	4 9	river weed	-2 2	1 (			61.1	no	100	dear		n n	0					
Stephenson 3/10/201   Stephenson 3/10/201	1 excavating in grids F19/bed turning/concrete crushing 1 excavating in grids F19/bed turning/concrete crushing	E 17.35 17. SE 17.30 17.	40 n 35 n	=		3		)		63.7	no	no no	clear	28	n	0					
Stephenson 3/10/201	1 excavating in grids F19/bed turning/concrete crushing 1 excavating in grids F19/bed turning/concrete crushing 1 excavating in grids F19/bed turning/concrete crushing	SE 17.30 17. S 17.25 17. SW 17.20 17.	30 n 25 y	5 0	car fumes and hot tyres	3 1 4	-			65.1 82.4	no no	no no			n	0					
I Stephenson 3/10/201 I Stephenson 3/10/201 M Allsobrook 4/10/201	1 excavating in grids F19/bed turning/concrete crushing 1 excavating in grids F19/bed turning/concrete crushing 1 excavating in grids F19/bed turning/concrete crushing/restoring material	W 17.15 17. NW 17.10 17. N 10.45 10.	20in 15in			2				79.3 78.9	no no	no no			n n	n n					
M Alisobrook 4/10/201	1 excavating in grids F19/bed turning/concrete crushing/restoring material 1 excavating in grids F19/bed turning/concrete crushing/restoring material	NE 10.56 11.	50 n 01 n	=		2		38:	2 9.1 2 8.9	62.2	00	no no	clear	2			9	V 24	sunny	2 dry	
M Alisobrook 4/10/201 M Alisobrook 4/10/201	excavating in grids F19/bad turning/concrete crushing/restoring material     excavating in grids F19/bad turning/concrete crushing/restoring material     excavating in grids F19/bad turning/concrete crushing/restoring material	NE1 11.03 11. E 11.10 11.	15 n			2		) 16.	7 14.5	54.8	no	no	clear	2.9							
M Alisobrook 4/10/201 M Alisobrook 4/10/201 M Alisobrook 4/10/201	1 excavating in grids F19/bed turning/concrete crushing/restoring material 1 excavating in grids F19/bed turning/concrete crushing/restoring material 1 excavating in grids F19/bed turning/concrete crushing/restoring material	SE 11.16 11. S 11.23 11. SW 11.30 11.	28 y 33 v	2 9	traffic traffic	-1 3 -1 4		47.	2 31.9	58.7 77.6	00	00 00						_			
M Alisobrook 4/10/201 M Alisobrook 4/10/201	1 excavating in grids F19/bed turning/concrete crushing/restoring material 1 excavating in grids F19/bed turning/concrete crushing/restoring material 1 excavating in grids F19/bed turning/concrete crushing/restoration	W 11.36 11. NW 11.42 11.	41 y 47 n	1 4	vegetation	0 4	-	25.0	6 16.7	80.4	00	00									
Stephenson 4/10/201	1 excavating in grids F19/bed turning/concrete crushing/restoration 1 excavating in grids F19/bed turning/concrete crushing/restoration		15 n 10 n	+		2	_	71.0	6 44.7 8 39	68 72	no	no i	clear		n	0	8	vsw 19	sunny spells	6 dry	no odour at church
Stephenson   4/10/201   Stephenson   4/10/201   Stephenson   4/10/201	Inscision in edit FTMed tempotoment cushing interestion conception in edit FTMed tempotoment cushing interestion secretarian edit per FTMed tempotoment cenhangelessation secretarian edit per FTMed tempotoment cenhangelessation consisting in performance in tempotoment cenhangelessation secretarian edit per FTMed tempotoment cenhangelessation secretarian edit per FTMed tempotoment cenhangelessation secretarian edit per tempotoment cenhangelessation secretarian edit per tempotoment cenhangelessation secretarian edit per tempotoment cenhangelessation secretarian edit per tempotoment cenhangelessation secretarian editorial tempotoment cenhangelessation secretarial editorial tempotoment cenh	NE 17.05 17. NE1 17.00 17. E 16.55 17.	05 00 n			2	ľ	49: 384	2 99.6 4 89.8	71	no	no	clear		n	8					
I Stephenson 4/10/201 I Stephenson 4/10/201	1 excavating in grids F19/bed turning/concrete crushing/restoration 1 excavating in grids F19/bed turning/concrete crushing/restoration	SE 16.50 16. S 16.45 16. SW 16.40 16.	55 n 50 n			3		272	2 79	70	no	no no			n n	n n					
I Stephenson 4/10/201 I Stephenson 4/10/201	1 excavating in grids F19/bed turning/concrete crushing/restoration 1 excavating in grids F19/bed turning/concrete crushing/restoration	W 16.35 16.	40 y 40 y	- 0	car fumes car fumes	1 4		217	7 71	78	00	no no			n	n A					
Stephenson 4/10/201   Stephenson 5/10/201   Stephenson 5/10/201	l excavating in grids-bed turning/concrete crushing/restoration  1 excavating in grids-bed turning/concrete crushing/restoration	W 16.35 16. NW 16.30 16. N 9.55 10. NE 9.50 9.	30 m 00 n	=		2				85.6 61.6	00	00	clear	1.85	n	6	4	w 18	sunny	2 dry	no odour at church, dustmate on charge
Stephenson   5/10/201   Stephenson   5/10/201	1 excavating in grids/bed turning/concrete crushing/restoration	NE1 9.45 9. E 9.40 9. SE 9.35 9.	50 45 n			2				72.1	no	no	clear	2.75	n n	0.00		=			
Stephenson 5/10/201   Stephenson 5/10/201	1 excavating in grids/bad turning/concrete crushing/vastoration 1 excavating in grids/bad turning/concrete crushing/vastoration 1 excavating in grids/bad turning/concrete crushing/vastoration	SE 9.35 9. S 9.30 9.	40 n 35 n	Ħ		3				70 58.2	00 00	no no			ń n	0					
Stephenson 5/10/201 Stephenson 5/10/201	tercevesting in grids/bad turning/concrete crushing/restoration     excevesting in grids/bad turning/concrete crushing/restoration     excevesting in grids/bad turning/concrete crushing/restoration	S 9.30 9. SW 9.25 9. W 9.20 9.	30 in 25 y	2 0	carfumes	0 4	, (			70.9 78	no no	no no			n n	0					
Stephenson 5/10/201 Stephenson 5/10/201	excevating in grids/bed turning/concrete crushing/restoration 1 excevating in grids/bed turning/concrete crushing/restoration	NW 9.15 9. N 15.23 15.	20in 28 n	Ħ	·	2		78	111	76.4	no no	no no	clear	1.85	n	0	9	SW 21	sunny	2 dry	no odour at church
Stephenson   5/10/201   Stephenson   5/10/201   Stephenson   5/10/201	1 excevating in grids/bed turning/concrete crushing/restoration 1 excevating in grids/bed turning/concrete crushing/restoration 1 excevating in grids/bed turning/concrete crushing/restoration	NE 15.29 15. NE1 15.35 15. E 15.42 15.	3+(f) 40	=		2		307 323 323	7 145 3 148	70	no	m0	chear clear	205	n	0	H				
Stepherson   5/10/201   Stepherson   5/10/201   Stepherson   5/10/201	1 excavating in grids/bed turning/concrete crushing/restoration 1 excavating in grids/bed turning/concrete crushing/restoration 1 excavating in grids/bed turning/concrete crushing/restoration	SE 15.48 15.	47 n 53 n			3			5 331	68	00	10	CNAF	2.85	n	8					
Stepherson   5/10/201   Stepherson   5/10/201   Stepherson   5/10/201	1 isrcavvising in grids/bed turning/concrete crushing/visitoristion 1 isrcavvising in grids/bed turning/concrete crushing/visitoristion 1 isrcavvising in grids/bed turning/concrete crushing/visitoristion	S 15.54 15. SW 16.02 16. W 16.08 16.	07 n 13 n	+		3 4 4		) 476 ) 335	5 167	74 79	no no	100			n n	0 0	H				
Stephenson   5/10/201   Stephenson   6/10/201	excavating in grids/bed turning/concrete crushing/restoration     excavating in grids/bed turning/concrete crushing	NW 16.14 16. N 9.40 9. NE 9.35 9.	19 n 46 n	#		2 2		204	4 139	68	00	00	clear	1.85	n n	0	12	VSW 16	sunny	3 dry	no odour at church
Stephenson 6/10/201   Stephenson 6/10/201	excavating in grids/bed turning/concrete crushing     excavating in grids/bed turning/concrete crushing	NE 9.35 9. NE1 9.30 9.	40 n 35			2		589	9 132 7 87.2	67	no	no	clear		n	9					
Stephenson 6/10/201 Stephenson 6/10/201	1 excavating in grids/bed turning/concrete crushing 1 excavating in grids/bed turning/concrete crushing	NE1 9.30 9. E 9.25 9. SE 9.20 9.	30 n 25 n			3		773	3 68	68	00	no no	clear	2.85	n	8					
Stephenson 6/10/201 Stephenson 6/10/201	1 excevating in grids/bed turning/concrete crushing 1 excevation in prids/bed turning/concrete crushing	S 9.15 9. SW 9.10 9. W 9.05 9.	20 n 15 n			3 4		152	2 114	71 82	no no	no no			n n	8					
I Stephenson 6/10/201 I Stephenson 6/10/201	excavating in grids/bed turning/concrete crushing     excavating in grids/bed turning/concrete crushing	W 9.05 9. NW 9.00 9. N 17.40 17. NF 17.95 17.	10 n 05 n	=		2		65	197	79	00	no no			n n	n n		VSW 19			no odour at church
Stephenson 6/10/201 Stephenson 6/10/201	1 excavating in grids/bed turning/concrete crushing 1 excavating in grids/bed turning/concrete crushing	N 17.40 17. NE 17.36 17.	40 n 40 n			2		758	3 162 8 165	68	no no	10	clear	1.85	n n	8	16	VSW 19	sunny	4 dry	ED ODDOX as CHURCH
I Stephenson 6/10/201	accounting in gridabled surreproporative counting	E 17.25 17.	30 n	=		2		431	1 139	66	00	00	clear	2.85	9	9		_			
Stepherson   6/10/201   Stepherson   6/10/201	texcavating in grids-bed turning/concrete crushing	S 17.15 17. SW 17.10 17.	20 n 15 v	3 6	car fumes	0 4	1	71	106	69 79	00	100			n	0					
Stephenson   6/10/201   Stephenson   6/10/201	1 excevating in grids/bed turning/concrete crushing	SE 17.20 17: S 17.15 17: SW 17.10 17: W 17.05 17: NW 17.00 17:	10 y 05 y	4 6 3 6	car fumes car fumes and asphalt car fumes	0 4	-	138	3 106	77	00	no no			n	8					
I Stephenson 7/10/201 I Stephenson 7/10/201 I Stephenson 7/10/201	1 bad tuming/concrete crushing/testoration 1 bad tuming/concrete crushing/testoration 1 bad tuming/concrete crushing/testoration	N 9.40 9. NE 9.35 9. NE1 9.30 9.	45 n 40 n	$\perp \perp$		2		0 444 0 64 43	4 51 45	65 63	no no	no no	clear	1.85	n n	n n	3	W 12	doudy	8 dry	no odour at church
Stephenson	1 bed turning/concrete crushing/restoration 1 bed turning/concrete crushing/restoration	E 9.25 9. SE 9.20 9. S 9.15 9.	30 n			2		30	25 56	70	no	no	clear	2.85	n	n A					
Stephenson   7/10/201   Stephenson   7/10/201   Stephenson   7/10/201	bed saming/concrete crushing/systosation  Led saming/concrete crushing/systosation  Led saming/concrete crushing/systosation  Led saming/concrete crushing/systosation  bed saming/concrete crushing/systosation	S 9.15 9.	20 n		car fumes	3		38	89	72	00	10			n	8					
I Stephenson 7/10/201 I Stephenson 7/10/201	1 bed turning/concrete crushing/restoration	SW 9.10 9. W 9.05 9. NW 9.00 9.	10 y 05 y	4 0	car funes car funes wet veg	0 4		88	80	74	no no	no no			n n	0					
I Stephenson 7/10/201 I Stephenson 7/10/201	bed suming/concrete crushing/lestoration     excevering in grids/bed turning/concrete crushing/restoration     kecavating in grids/bed turning/concrete crushing/restoration	N 14.40 14.	45 y 40 y	3 w	wet veg	-1 2 -1 2	-	57	113 5 61	71.1 67.9	no no	no no	dear	1.85	n	n n	6	eW 19	sunny spells/shower	s 6 wet	no odour at church
I Stephenson 7/10/201 I Stephenson 7/10/201	excavating in grids/bed turning/concrete crushing/restoration     excavating in grids/bed turning/concrete crushing/restoration	NE 14.35 14. NE1 14.30 14. E 14.25 14.	35 30 y		wetveg	-2 2	1 0	48	69 7 91	61.3	no	no	clear clear	2.85	ń	n n					
Stephenson   7/10/201   Stephenson   7/10/201   Stephenson   7/10/201	1 excevating in grids/bed turning/concrete crushing/restoration 1 excevating in grids/bed turning/concrete crushing/restoration 1 excevating in grids/bed turning/concrete crushing/restoration	SE 14.20 14. S 14.15 14.	25 y 20 y		wet veg wet asphalt & veg wet asphalt & veg	-1 3 -1 3	1 6	233	3 94	59.2 64.8	00	no no			n	n n					
Stephenson 7/10/201	1 excavating in grids/bed turning/concrete crushing/restoration	S 14.15 14. SW 14.10 14. W 14.05 14.	10 y	4 w	wer asphalt wer asphalt wer asphalt	0 4		132	2 54	80.5	no	no			n	8					
Stephenson 10/10/201   Stephenson 10/10/201	1 excessing in grids/bed turning/concrete crushing/restoration 1 excessing in grids/bed turning/concrete crushing/restoration	NW 14.00 14. N 10.40 10. NE 10.35 10.	45 n	Ĭ	wes asperas	2		27	81	71	no	no no	clear	1.85	n	1	14	vsw 22	sunny	3 dry	no odpur at church
I Stephenson 10/10/201 I Stephenson 10/10/201	1 excavating in grids/bed turning/concrete crushing/testoration 1 excavating in grids/bed turning/concrete crushing/testoration	NE1 10.30 10. E 10.25 10.	36 30 n			2		50	131 2 56	65.4	no	no	clear	2.85	n n	0					
Stepherson 10/10/201 Stepherson 10/10/201	excavating in grids/bed turning/concrete crushing/restoration     excavating in grids/bed turning/concrete crushing/restoration	SE 10.20 10. S 10.15 10.	25 n 20 y	3 9	asphalt	3 0 3	, (	39	87	69.1 78.2	no no	no no			n n	ń.					
Stephenson 10/10/201 Stephenson 10/10/201	escensing in globaled soring occurses counting transverses accounting in globaled soring occurses counting transverses accounting in globaled soring occurses accounting in globaled soring occurses accounting in globaled soring occurses occursion globaled accounting in globaled suring occurses occursion globaled accounting in globaled suring occurses outside globaled accounting in globaled accounting accountin	NE1 10.30 10. E 10.25 10. SE 10.20 10. S 10.15 10. SW 10.10 10. W 10.05 10.	15 y 10 y	4 0	asphalt car fumes and asphalt car fumes and veg car fumes and asphalt	-1 4	1 1	123	3 41	73.7 78.9	no no	no no			n	0					
Stephenson   10/10/201   Stephenson   10/10/201	terceveting in grids/bed turning/concrete crushing/restoration     terceveting in grids/bed turning/concrete crushing     terceveting in grids/bed turning/concrete crushing     terceveting in grids/bed turning/concrete crushing	NW 10.00 10. N 15.20 15. NE 15.28 15.	25 n	-	cur rumes and asphalt	2 2		5.2	4.4	70 70	no no	00 00	clear	1.9	n	0	15	VSW 24	sunny	3 dry	no odour at church
Stephenson   10/10/201   Stephenson   10/10/201   Stephenson   10/10/201	1 excessing in gridsbed turning/concrete crushing 1 excessing in gridsbed turning/concrete crushing	NE1 15.32 15. E 15.38 15.	37 43 n	=		2		8.7 38.2	4.3 4.5	63	no	00	clear	2.9	n n	0 0	H				
Stephenson   10/10/201   Stephenson   10/10/201	I accounting in gristabled turning/concrete crushing I accounting in gristabled turning/consets crushing I accounting in gristabled turning/concets crushing I accounting in gristabled turning/concets crushing I accounting in gristabled turning/concets crushing I accounting in gristabled turning/concents crushing	NE1 15.32 15. E 15.38 15. SE 15.44 15. S 15.90 15. SW 15.57 16.	49 n 55 n	Ħ		3 3		3 82	4.6	68 73	no no	no no			n	9	H	= -		$\vdash$	
Stephenson   10/10/201   Stephenson   10/10/201	1 excessiting in grids/bed turning/concrete crushing 1 excessiting in grids/bed turning/concrete crushing	SW 15.57 16. W 16.03 16.	02 n 08 y	3 6	car fumes	-1 4	1	4.5	9.3	68 72	no no	no no			n n	0	L	<u> </u>			
I Stephenson 10/10/201 I Stephenson 10/10/201 I Stephenson 11/10/201	Inscripting in platicabed surring-controlle coupling secondaria problem surring-controlle coupling secondaria problem surring-controlle coupling secondaria problem surring-controlle coupling secondaria problem surring-controlle coupling-secondaria secondaria problem surring-secondaria secondaria problem surring- secondaria problem surring-secondaria secondaria secondaria secondaria secondaria secondaria secondaria secondaria secondaria secondaria secondaria secondaria secondaria secondaria seconda	W 16.03 16. NW 16.09 16. N 9.40 9.	14 n 45 n	Ħ		2 2		61	60	74 59.5	no no	no no	clear	1.9	n n	0	4	V 15	dry	8 dry	
Stephenson   11/10/201   Stephenson   11/10/201	excavating in grids/bed turning/concrete crushing/restoration 1 excavating in grids/bed turning/concrete crushing/restoration				·	2		233	3 34 29	60.5	no	no	clear		n n	0.00	Ы			$\Box$	
Stephenson 11/10/201	excerveing in grids/bed turning/concrete crushing/restoration 1 excervising in grids/bed turning/concrete crushing/restoration	NE1 9.30 9. E 9.25 9. SE 9.20 9.	3010 25 n	=		3		45	49	48.8 63.8	no no	no no	cwâf	4.0	ń	0		=			
Stephenson   11/10/201   Stephenson   11/10/201   Stephenson   11/10/201	excavating in grids/bad turning/concrete crushing/restoration     excavating in grids/bad turning/concrete crushing/restoration     excavating in grids/bad turning/concrete crushing/restoration	S 9.15 9. SW 9.10 9. W 9.05 9.	15 n	Ħ		4		97	7 23	70.9	00 00	no no			0	0	ш				
Stephenson   11/10/201   Stephenson   11/10/201	excavating in grids-bad turning/concrete crushing/esteration   excavating in grids-bad turning/concrete crushing/esteration   excavating in grids-bad turning/concrete crushing/esteration	NW 9.00 9.	05 n 15 n	Ħ		2 2		644	4 78	79.3 70.6	no no	no no	clear	1.9	n n	0.00	13	V 17	Dry	7 dry	no odour at church, no obvious excessive dust generation from the churc
Stephenson 11/10/201 I Stephenson 11/10/201	1 excavating in grids/bed turning/concrete crushing/restoration 1 excavating in grids/bed turning/concrete crushing/restoration	N 17.10 17. NE 17.05 17. NE1 17.00 17.	10 y 05	4 9	solvent odour	1 2	5 0	193	3 42 0 235	63.1	no	no	clear		n n	non-isolated due to drilling n	H	<u> </u>		<u>L</u>	
Stephenson   11/10/201   Stephenson   11/10/201	excavating in grids/bed turning/concrete crushing/restoration     excavating in grids/bed turning/concrete crushing/restoration	E 16.55 17. SE 16.50 16.	00 n 56 y		slight concrete odour	0 3	2	375	5 75	63.4 65.1	no no	no no	clear	2.8	n n	n check dust suppression on site - satisfa	ictory				
Stephenson   11/10/201   Stephenson   11/10/201		S 16.45 16. SW 16.40 16. W 16.35 16.	50ty 45 ty		vegfbush car fumes	0 3	1 7	694	4 118	72.4	no no	no no			n	0		=E			
Stephenson 11/10/201	accounting in glidsheld unrenigloconcess coulships described in scounting in glidsheld unrenigloconcess coulships described scounting in glidsheld unrenigloconcess coulships association scounting in glidsheld unrenigloconcess coulshing scounting in glidsheld unrenigloconcess coulshing scounting in glidsheld unrenigloconcess coulshing scounting in glidsheld unrenigloconcess coulshing scounting in glidsheld unrenigloconcess coulshing	vv 16.35 16. NW 16.30 16.	4010 35 n	Ħ		2		841	29	67.9	no no	00 00	olone	10	n	0			numer one *-	2 4:	to action or about an authorize of dust appropriate fage - have a heart
Stephenson   12/10/201   Stephenson   12/10/201   Stephenson   12/10/201	- managering of gravities currenge concern clushing - excessing in grids bed turning/concern cousing - temperation in criticized projection countries	NW 16.30 16. N 12.40 12. NE 12.35 12. NE1 12.30 12.	40 n	#		2		0 8.7 0 105	4.5 5.2 35.9 3 01.0	62.8	00	no on	clear clear		i i	8	1.5	. 18	sunny spells	, aly	to odour at church, no evidence of dust generation from site at church
Stephenson   12/10/201   Stephenson   12/10/201   Stephenson   12/10/201		NET 12.30 12. NET 12.30 12. E 12.30 12. SE 12.20 12. S 12.15 12. SW 12.10 12. WW 12.00 12. NW 12.00 12. NW 17.51 17. NET 17.45 17. NET 17.45 17.	30 n 25 v	2 4	slightly dusty smell	0 3		12.	1 13	66.6	no no	00	clear	2.85	n n	0 0	H				
Stephenson   12/10/201   Stephenson   12/10/201	texcevering in grids/bed turning/concrete crushing	S 12.15 12 SW 12.10 12	20 n 15 y		warm grass/veg	3 1	-	112	9 6.1	63.8	no no	no no			n n	0.00		=			
Stephenson   12/10/201   Stephenson   12/10/201   Stephenson   12/10/201	1 excevating in grids/bed turning/concrete crushing 1 excevating in grids/bed turning/concrete crushing	W 12.05 12 NW 12.00 12	10 y 05 y		corifers car fumes and wet asphalt	0 2	1 (	76.	3 11.1	75.5 78.1	00	no no			n n	6					
M Alisobrook 12/10/201 M Alisobrook 12/10/201	I laccovating in gristabled turning/concrete crushing I accovating in gristabled turning/concents crushing I accovating in grists H200concrete crushing	N 17.51 17. NE 17.46 17.	36 y 50 y	2 7	vegetation vegetation	0 2 1 2		38.	1 35.7 3.5 32.4	57.4 60.1	no no	no no	dear dear	2			4	V 24	dry	7 dry	
M Alisobrook 12/10/201 M Alisobrook 12/10/201 M Alisobrook 12/10/201 M Alisobrook 12/10/201	1 excessing in grids H20/concrete crushing excessing in grids H20/concrete crushing	NE1 17.38 17. E 17.32 17. SE 17.26 17. S 17.19 17.	43 37 n		·	2		105	5.6 18.4 7 45.1	63.1	no	no	clear	2.89			Н				
	1 excavating in gnas H20/concrete crushing	SE 17.26 17.	31 n			3		28	1 849	57.1	no	110					-		-	-	
M Alisobrook 12/10/201 M Alisobrook 12/10/201	1 excevating in grids H20/concrete crushing	S 17.19 17.	24 n	$\leftarrow$				-		54.9	110	110					-	_		-	
M Alisobrook 12/10/201 M Alisobrook 12/10/201 M Alisobrook 12/10/201 M Alisobrook 12/10/201 M Alisobrook 12/10/201	1 excessing in grids H20/concrete crushing excessing in grids H20/concrete crushing	S 17.19 17. SW 17.12 17. W 17.06 17. NW 17.00 17.	24 n 17 y 11 y	1 tr 3 tr	traffic traffic furnes	0 4 -1 4		) 245 ) 32	5.7 42.8	79 81.4	00 00	no no						14			

for any and a forest fo	her I rosal sosal		In 16 16	Incom Inc.	les a L	L. Dec.					
M. Allsobrook. 13/10/2011. Recoveraing in H21/concrete crushing. M. Allsobrook. 13/10/2011. Recoveraing in H21/concrete crushing. M. Allsobrook. 13/10/2011 Interesting in H21/concrete crushing.	NE 10.13 10.18 y NE1 10.07 10.12 E 10.01 10.05 h SE 9.55 10.00 y S 9.48 9.53 h SW 9.42 9.47 y	2 damp grass 1	2 1 0 2 0 3 1 0	220.7 34.4 68.2 37.3 70.2 59.2	67.1 110	clear	2.87				
M Allsobrook, 13/10/2011 excavating in H21/concrete crushing  M Allsobrook, 13/10/2011 excavating in H21/concrete crushing	SE 9.55 10.00 y	3 wet vegetation 1	3 1 0	70.2 59.2	63.2 no	no chiar	2.87				
M Allechande 19/10/2011 accounting in H21/concepts counting	S 9.48 9.53 h SW 9.42 9.47 y	3 Iraffic and vegetation 0	3 0 4 1 0	143.2 57	75.8 no	no no					
in Malacotocki, 13/10/2011 securisting in 12/10/circles crushing.  M. Malacotocki, 13/10/2011 securisting in H2/10/circles crushing.  M. Malacotocki, 13/10/2011 securisting in H2/10/circles crushing.  I. Staphenson 13/10/2011 securisting in H2/10/circles crushing.  I. Staphenson 13/10/2011 securisting in G2/20-bid suring/conceise crushing/sestoration.	SW 9.42 9.47 y W 9.38 9.41 y NW 9.39 9.35 y NN 17.40 17.45 h NE 17.26 17.45 y NE1 17.30 17.45 y SE 17.26 17.35 h SE 17.20 17.35 y SE 17.20 17.35 y SE 17.20 17.35 y	2 traffic fumes -1 2 traffic fumes 0		62 80	78.9 no 70.5 no	10					
Stephenson 13/10/2011 excavating in G20/bed turning/concrete crushing/testoration  I Stephenson 13/10/2011 excavating in G20/bed turning/concrete crushing/testoration	N 17.40 17.45 n NE 17.35 17.40 v	3 damp veg, river weed 0	2 1 0	62 80 138 100 121 79	68 no 65 no	no clear	1.9		6 E 17 sunny spells	6 damp	no odour at church, no visual evidence of dust generation from site at churc
Sapherson 13/10/2011 excavating in G20-bed surring-to-create crushing-testoration Sapherson 13/10/2011 excavating in G20-bed surring-to-create crushing-testoration Sapherson 13/10/2011 excavating in G20-bed surring-to-create crushing-testoration (Sapherson 13/10/2011 excavating in G20-bed surring-to-create crushing-testoration)	NE1 17.30 17.36 E 17.25 17.30 n		2 0	121 79 90 33	64 no	no clear	2.85	0 0			
Supplement 13/10/2011 excavating in G20/bed turning/concrete crushing/testoration	SE 17.20 17.25 y	wet veg 0	3 1 0	100 22	65 no	no		0 0			
Stephenson 13/10/2011 excavating in 020/bed surring/concrete crushing/testoration Susphenson 13/10/2011 excavating in 020/bed surring/concrete crushing/testoration Susphenson 13/10/2011 excavating in 020/bed surring/concrete crushing/testoration	S 17.15 17.20 h SW 17.10 17.15 y W 17.05 17.10 y	car fumes -1 car fumes and conifer 1	4 1 0	120	76 no	no		6			
I Stephenson 13/10/2011 excavating in G20-bed surring-concrete crushing-testoration	NW 17.00 17.05 y	car tures and corner  car funes  0	2 1 0	87 96	72 no	no		n n	6 ESE 14 overcast	7 dry	
Stephenson 3/10/2011 lescensiding in G20bed streing/conceste crushing/testoration   Stephenson 14/10/2011 lescensiding in grids L41,55bed tuming/concrete crushing/testoration   Stephenson 14/10/2011 lescensiding in grids L41,55bed tuming/concrete crushing/testoration   Stephenson 14/10/2011 lescensiding in grids L41,55bed tuming/concrete crushing/testoration   Stephenson 14/10/2011   Ste	NW 17:00 17:05 y N 8:15 8:20 h NE 8:21 8:28 h		2 0	50 84	65 no	no clear	1.3	0 0	6 ESE 14 OVERSAL	, dy	no odour at church, no visual evidence of dust generation from site at churc
Stephenson 14/10/2011 excavating in gnds L4,L5/bed turning/concrete crushing/restoration	NE1 8.27 8.32 E 8.33 8.38 h SE 8.39 8.44 h		2 0	238 177	65 no	no clear	2.85	0 0			
Stephenson   14/10/2011 excessating in grids L4,L5/bed turning/concrete crushing/restoration   Stephenson   14/10/2011 excessating in grids L4,L5/bed turning/concrete crushing/restoration   Stephenson   14/10/2011 excessating in grids L4,L5/bed turning/concrete crushing/restoration   14/10/2011 excessation in grids L4,L5/bed turning/concrete crushing/restoration   14/10/2011 excessation   14	SE 8.39 8.44 n S 8.45 8.50 n		3 0	253 107	65 no 68 no	10		0 0			
Stephenson 14/10/2011 excavating in grids L4.L5/bad turning/concrete crushing/restoration ISsephenson 14/10/2011 excavating in grids L4.L5/bad turning/concrete crushing/restoration ISsephenson 14/10/2011 excavating in grids L4.L5/bad turning/concrete crushing/restoration ISsephenson 14/10/2011 excavating in grids L4.L5/bad turning/concrete crushing/restoration Sesphenson 14/10/2011 excavating in grids L4.L5/bad turning/concrete crushing/restoration	\$ 8.45 8.50 h SW 8.51 8.56 h W 8.57 202 y NW 9.03 9.03 h	3 car fumes and conifer 1	4 1 0	134 137	71 no 82 no	10		0 0			
I Stephenson 14/10/2011 excessing in grids L4_L5/bed turning/concrete crushing/restoration I Stephenson 14/10/2011 excessing in grids L4_L5/bed turning/concrete crushing/restoration	NW 9.03 9.08 n N 15.42 15.47 n		2 0	256 58	78 no	no clear	10	0 0	8 FSF 15 supray	1 dry	to odour or dust at church
Saghenson 1.41/0.2011 seconstring in grids L4, L58ed turning/concrete crushing/restoration Saghenson 1.41/0.2011 seconstring in grids L4, L58ed turning/concrete crushing/sectoration (Stephenson 1.41/0.2011 seconstring in grids L4, L58ed turning/concrete crushing/restoration seconstring in grids L4, L58ed turning/concrete crushing/restoration	N 15.42 15.47 h  NE 15.41 15.51 y  NE1 15.54 15.50 y  E 16.00 16.11 h  SE 16.00 16.11 h  SW 16.11 16.22 h  WW 16.11 16.23 h  WW 16.11 16.23 h	2 river weed 0	2 1 0	256 58 168 80	83.1 no 59.8 no	no clear		n n	8 ESE 15 sunny		
Stephenson 14/10/2011 excessing in griss L4,L5/bed turning/concrete crushing/restoration   Stephenson 14/10/2011 excessing in griss L4,L5/bed turning/concrete crushing/restoration   Stephenson 14/10/2011 excessing in griss L4,L5/bed turning/concrete crushing/restoration	E 16.00 16.05 y	2 vegetation 0	2 1 0	70 62	62.4 no 71.8 no	no dear	2.85	n n			
I Stephenson 14/10/2011 exceivating in grids L4,L5/bed turning/concrete crushing/restoration I Stephenson 14/10/2011 exceivating in grids L4,L5/bed turning/concrete crushing/restoration	SE 16.06 16.11 in S 16.12 16.17 in		3 0	74 42	58.4 no	no no		0 0			
Supplement 14102011 securating in globs L1, L5bed tuning/concrete crushing/restoration Supplement 14102011 securating in globs L1, L5bed tuning/concrete crushing/restoration Supplement 14102011 securating in globs L1, L5bed tuning/concrete crushing/restoration 1 Supplement 14102011 securating in globs L1, L5bed tuning/concrete crushing/restoration 1 Supplement 14102011 securating in globs L1, L5bed tuning/concrete crushing/restoration	SW 16.18 16.23 n W 16.25 16.30 n		4 0	38 60	76.4 no	no no		0 0			
Salphanson 14/10/2011 isacurating in grids LALShoot unsing conserve crushing restoration Salphanson 14/10/2011 sonstea crushing restoration Salphanson 18/10/2011 sonstea crushing restoration Salphanson 18/10/2011 sonstea crushing leatoration (Salphanson 18/10/2011 sonstea crushing leatoration	NW 16.31 16.36 y N 9.40 9.45 n	4 traffic furnes and solvent smell -1	2 3 0	83.8 31.5 98.6 66.8	73.4 no 63.5 no	no clear	2	0 0	7.5 W 9 sunrity	0 damp	no odour or dust from site evident at church
Stephenson 18/10/2011 concrete crushing/restoration	N 9.40 9.45 n NE 9.35 9.40 n NE1 9.30 9.35		2 0	98.6 66.8 48 44	64 no	no clear		0 0			
Stephenson   18/10/2011 concrete crushing leateration   Supplement   18/10/2011 concrete crushing leateration   Supplement   18/10/2011 concrete crushing leateration   18/10/2011 concrete crushing leateration   18/10/2011 concrete crushing leateration	E 9.25 9.30 n SE 9.20 9.25 y	3 wetveg 0	2 0	54.8 100	65.6 no 65.4 no	no clear	2.9	0 0			
Supposed 1992/2009 Internation of pREAL STATE of temperature and implementation of the programme of the prog			3 0	58.7 95.7	63.8 00	no no		0 0		+	
Saphenson 18/10/2011 concrete crushing-leatoration Saphenson 18/10/2011 concrete crushing-leatoration Saphenson 18/10/2011 concrete crushing-leatoration Saphenson 18/10/2011 concrete crushing-leatoration	SW 9.10 9.15 h W 9.05 9.10 y NW 9.00 2.05 y N 17.35 17.40 h	3 wet veg 0 2 veg, wet asphalt 0	4 1 0	49 40.9	81.2 no	00		0 0			
	N 17.36 17.40 n		2	28.5 18.8 41.8 27.7	56 no	no clear	1.96		13 WSW 20 sun	2 dry	
M Alsobrook 18/10/2011 concrete crushing/restoration	NE 17.28 17.33 h			41.0 27.7 42 19.8	20.9 110	no clear					1
M Allsobrook 18/10/2011 concrete crushing/restoration M Allsobrook 18/10/2011 concrete crushing/restoration	E 17.16 17.21 n		3 0	36.1 22.2	57.2 no 62.4 no	no clear no	2.85				
M. Alludoucki, 18/1/3/2011 processes crushing-insolatorisis M. Alludoucki, 18/1/2021 processes crushing-insolatorisis	SE 17.10 17.15 h S 17.03 17.08 h SW 17.37 17.02 h		3 0	41.4 9.2	70.4 no 78.3 no	no no				$\pm \mathbb{I}$	
M Allocheoxi 187/0/2011 concrete crushing/teatoration M Allocheoxi 187/0/2011 concrete crushing/teatoration Stephenson 197/0/2011 concrete crushing/teatoration	W 16.51 16.56 y NW 16.45 16.50 y N 11.10 11.15 n	3 yraffic furnes -1 2 yraffic furnes 0		76.6 16 30.1 62.4	75.1 no 63.8 no	no no				+ =	
Stephenson 19/10/2011 concrete crushing/testoration	N 11.10 11.15 n	3 fiver weed -1			47.7 no 50.6 no	no clear	1.95	0 0	2 NW 11 suntry	1 dry	no odour or visual evidence of dust from site at church
Contract (AMONOMA CONTRACTOR)	N 1110 11156   110 11157   110 11157   110 11157   110 11157   110 11157   110 11157   110 1157   1	-1		92.1 56 800.2 396.3 76.4 32.8	62.9	clear	2.0	0 0			
Despiration i 1910/2011 Destruition straining valuational in Susphission i 1910/2011 Concepts or unlarge valuation Susphission 1910/2011 concepts or unlarge valuation Susphission 1910/2011 concepts or unlarge Valuation	SE 10.55 11.00 h	3 light vehicle emissions from site 0	3 3 0	76.4 32.8 80.5 40.2	64.5 no	no clear	23	0 0			
I Stephenson 19/10/2011 concrete crushing/restoration  I Stephenson 19/10/2011 concrete crushing/restoration	S 10.45 10.50 h SW 10.40 10.45 h		3 0 4 0	80.5 40.2	54.3 no	no no		0 0			
Siegherson   19/10/2011 concrese crushing frestoration   Siegherson   19/10/2011 concrete crushing frestoration   Siegherson   19/10/2011 concrete crushing frestoration   Siegherson   19/10/2011 concrete crushing frestoration   Machine   19/10/2011 concrete crushing frestoration   Machine   19/10/2011   Institution	W 10.35 10.40 n NW 10.30 10.35 n		2 0	95.2 107.3	76.3 no 76.4 no	no no		n n	9 SW 13 sun		
M Allsobrook 20/10/2011 restoration M Allsobrook 20/10/2011 restoration	N 17.11 17.16 n NE 17.04 17.09 n		2 0	54.3 19.3 59 23.5	48.9 no 48.1 no	no clear	2		9 SW 13 sun	3 dry	
M Allsobrook 20/10/2011 Instruction M Allsobrook 20/10/2011 Instruction	NE1 16.57 17.02		2 0	11 8.7 13.4 14.7	46.6 no	no clear	2.86				
M Allsobrook: 20/10/2011 restoration	E 16.51 16.59 h  SE 16.45 16.50 h  S 16.38 16.43 h  SW 16.32 16.37 y  W 16.26 16.31 y  W 16.26 16.31 y		3 0	021 150	38.5 00	no no	2.00				
M Allsobrook 20/10/2011 Instruction M Allsobrook 20/10/2011 Instruction	SW 16.32 16.37 y	1 traffic fumes -1 1 traffic fumes 0 2 traffic fumes 0	4 1 0	97.6 54.2	68.9 no	no no					
M Allsobrook 20/10/2011 sisteration M Allsobrook 20/10/2011 sisteration		traffic tumes 0 traffic tumes 0	2 1 0	97.6 54.2	75.8 no 60.2 no	no no			10 SSW 12 sun		
M. Allabotocki, 2013/2011 Instantation M. Allabotocki, 2013/2011 Instantation M. Allabotocki, 21/10/2011 Instantation	N 10.51 10.56 n NE 10.44 10.49 n		2	105.2 64.7 29.4 23.1	52.8 no 58.7 no	no clear	2		10 SSW 12 sun	1 dry	
M Allsobrook: 21/10/2011 Instrustion M Allsobrook: 21/10/2011 Instrustion M Allsobrook: 21/10/2011 Instrustion	NE1 10.37 10.42 E 10.31 10.36 y SE 10.25 10.30 y	2 concrete 0	2 5 0	29.4 23.1 35.6 15.8 30.4 22.9	60.4 no	no clear	2.85	<b>+</b>			
M Allsobrook 21/10/2011 sisteration M Allsobrook 21/10/2011 sisteration	SE 10.25 10.30 y S 10.18 10.23 n	2 concrete 0 2 trees and vegetation 1	3 1 0	342 9.1	59.4 no 66.3 no	no no					
M Allocheoic 21/10/2011 Instrumition  M Allocheoic 21/10/2011 Instrumition  M Allocheoic 21/10/2011 Instrumition  M Allocheoic 21/10/2011 Instrumition	SW 10.12 10.17 y	t maffic fumes 0	4 1 0	20.4 26.7	78.7 no	no no			8 ssw 13 sun		
	NW 10.00 10.05 n		2 0	29.4 26.7 76 23.8	79 00	no elear	2		8 con 12 con	6 day	
M Allsobrook 21/10/2011 sestoration M Allsobrook 21/10/2011 sestoration	NE 15.43 15.48 n		2 0	34.1 10.9	36.7 no	no clear			U 10 10 10 10 10 10 10 10 10 10 10 10 10	u uy	
M Allsobrook 21/10/2011 restoration	\$ 10.18 10.22 a  W 10.12 10.17 y  W 10.08 10.11 a  W 10.08 10.11 a  W 10.00 10.06 a  N 15.00 15.06 a  E 15.07 10.44 a  E 15.07 10.44 a  E 15.07 10.44 a  E 15.07 10.44 a  W 15.00 15.06 a  N 15.10 15.06 a  W 15.10 15.06 a  W 15.10 15.06 a  W 15.10 15.06 a  W 15.10 15.07 y  W 15.10 15.17 y  W 15.10 15.18 a  W 10.48 10.55 a	2 concrete/brick 0	2 5 0	9 5.6 224.6 154.4	61.2 no	no clear	2.86				
M Allsobrook 21/10/2011 restoration M Allsobrook 21/10/2011 restoration	SE 15.25 15.30 n S 15.18 15.23 n		3 0	10.7 8	73.5 no 53.7 no	no no					
M Alisobrook 21/10/2011 restoration M Alisobrook 21/10/2011 restoration	SW 15.12 15.17 y W 15.06 15.11 y	2 traffic 0	4 1 0	71.1 15.9	68.2 no 70.6 no	no no					
M. Allsobrook. 2410,2011 Instronation M. Allsobrook. 2410,2011 Instronation M. Allsobrook. 2410,2011 Instronation M. Allsobrook. 2410,2011 Instronation	NW 15.00 15.05 y		4 1 0								
M Allsobrook 24/10/2011 Instruction M Allsobrook 24/10/2011 Instruction		3 traffic fumes -2 3 traffic fumes -1	2 1 0	97.4 79.1	58.7 no	no clear	2		20 SE 13 windy dry	4 dry	
		3 traffic furnes -1	2 1 0	97.4 79.1	58.7 no 69.1 no	no clear no clear	2		20 SE 13 windy dry	4 dry	
ne resourcek 24/10/2011 historiation M Allochronic 24/10/2011 sesteration	NE 10.42 10.47 n NE1 10.36 10.41 E 10.30 10.35 v		2 1 0	97.4 79.1 146.3 112.1 149.8 99.3 487.3 49.3	58.7 no 69.1 no 64.7 no	no clear no clear clear no clear	2 2.85		20 SE 13 windy dry	4 dry	
M. Allsobrook, 24/10/2011 historation M. Allsobrook, 24/10/2011 historation M. Allsobrook, 24/10/2011 historation	NE 10.42 10.47 n NE1 10.36 10.41 E 10.30 10.35 v	3 vegetation/rotting leaves 0 2 vegetation 1	2 1 0 2 0 2 0 2 1 0 3 1 0	97.4 79.1 146.3 112.1 149.8 92.3 487.3 49.3	69.1 00 69.1 00 62.4 00 67.7 00	no clear no clear no clear no clear no	2.85		20 SE 13 windy dry	4 dry	
M Allsochook, 24/10/2011 Nastonation	NE 10.42 10.47 in NE1 10.36 10.41 E 10.30 10.35 y SE 10.24 10.29 y S 10.18 10.23 in SW 10.12 10.17 y	3 vegetation/rotting leaves 0 2 vegetation 1	2 1 0 2 0 2 0 2 1 0 3 1 0	97.4 79.1 146.3 112.1 149.8 92.3 487.3 49.3	64.7 no 62.4 no 67.7 no 81.2 no 77.5 no	no clear no clear no clear no dear no	2.85		20 SE 13 windy dry	4 dry	
M Allsochook, 24/10/2011 Nastonation	NE 10.42 10.47 n NE1 10.39 10.41 E 10.39 10.45 y SE 10.34 10.29 y S 10.18 10.22 n SW 10.12 10.17 y W 10.09 10.11 y NW 10.00 10.05 y		2 1 0 2 0 2 0 2 1 0 3 1 0	97.4 79.1 146.3 112.1 149.8 92.3 487.3 49.3	64.7 no 69.1 no 64.7 no 62.4 no 57.7 no 51.2 no 77.5 no 63.6 no	100 clear 100 clear 100 clear 100 clear 100 clear 100 100 100 100 100 100 100 100 100 100	2 2 2 2 5 5 1 .95	2 0	20 SE 13 windy dry	4 dry	ns obor at church, some shaul orders of male dut generation but beginn pasy hor Hause
M Mischoom 24*100*11 Instruction on order C159backing concress Stephenoom 24*100*11 Instruction on order C159backing concress	NE 1 0.42 10.47 h  NE1 1 0.30 10.41 h  E 1 0.30 10.30 y  SE 10.30 10.30 y  S 10.30 10.30 y  S 10.10 10.30 10.30 y  NV 10.12 10.17 y  W 10.06 10.11 y  NV 10.06 10.11 y  NV 10.06 10.11 y  NE 16.00 16.06 h	3 vegetation/rotting leaves 0 2 vegetation 1	2 1 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	97.4 79.1 146.3 112.1 149.8 99.3 487.3 49.3	58.7 no 69.1 no 64.7 no 62.4 no 67.7 no 81.2 no 77.5 no 63.6 no 65.8 no	90 clear 90 clear 90 clear 80 clear 90 clear 90 clear 90 clear 90 clear 90 clear 90 clear	2 2 2 2 5 5 1 9 5 1 9 5 1 9 5 1		20 SE 13 windy dry	4 dry	to obor at thirth, sons shall enthross of male dust presentes but bigging away han Hasen.
M Mischoom 24*100*11 Instruction on order C159backing concress Stephenoom 24*100*11 Instruction on order C159backing concress	NE 1 0.42 10.47 h  NE1 1 0.30 10.41 h  E 1 0.30 10.30 y  SE 10.30 10.30 y  S 10.30 10.30 y  S 10.10 10.30 10.30 y  NV 10.12 10.17 y  W 10.06 10.11 y  NV 10.06 10.11 y  NV 10.06 10.11 y  NE 16.00 16.06 h	expellation history leaves 0 2 expellation 1 3 selfic turnes 0 2 excellent 0 3 selfic turnes 0 3 expellation and turfle turnes 0 4 expellation and turfle turnes 0	2 1 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	97.4 79.1 146.3 112.1 149.8 99.3 487.3 49.3 216.4 88.8 73.4 57.4 114.1 55.2 102.4 100.1 96.2 117.5	64.7 no 64.7 no 62.1 no 64.7 no 62.4 no 67.7 no 61.2 no 77.5 no 65.6 no 65.8 no 63.2 no 63.2 no	NO	2 2.85 1.95 2.85	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 SE 13 Mindy day 2 SE 9 bursty	4 dry	or about all charch, some visual architects of smalls dust personation had blooking away from Neutrin
M Administra 12-402074 Habitation M Habitation 12-402074 Habitation M Habitation 12-402074 Habitation M Habitation 12-402074 Habitation M Habitation 12-402074 Habitation and public Chilaboling controls Habitation 12-402074 Habitation and Habitat	NE 1 0.42 10.47 h  NE1 1 0.30 10.41 h  E 1 0.30 10.30 y  SE 10.30 10.30 y  S 10.30 10.30 y  S 10.10 10.30 10.30 y  NV 10.12 10.17 y  W 10.06 10.11 y  NV 10.06 10.11 y  NV 10.06 10.11 y  NE 16.00 16.06 h	vegetation/reting leaves 0 vegetation/reting leaves 0 vegetation 7 varie furnes 0 verenes and traffic furnes 0 vegetation and traffic furnes 0	2 1 0 0 2 1 0 0 1 0 1 0 1 0 1 0 1 0 1 0	97.4 79.1 146.8 112.1 140.8 99.3 497.3 49.3 216.4 88.8 73.4 97.4 114.1 95.2 102.4 100.1 96.2 117.5 94.5 34	76.5 10 58.7 10 59.1 10 59.1 10 59.7 10 50.1 10 50.1 10 50.7 10 50.7 10 50.8 10 50.	NO clear	2 2.85	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 SE 13 Mindy day 2 SE 9 bursty	4 dry	to above at thereb, some shared withholes of engine duling percentation but blooming away from Hancols
M Andreadon J 2-010077 National Control of the Cont	NE 1 0.42 10.47 h  NE1 1 0.30 10.41 h  E 1 0.30 10.30 y  SE 10.30 10.30 y  S 10.30 10.30 y  S 10.10 10.30 10.30 y  NV 10.12 10.17 y  W 10.06 10.11 y  NV 10.06 10.11 y  NV 10.06 10.11 y  NE 16.00 16.06 h	expellation history leaves 0 2 expellation 1 3 selfic turnes 0 2 excellent 0 3 selfic turnes 0 3 expellation and turfle turnes 0 4 expellation and turfle turnes 0	2	97.4 79.1 166.3 112.1 140.8 99.3 487.3 49.3 216.4 98.8 73.4 97.4 114.1 95.2 102.4 100.1 96.2 1175 94.3 94.3 38.8 92.5	10.5 10 10.5 10 10.7 10 10.7 10 10.7 10 10.7 10 10.7 10 10.7 10 10.7 10 10.7 10 10.8 10 10.	MO	2 2.85 1.95 2.85		20 SE 13 windy day  13 Sindy day  2 SE 9 Sentry	4 dry	
M Andreadon J 2-010077 National Control of the Cont	NE 1 0.42 10.47 h  NE1 1 0.30 10.41 h  E 1 0.30 10.30 y  SE 10.30 10.30 y  S 10.30 10.30 y  S 10.10 10.30 10.30 y  NV 10.12 10.17 y  W 10.06 10.11 y  NV 10.06 10.11 y  NV 10.06 10.11 y  NE 16.00 16.06 h	Separational lands Separation Sep	2	97.4 79.1 166.3 112.1 140.8 99.3 487.3 49.3 216.4 98.8 73.4 97.4 114.1 95.2 102.4 100.1 96.2 1175 94.3 94.3 38.8 92.5	(8.5 + 10) (9.1 + 10)	10 Start 10	2 2.85 1.95 2.85		20 SE 13 Mindy day 2 SE 9 bursty	4 dry 4 dry 7 damp	
M Andreadon J 2-010077 National Control of the Cont	NE 1 0.42 10.47 h  NE1 1 0.30 10.41 h  E 1 0.30 10.30 y  SE 10.30 10.30 y  S 10.30 10.30 y  S 10.10 10.30 10.30 y  NV 10.12 10.17 y  W 10.06 10.11 y  NV 10.06 10.11 y  NV 10.06 10.11 y  NE 16.00 16.06 h	egedation/ridge based 0 separation	2	97.4 79.1 146.3 112.5 146.3 112.5 146.3 112.5 146.3 112.5 146.3 12.5 146.3 12.5 146.3 12.6 146.3 12.6 146.3 12.6 146.3 12.6 146.3 12.6 146.3 12.6 146.3 146.	10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5	0	2 2.85 2.85 1.95 2.85		20 SE 13 windy day  13 SE 14 SEPPER  2 SE 3 SEPPER  3 SSE 4 SEPPER  3 SSE 4 SEPPER  5 SSE 4 SE	4 dry 4 dry 7 damp	
M Andreadon J 2010/17 Newsorism M Andreadon J 2010/17 Newsoris	NE 1 0.42 10.47 h  NE1 1 0.30 10.41 h  E 1 0.30 10.30 y  SE 10.30 10.30 y  S 10.30 10.30 y  S 10.10 10.30 10.30 y  NV 10.12 10.17 y  W 10.06 10.11 y  NV 10.06 10.11 y  NV 10.06 10.11 y  NE 16.00 16.06 h	Separational lands Separation Sep	2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	97.4 79.1 1443.3 119.1 1445.3 119.1 447.3 43.3 447.3 43.3 216.4 88.8 73.4 57.4 1141 55.2 102.4 101.1 102.2 117.5 103.5 52.5 105.5 94 104.3 43 105.5 94 104.4 54.7 105.6 50.7 105.6 50.	10.5 100 100 100 100 100 100 100 100 100 10	0   Select	2 2 85 2 85 2 85 2 85 2 85 2 85 2 85 2		2 S 13 windy sty	4 dry	
M Andreadon J 2010/17 Newsorism M Andreadon J 2010/17 Newsoris	Section   Sect	expectation/refig based 5 and control of the contro	2	1074   121	62.7   10   10   10   10   10   10   10   1	10   10   10   10   10   10   10   10	2 2.65 2.65 1.56 2.65 2.65		20 SE 13 windy day  13 SE 14 SEPPER  2 SE 3 SEPPER  3 SSE 4 SEPPER  3 SSE 4 SEPPER  5 SSE 4 SE	4 dry 4 dry 7 damp	
M Andreadon J 2010/17 Newsorism M Andreadon J 2010/17 Newsoris	Section   Sect	egedation/ridge based 0 separation	2 1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	100   100	10.7 10 10 10 10 10 10 10 10 10 10 10 10 10	10   Salar	2.55 2.55 2.55 2.65 2.55		2 S 13 white for	4 dry	
M Andreadon J 2010/17 Newsorism M Andreadon J 2010/17 Newsoris	Section   Sect	Supplies the second of th	2	27.4   23.7   23.7   23.5	A   7   10   10   10   10   10   10   10	10   Salar	7.55 1.55 1.55 1.55 1.55		2 S 13 windy sty	4 by	
M Adulation J 24/10/71 Heatmain M Adulation M Adulation J 24/10/71 Heatmain M Adulation M M Adulation M M Adulation M Adulation M M Adulation M M Adulation M M Madulation M Madulation M M M M M M M M M M M M M M M M M M M	Section   Sect		2	27.4   23.7   23.7   23.5	10	O	2.65 2.65 2.65 2.65 2.65 2.65 2.65 2.65		2 S 13 white for	4 6y 4 6y 7 6anp	
M Adulation J 24/10/71 Heatmain M Adulation M Adulation J 24/10/71 Heatmain M Adulation M M Adulation M M Adulation M Adulation M M Adulation M M Adulation M M Madulation M Madulation M M M M M M M M M M M M M M M M M M M	Section   Sect	The second secon	2 1 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	27.4   23.1   23.1   24.2   23.1   23.1   24.2   23.1   24.2   23.1   24.2   23.1   24.2   23.1   24.2   23.1   24.2   23.1   24.2   23.1   24.2	937 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Column   C	2.55 1.55 1.55 1.55 1.55 1.55 1.55 1.55		2 S 13 white for	4 8y	
M Administry J. 24-10277 Nationals	Section   Sect	The second secon	2 1 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	27.4   23.1   23.1   24.2   23.1   23.1   24.2   23.1   24.2   23.1   24.2   23.1   24.2   23.1   24.2   23.1   24.2   23.1   24.2   23.1   24.2	10   10   10   10   10   10   10   10	Section   Sect	2.85 2.85 2.85 2.85 2.85 2.85 2.85 2.85		2 S 13 windy day  3 windy day  3 windy day  4 windy day  5 S 5 V windy  6 Windy  7 Windy  8 Windy  8 Windy  9 Windy  10 Windy  11 Windy  11 Windy  11 Windy  11 Windy  11 Windy  11 Windy	4 9y 4 9y 7 5ang	
M Administry J. 24-10277 Nationals	S		2 1 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	27.4   23.1   23.1   24.2   23.1   23.1   24.2   23.1   24.2   23.1   24.2   23.1   24.2   23.1   24.2   23.1   24.2   23.1   24.2   23.1   24.2	1	Section   Sect	2.85 1.55 1.55 2.85 2.85 2.95 2.95		2 S 13 windy day  3 windy day  3 windy day  4 windy day  5 S 5 V windy  6 Windy  7 Windy  8 Windy  8 Windy  9 Windy  10 Windy  11 Windy  11 Windy  11 Windy  11 Windy  11 Windy  11 Windy	4 97	
M Administry J. 24-10277 Nationals	S	The second secon	1	10   10   10   10   10   10   10   10	10   1   10   10   10   10   10   10	10   10   10   10   10   10   10   10	2.55 2.55 2.65 2.65 2.57 2.57 2.57 2.57 2.57 2.57 2.57 2.5		2 S 13 work day  3 work day  4 S 14 work  5 S 1 work  6 S 1 work  7 S 1 work  8 S 1 work  9 S 1 work	4 9y	
M Administry J. 24-10277 Nationals	S	Designation of the second of t	1	27.4   23.1   14.6   24.5	1	1	2.85 2.85 2.85 2.85 2.85 2.95 2.95 2.95 2.95 2.95 2.95 2.95 2.9		2 S 13 work day  3 work day  4 S 14 work  5 S 1 work  6 S 1 work  7 S 1 work  8 S 1 work  9 S 1 work	4 0y 4 0y 5 0y 6 0y 6 0y 7 0y 7 0y 6 0y 7	
M Anthonio J 241007 National Anthonio J 241007 N	S	Description of the second of t	2	12	10   10   10   10   10   10   10   10	10   10   10   10   10   10   10   10	2.55 2.55 2.65 2.65 2.55 2.57 2.57 2.57 2.57 2.57 2.57 2.5			4 9y 4 9y 7 deng	
M Anthonio J 241007 National Anthonio J 241007 N	S		1	10   10   10   10   10   10   10   10	03   0   0   0   0   0   0   0   0   0		2.85 2.85 2.85 2.85 2.85 2.85 2.85 2.85				
M Andreads 2-1907 National Andreads Service Se	Section   Sect	Description of the second of t		10	1		2.55.  1.55.  2.65.  3.57.  3.			4 8y 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
M Andreads 2-1907 National Andreads Service Se	Section   Sect			10   10   10   10   10   10   10   10	1	1	2.55 2.55 2.55 2.55 2.55 2.55 2.55 2.55			4 87 4 87 4 87 4 87 4 87 4 87 4 87 4 87	
M Andreads 2-1907 National Andreads Service Se	Section   Sect	September of the second of the	1	10	1		2.85 2.85 2.85 2.85 2.85 2.85 2.85 2.85		2 S 13 work day  3 work day  4 S 14 work  5 S 1 work  6 S 1 work  7 S 1 work  8 S 1 work  9 S 1 work	6 97 9 3 3 5 97 1 1 97 1 1 97 1	
M Andreadon J 2010/17 Neuroscient M Andr	\$\frac{1}{2}\$  \text{1.00}\$   \text{1.00}\$  \text{1.00}\$  \text{1.00}\$   \text{1.00}\$   \text{1.00}\$   \text{1.00}\$   \text{1.00}\$   \text{1.00}\$   \text{1.00}\$   \text{1.00}\$    \text{1.00}\$		1	12	1	1	2.85 2.85 2.85 2.85 2.85 2.85 2.85 2.85			6 2y 5 2y 6 2y 6 2y 6 2y 6 2y 6 2y 6 2y	
M Anthonics J 24/10/79 Neutronics M P Michael J 24/10/79 Neutronics M P Mi	\$\frac{1}{2}\$  \text{1.00}\$   \text{1.00}\$  \text{1.00}\$  \text{1.00}\$   \text{1.00}\$   \text{1.00}\$   \text{1.00}\$   \text{1.00}\$   \text{1.00}\$   \text{1.00}\$   \text{1.00}\$    \text{1.00}\$		1	12	1	1	2.65 1.65 1.65 2.65 2.65 1.65 1.65 1.75 1.75 1.75 1.75 1.75 1.75 1.75 1.7		2 S 13 windy day  2 S 13 windy day  2 S 2 S 14 windy  3 SS 14 windy  4 Windy  5 S 5 S 15 windy  5 S 5 S 5 S 5 S 5 S 5 S 5 S 5 S 5 S 5	4 87 87 88 88 88 88 88 88 88 88 88 88 88	
M Anthonics J 2010/15 Nationals M Anthonics J 2010/17 National	### 100   1.00		1	12   12   13   14   15   15   15   15   15   15   15	1	1	2.65 2.65 2.65 2.65 2.65 2.65 2.65 2.65			6 Sy 6 Sy 7 Sarray 7 Sarray 8 Sy 1	
M Andreadon J 2010/17 Neurostania	### 100   1.00		1	12   12   13   14   15   15   15   15   15   15   15	1	1	2.85 2.95 2.85 2.85 2.85 2.85 2.85 2.85 2.85 2.8			7 Serve 1 1 Sy 1	
M Andreadon J 2010/17 Neurostania	### 100   1.00		1	10   10   10   10   10   10   10   10	74.4 no 79 no 78.1 no 82.6 no 50.4 no 58.4 no		2.55 2.55 2.55 2.55 2.55 2.55 2.55 2.55		S	6 87 87 87 87 87 87 87 87 87 87 87 87 87	
M Anthonics J 2010/15 Nationals M Anthonics J 2010/17 National	### 100   1.00		1	12   12   13   14   15   15   15   15   15   15   15	1		2.55 2.55 2.55 2.55 2.55 2.55 2.55 2.55			2 Amy	

I Stephenson 27/10/2011 excavating in grids L15/restoring concrete	SW	9.40 9	0.46 v	4	wetveg	1 4	1	0			64.8 n	0.0			n	n					
Stephenson 27/10/2011 exceivating in grids L15/restoring concrete	W	9.35 9	0.40 v	4	wet yeg	1 4	1	0			72.6 n	0.0			n	n					
Stephenson 27/10/2011 excevising in grids L15/restoring concrete		9.30 9		2	wet asphalt and car fumes	0 2	1	0			68.8 n	o no			n	0					
Stephenson 27/10/2011 restoration	N	14.40 14	.46 v	2	wet veg	0 2	1	0			61.8 n	0.0	clear	2	n	n	0.5 8	E 12	rain	8 wit	no odour at church, no visual evidence of dust - raining. Too wet for dust mate
Stephenson 27/10/2011 restoration		14.35 14		2	wet veg	0 2	1	0			58.2 n	on no	clear		n	ń					
Stephenson 27/10/2011 restoration		14.30 14											clear		n	ń					
Supherson 27/10/2011 restoration	E	14.25 14	1.30 y	2	wet veg	0 2	1	0			58.5 n	o no	clear	3	n	0					
Stephenson 27/10/2011 restoration	SE	14.20 14	1.25 y	4	wet veg	-1 3	1	0			53.4 n	on no			n	ń					
Stephenson 27/10/2011 restoration		14.15 14			wet veg & hawthorn	-2 3	-	0			59.7 n	o no			n	n					
Stephenson 27/10/2011 restoration	SW	14.10 14	1.15 y	4	wet veg & car fumes	1 4	1	0			73.8 n	on no			n	ń					
Stephenson 27/10/2011 restoration	¥	14.05 14	k.10 y		wet veg	0 4	1	0			75	0.00			n	ń					
Stephenson 27/10/2011 restoration		14.00 14		3	wet veg	0 2	1	0			78.2 n	no no			n	n					
Stephenson 28/10/2011 restoring concrete	N	9.40 9	0.45 n			2		0	34	102	59.2	0.00	clear	2	n	ń	0.5 N	E 13	sunny	2 wet	no odours at church, no dust eviden
Stephenson 28/10/2011 restoring concrete	NE	9.35 9	0.40 n			2		0	152	102	55.4 n	no no	clear		n	0					
I Stephenson 28/10/2011 restoring concrete		9.30 9							198	73			clear		n	n				1 1	
I Stephenson 28/10/2011 restoring concrete	E	9.25 9	0.30 in			2		0	317	60	58.9 n	0.00	clear	3	n	0					
Stephenson   28/10/2011 restoring concrete	SE	9.20 9	0.25 n	1		3		0			65.1 n	0.00			n	n					
Stephenson 28/10/2011 restoring concrete	S	9.15 9	0.20 n			3		0	347	123	69.7 n	o no			n	n					
Stephenson 28/10/2011 restoring concrete	SW	9.10 \$	3.15 y		car fumes	4	1	0			85	no no			n	0					
Stephenson 28/10/2011 restoring concrete		9.05 9			wet veg & car fumes	1 4	1	0	503	197	78.2 n	no no			n	0					
I Stephenson 28/10/2011 restoring concrete		9.00 9		3	car fumes	0 2	1	0			74.5 n	o no			n	n					
Stephenson   28/10/2011	N	15.40 15	s.45 n			2		0	79	58	9	no no	clear	3	n	ń	0.5 N	E 17	sunny	0 wet	no visual evidence of orisite dust seen at church, no site odou
Stephenson   28/10/2011	NE	15.35 15	5.40 n			2		0	138	55	55.8 n	no no	clear		n	0					
I Stepherson 28/10/2011		15.30 15							401	67			clear		n	n					
Stephenson   28/10/2011	E	15.25 15	5.30 n			2		0	52	39	56.2 n	no no	clear	2	n	ń					
I Stepherson 28/10/2011	SE	15.20 15	5.25 n			3		ů			65.4 n	o no			n	n					
I Stepherson 28/10/2011	S	15.15 15	5.20 h			3		0	114	51	80.1 n	no no			ń	ń					
I Stephenson 28/10/2011	SW	15.10 15	i.15 y	4	cer fumes	0 4	1	0			71.8 n	no no			n	ń					
I Stepherson 28/10/2011	w	15.05 15	5.10 h			4		0	76	70	74.3 n	no no			ń	ń					
Stepherson   28/10/2011	NW	15.00 15	5.05 y	3	car fumes	0 2	1	0			69.2 n	no no			ń	ń					
M Allsobrook 31/10/2011 restoration	N	10.00 10	0.05 y		crushed concrete	-1 2	5	0	180.6	107.6	73.4 n	no no	dear	2			14 S	13	dry	7 dry	
M Allsobrook 31/10/2011 restoration	NE	10.06 10	).11 y	2	vegetation	1 2	1	0	85	57.1	58.9 n	no no	dear								
M Allsobrook 31/10/2011 restoration	NE1	10.12 10	0.17					_	114	35			clear				_		_		
M Alisobrook 31/10/2011 restoration	t	10.18 10	1.231n			2		0	38.4	38.6	58.4 n	no no	clear	1.98	1	L					
M Allsobrook 31/10/2011 restoration M Allsobrook 31/10/2011 restoration	SE	10.25 10	1.30ty	,	vegetation	0 3	1	0			61.8 n	o no					_		-		
M Allsobrook 31/10/2011 restoration M Allsobrook 31/10/2011 restoration	3	10.32 10	13716	+	vallic fumes	3		0	76.9	20.8	62 n	o no					_		-		
	SW	10.39 10	1.44 y			-1 4	1	0			77.1 n	0 10									
M Allsobrook 31/10/2011 restoration	W	10.45 10	3.50 y	2	raffic fumes and vegetation	0 4	- 1	0	32.9	15.7	81.2 n	o no					_		_		
M Allsobrook 31/10/2011 restoration	NW	17.10 17	1.56 y	3	traffic fumes	1 2		0		68.6	74.9 n	0.00									
Stephenson 31/10/2011 testoring concrete						. 2		0	31	46.6	63.5 n	o no	clear	2	n	0	5 5	SE 15	cloudy	8 dry	no odour at church, no visual evidence of onsite dust generatio
Stephenson 31/10/2011 restoring concrete	NE	17.05 17	r.101y	4	veg & river weed	2 2	1_	0	114.7	45.6	63.7 n	na na	dear		n	n	_		-		
Stephenson 31/10/2011 testoring concrete	NE1	16.55 17	.05	-					25.6	26.3			clear	0.0	0	n	-		+		
Stephenson   31/10/2011 restoring concrete   Stephenson   31/10/2011 restoring concrete	E AC	16.55 17	r.00an	+		. 2		0	13.1	26.3	65.5 0	no no	crear	2.9	P .	n	-				
	5E	16.50 16	3.00 y	2	vegetation	-1 3	1	v			62.3 n	9 110			P	n .	_		-		
I Stephenson 31/10/2011 restoring concrete	3	16.45 16	5.500m	+	cer fumes	3		0	30.8	20.8	64.8 n	o no			n	n	_		-		
I Stephenson 31/10/2011 restoring concrete																					
	SW	16.40 16	. 40	3																	
Stephenson   31/10/2011 restoring concrete   Stephenson   31/10/2011 restoring concrete	W	16.35 16	3.40 n	_		4		0	88.3	39.1	69.1 n	o no			n	n					



Appendix C

**Long term Passive VOC Monitoring** 





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# LABORATORY ANALYSIS REPORT

REPORT NUMBER **GCMS 4956** CUSTOMER Vertase FLI **GRADKO LAB REFERENCE GMSF 1615-1625** 

**DATE SAMPLES RECEIVED 13.10.11** DESPATCH REF.NUMBER SOR 006001 **Purchase Order No** 907BRI/5302 **BOOKING IN REF.** E 5421

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

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

**GRA 03560 Tube Number** 40320 **Exposure Time(mins)** Sample ID Ν

### Top 10 VOC'S

Compounds	ng on tube	ppb in air*
Benzene, 1,2,3-trichloro-4-methyl-	59.32	0.74
Tetrachloroethylene	54.25	0.67
Undecane	38.45	0.48
Dodecane	30.62	0.38
Toluene	27.13	0.34
Cyclohexanone	25.55	0.32
Benzene, 1,2,4-trichloro-3-methyl-	22.13	0.27
Decane	21.49	0.27
Phenol	20.89	0.26
m/p-Xylene	17.80	0.22

**Tube Number GRA 04712 Exposure Time(mins)** 40320 Sample ID ΝE

## Top 10 VOC'S

Compounds	ng on tube	ppb in air*
Tetrachloroethylene	57.63	0.71
Benzene, 1,2,3-trichloro-4-methyl-	57.09	0.71
Phenol	22.11	0.27

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## LABORATORY ANALYSIS REPORT

Toluene	18.51	0.23
m/p-Xylene	15.99	0.20
Benzene	12.36	0.15
Benzene, 1,2,4-trichloro-	11.40	0.14
o-Xylene	11.25	0.14
Benzene, 1,2,4-trimethyl-	11.01	0.14
Benzene, 1,4-dichloro-2-methyl-	7.55	0.09

**Tube Number GRA 05907 Exposure Time(mins)** 40320 Sample ID Ε

## Top 10 VOC'S

Compounds	ng on tube	ppb in air*
Benzene, 1,2,3-trichloro-4-methyl-	82.68	1.03
Tetrachloroethylene	75.94	0.94
Naphthalene	48.09	0.60
Naphthalene, 1-methyl-	42.36	0.53
m/p-Xylene	38.74	0.48
Phenol, 2,4-dichloro-	33.70	0.42
Toluene	24.77	0.31
Naphthalene, 2-methyl-	22.85	0.28
o-Xylene	16.88	0.21
Acetic acid, phenylmethyl ester	16.53	0.20

**Tube Number GRA 05904 Exposure Time(mins)** 40320 Sample ID S

### Top 10 VOC'S

Compounds	ng on tube	ppb in air*
Toluene	34.78	0.43
Phenol	20.87	0.26
Benzamide, N,N-dimethyl-	20.08	0.25
Benzothiazole	14.13	0.18
Tetrachloroethylene	12.50	0.15
m/p-Xylene	12.32	0.15
o-Xvlene	10.64	0.13

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# LABORATORY ANALYSIS REPORT

Benzene, 1,2,4-trimethyl-	10.39	0.13
Benzene	9.21	0.11
.alphaPinene	9.20	0.11

**Tube Number GRA 03942 Exposure Time(mins)** 40320 Sample ID SW

## Top 10 VOC'S

Compounds	ng on tube	ppb in air*
Tetrachloroethylene	32.60	0.40
Benzene, 1,2,3-trichloro-4-methyl-	29.48	0.37
Phenol	22.54	0.28
Benzothiazole	20.45	0.25
Toluene	20.22	0.25
Heptane, 2,2,4,6,6-pentamethyl-	18.99	0.24
Tridecane	17.81	0.22
m/p-Xylene	16.80	0.21
Benzene, 1,2,4-trichloro-3-methyl-	13.22	0.16
o-Xylene	12.26	0.15

**Tube Number GRA 02797 Exposure Time(mins)** 40320 W Sample ID

### Top 10 VOC'S

Compounds	ng on tube	ppb in air*
Tetrachloroethylene	119.14	1.48
Benzene, 1,2,3-trichloro-4-methyl-	106.12	1.32
Pentadecane	67.85	0.84
Benzene, 1,2,4-trichloro-3-methyl-	45.67	0.57
Benzothiazole	27.08	0.34
Benzene, 1,2,4-trichloro-	22.82	0.28
Toluene	22.45	0.28
Phenol	21.21	0.26
Benzene, 1,4-dichloro-2-methyl-	19.15	0.24
o-Xylene	18.74	0.23

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

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# LABORATORY ANALYSIS REPORT

Tube Number GRA 09698
Exposure Time(mins) 40320
Sample ID NW

## Top 10 VOC'S

Compounds	ng on tube	ppb in air*
Compounds	ilg on tube	ppb iii aii
Tetrachloroethylene	130.61	1.62
Benzene, 1,2,3-trichloro-4-methyl-	89.03	1.10
Toluene	56.78	0.70
m/p-Xylene	49.34	0.61
o-Xylene	24.65	0.31
Phenol	23.17	0.29
Ethylbenzene	20.40	0.25
Benzene, 1,2,4-trichloro-	20.10	0.25
Benzene, 1,2,4-trimethyl-	14.80	0.18
Benzothiazole	14.54	0.18

Tube Number GRA 04630
Exposure Time(mins) 40320
Sample ID Church Road

#### Top 10 VOC'S

Compounds	ng on tube	ppb in air*
Naphthalene	660.28	8.19
Phenanthrene	101.51	1.26
Naphthalene, 2-methyl-	68.52	0.85
Acenaphthene	50.17	0.62
Naphthalene, 1-methyl-	32.75	0.41
Fluorene	27.08	0.34
Phenol	22.28	0.28
Toluene	19.46	0.24
2-Benzothiophene	18.17	0.23
.alphaPinene	17.78	0.22

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

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# LABORATORY ANALYSIS REPORT

Tube Number GRA 00390
Exposure Time(mins) 40320
Sample ID Queens Close

### Top 10 VOC'S

Compounds	ng on tube	ppb in air*
Toluene	17.78	0.22
m/p-Xylene	14.67	0.18
Benzothiazole	13.52	0.17
Benzene, 1,2,4-trimethyl-	10.40	0.13
Phenol	10.27	0.13
Decane	9.60	0.12
o-Xylene	8.71	0.11
Benzene	7.52	0.09
Undecane	7.24	0.09
Ethylbenzene	5.85	0.07

Tube Number GRA 05739
Exposure Time(mins) 40320
Sample ID WWTW

#### Top 10 VOC'S

10p 10 100 0		
Compounds	ng on tube	ppb in air*
Toluene	21.38	0.27
Tetrachloroethylene	14.75	0.18
Trichloroethylene	11.18	0.14
Phenol	10.45	0.13
Benzothiazole	10.29	0.13
m/p-Xylene	9.03	0.11
Benzene	7.78	0.10
o-Xylene	6.84	0.08
Benzene, 1,2,4-trimethyl-	5.88	0.07
Ethylbenzene	5.06	0.06

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

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# LABORATORY ANALYSIS REPORT

Tube Number GRA 05672 Exposure Time(mins) 40320 Sample ID New Road

## Top 10 VOC'S

Compounds	ng on tube	ppb in air*
Toluene	48.10	0.60
Phenol	22.40	0.28
m/p-Xylene	18.62	0.23
Naphthalene, 2-methyl-	12.48	0.15
Benzene, 1,2,4-trimethyl-	11.68	0.14
Benzene	9.99	0.12
o-Xylene	9.37	0.12
2,3-Benzofurandione	9.02	0.11
Ethylbenzene	7.77	0.10
Decane	6.95	0.09

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

Date of Analysis 25.10.11

Analysts Name M.Angelova Date of Report 26.10.11

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

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Appendix D

**Directional Dust Monitoring** 



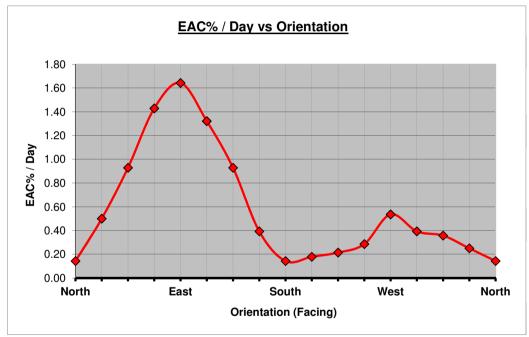
# **Sticky Pad Data**

# **Gauge Number- East Location 907 BRI**

Sticky Pad Data

Date On 12/09/2011 Date Off 10/10/2011 Days = 28
Clean = 100

V A:	Matau	Anala Dan	0	[ A CO/ / D
X Axis mm	Meter	Angle Deg	Orientation	EAC% / Day
0	96	360	North	0.14
20	93	337		0.25
40	90	314		0.36
60	89	291		0.39
80	85	269	West	0.54
100	92	246		0.29
120	94	223		0.21
140	95	200		0.18
160	96	177	South	0.14
180	89	154		0.39
200	74	131		0.93
220	63	109		1.32
240	54	86	East	1.64
260	60	63	_	1.43
280	74	40		0.93
300	86	17		0.50
315	96	0	North	0.14



Note: Cells coloured red are inputs.

The rest are either constants or calculated values.

The calculation is based on taking readings at 20mm intervals along the sticky pad.



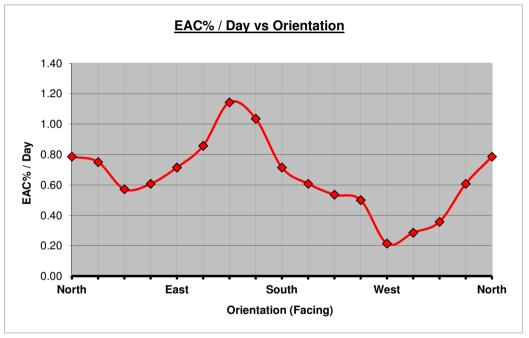
# **Sticky Pad Data**

# **Gauge Number- West Location 907BRI**

Sticky Pad Data

Date On	12/09/2011	Date Off	10/10/2011	Days =	28
Clean =	100				

X Axis mm	Meter	Angle Deg	Orientation	EAC% / Day
0	78	360	North	0.79
20	83	337		0.61
40	90	314		0.36
60	92	291		0.29
80	94	269	West	0.21
100	86	246		0.50
120	85	223		0.54
140	83	200		0.61
160	80	177	South	0.71
180	71	154		1.04
200	68	131		1.14
220	76	109		0.86
240	80	86	East	0.71
260	83	63		0.61
280	84	40		0.57
300	79	17		0.75
315	78	0	North	0.79



Note: Cells coloured red are inputs.

The rest are either constants or calculated values.

The calculation is based on taking readings at 20mm intervals along the sticky pad.



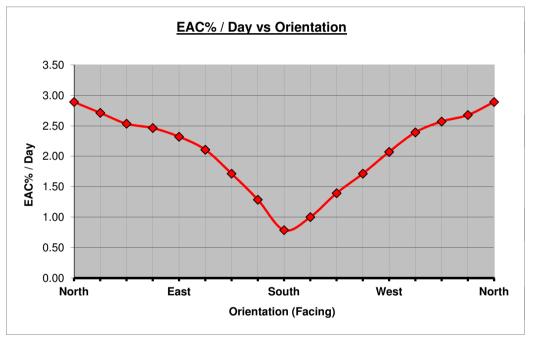
# **Sticky Pad Data**

# **Gauge Number- South Location 907BRI**

Sticky Pad Data

Date On Clean = 12/09/2011 Date Off 10/10/2011 Days = 28

X Axis mm	Meter	Angle Deg	Orientation	EAC% / Day
0	19	360	North	2.89
20	25	337		2.68
40	28	314		2.57
60	33	291		2.39
80	42	269	West	2.07
100	52	246		1.71
120	61	223		1.39
140	72	200		1.00
160	78	177	South	0.79
180	64	154		1.29
200	52	131		1.71
220	41	109		2.11
240	35	86	East	2.32
260	31	63		2.46
280	29	40		2.54
300	24	17		2.71
315	19	0	North	2.89



Note: Cells coloured red are inputs.

The rest are either constants or calculated values.

The calculation is based on taking readings at 20mm intervals along the sticky pad.

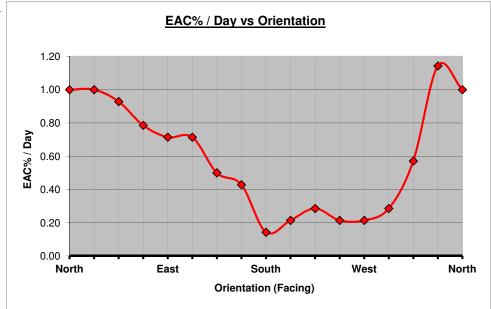


## **Gauge Number- North Location 907BRI**

**Sticky Pad Data** 

Date On Clean = 10/10/2011 Date Off 24/10/2011 Days = 14

D			0 1 1 11	I=400/ / D
X Axis mm	Meter	Angle Deg	Orientation	EAC% / Day
0	86	360	North	1.00
20	84	337		1.14
40	92	314		0.57
60	96	291		0.29
80	97	269	West	0.21
100	97	246		0.21
120	96	223		0.29
140	97	200		0.21
160	98	177	South	0.14
180	94	154		0.43
200	93	131		0.50
220	90	109		0.71
240	90	86	East	0.71
260	89	63		0.79
280	87	40		0.93
300	86	17		1.00
315	86	0	North	1.00



Note: Cells coloured red are inputs.

The rest are either constants or calculated values.

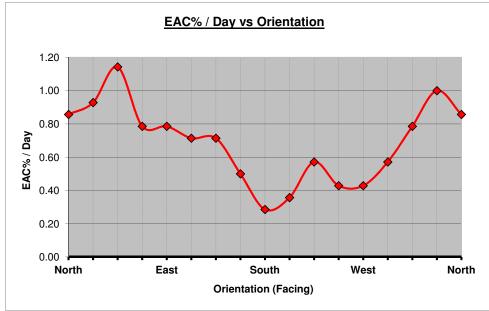


# **Gauge Number- East Location 907BRI**

**Sticky Pad Data** 

Date On Clean = 10/10/2011 Date Off 24/10/2011 Days = 14

X Axis mm	Meter	Angle Deg	Orientation	EAC% / Day
0	88	360	North	0.86
20	86	337		1.00
40	89	314		0.79
60	92	291		0.57
80	94	269	West	0.43
100	94	246		0.43
120	92	223		0.57
140	95	200		0.36
160	96	177	South	0.29
180	93	154		0.50
200	90	131		0.71
220	90	109		0.71
240	89	86	East	0.79
260	89	63		0.79
280	84	40		1.14
300	87	17		0.93
315	88	0	North	0.86



Note: Cells coloured red are inputs.

The rest are either constants or calculated values.

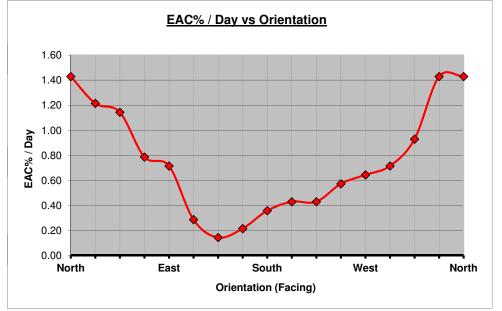


## **Gauge Number- West Location 907 BRI**

Sticky Pad Data

Date On Clean = 10/10/2011 Date Off 24/10/2011 Days = 14

				1
X Axis mm	Meter	Angle Deg	Orientation	EAC% / Day
0	80	360	North	1.43
20	80	337		1.43
40	87	314		0.93
60	90	291		0.71
80	91	269	West	0.64
100	92	246		0.57
120	94	223		0.43
140	94	200		0.43
160	95	177	South	0.36
180	97	154		0.21
200	98	131		0.14
220	96	109		0.29
240	90	86	East	0.71
260	89	63		0.79
280	84	40		1.14
300	83	17		1.21
315	80	0	North	1.43



Note: Cells coloured red are inputs.

The rest are either constants or calculated values.

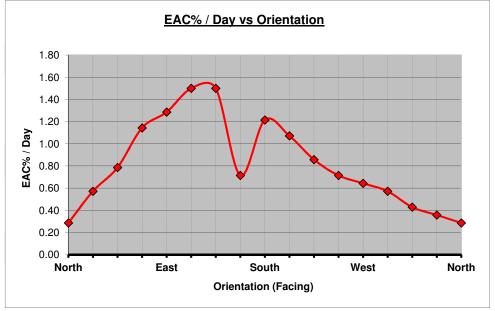


## **Gauge Number- North East 1 Location 907BRI**

Sticky Pad Data

Date On Clean = 10/10/2011 Date Off 24/10/2011 Days = 14

	1	1		r
X Axis mm	Meter	Angle Deg	Orientation	EAC% / Day
0	96	360	North	0.29
20	95	337		0.36
40	94	314		0.43
60	92	291		0.57
80	91	269	West	0.64
100	90	246		0.71
120	88	223		0.86
140	85	200		1.07
160	83	177	South	1.21
180	90	154		0.71
200	79	131		1.50
220	79	109		1.50
240	82	86	East	1.29
260	84	63		1.14
280	89	40		0.79
300	92	17		0.57
315	96	0	North	0.29



Note: Cells coloured red are inputs.

The rest are either constants or calculated values.

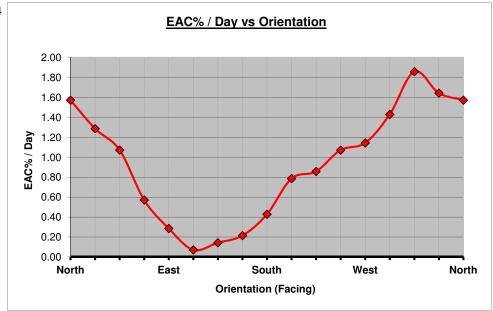


## **Gauge Number- North East 2 Location 907BRI**

**Sticky Pad Data** 

Date On Clean = 10/10/2011 Date Off 24/10/2011 Days = 14

V Auda mana	Matau	Anala Dan	Outendation	[FAC0/ / Davi
X Axis mm	Meter	Angle Deg	Orientation	EAC% / Day
0	78	360	North	1.57
20	77	337		1.64
40	74	314		1.86
60	80	291		1.43
80	84	269	West	1.14
100	85	246		1.07
120	88	223		0.86
140	89	200		0.79
160	94	177	South	0.43
180	97	154		0.21
200	98	131		0.14
220	99	109		0.07
240	96	86	East	0.29
260	92	63		0.57
280	85	40		1.07
300	82	17		1.29
315	78	0	North	1.57



Note: Cells coloured red are inputs.

The rest are either constants or calculated values.

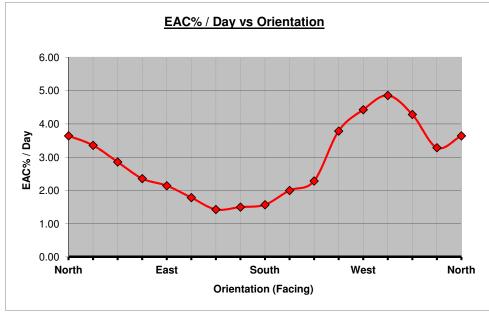


## **Gauge Number- south Location 907BRI**

**Sticky Pad Data** 

Date On Clean = 10/10/2011 Date Off 24/10/2011 Days = 14

	1	,		•
X Axis mm	Meter	Angle Deg	Orientation	EAC% / Day
0	49	360	North	3.64
20	54	337		3.29
40	40	314		4.29
60	32	291		4.86
80	38	269	West	4.43
100	47	246		3.79
120	68	223		2.29
140	72	200		2.00
160	78	177	South	1.57
180	79	154		1.50
200	80	131		1.43
220	75	109		1.79
240	70	86	East	2.14
260	67	63		2.36
280	60	40		2.86
300	53	17		3.36
315	49	0	North	3.64



Note: Cells coloured red are inputs.

The rest are either constants or calculated values.



Appendix E Groundwater Level Data

Former Bayer Cropscience Site Groundwater and surface water levels

Date	BH6/06	S3/4	BH4	BH10B/06	BH9	S1/8	BH11*	S2/6	BHB1	W1 (n)	W2	W3 (s)	Riddy 1	Riddy 2	Riddy 3	Riddy 4	V F12	V N3	WS17	P107	P73
3/10/2011	9.770	Dry	Blocked	Lost	9.999	Lost	9.488	Lost	8.800	Lost	Lost	DRY	9.179	9.349	9.545	9.655	9.558	9.487	9.471	Blocked	9.614
5/10/2011	9.820	Dry	Blocked	Lost	9.999	Lost	9.453	Lost	8.910	Lost	Lost	DRY	9.179	9.342	9.540	9.651	9.558	9.484	9.476	Blocked	9.614
10/10/2011	9.733	Dry	Blocked	Lost	10.181	Lost	9.403	Lost	Covered	Lost	Lost	DRY	9.189	9.339	9.536	9.658	Lost	9.466	9.606	Blocked	9.534
13/10/2011	9.740	Dry	Blocked	Lost	10.198	Lost	9.395	Lost	Covered	Lost	Lost	DRY	9.191	9.324	9.530	9.660	Lost	9.468	9.566	Blocked	9.474
17/10/2011	9.574	Dry	Blocked	Lost	10.207	Lost	9.291	Lost	Covered	Lost	Lost	DRY	9.216	9.287	9.530	9.662	Lost	9.436	9.672	Blocked	9.448
20/10/2011	9.580	Dry	Blocked	Lost	10.207	Lost	9.291	Lost	Covered	Lost	Lost	DRY	9.209	9.284	9.520	9.662	Lost	9.432	9.671	Blocked	9.454
25/10/2011	Lost	Dry	Blocked	Lost	10.153	Lost	9.110	Lost	9.236	Lost	Lost	DRY	9.212	9.287	9.530	9.662	Lost	9.420	9.650	Blocked	9.368
27/10/2011	Lost	Dry	Blocked	Lost	10.199	Lost	9.133	Lost	Lost	Lost	Lost	DRY	9.212	9.294	9.535	9.662	Lost	9.426	9.651	Blocked	Lost



Appendix F
Surface Water Analysis Reports



# Scientific Analysis Laboratories Ltd Certificate of Analysis

Hadfield House Hadfield Street Combrook Manchester M16 9FE

Tel: 0161 874 2400 Fax: 0161 874 2468

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

Report Number: 252532-1

Date of Report: 11-Oct-2011

Customer: VertaseFLI Limited

19 Napier Court
Barlborough Links
Barlborough
S43 4PZ

Customer Contact: The Project Management

Customer Job Reference: 907 BRI
Customer Purchase Order: 907 BRI
Date Job Received at SAL: 03-Oct-2011
Date Analysis Started: 04-Oct-2011
Date Analysis Completed: 11-Oct-2011

The results reported relate to samples received in the laboratory

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

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

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



Report checked and authorised by : Miss Emma Tibbitts Senior Project Manager Issued by : Miss Emma Tibbitts Senior Project Manager SAL Reference: 252532 Customer Reference: 907 BRI

Water Analysed as Water

Vertase Hauxton Suite

		252532 001	252532 002	252532 003			
		P73	WS17	P107			
		29-SEP-2011	29-SEP-2011	29-SEP-2011			
Determinand	Method						
Electrical Conductivity	T7	AR	10	μS/cm	4600	3000	9100
nU	T7	۸D			6.6	7.4	6.0

SAL Reference: 252532 Customer Reference: 907 BRI

Water Analysed as Water

Vertase Hauxton OP/ON Suite

			SA	L Reference	252532 001	252532 002	252532 003
		Custon	ner Samp	le Reference	P73	WS17	P107
		29-SEP-2011	29-SEP-2011	29-SEP-2011			
Determinand	Method	Test Sample	LOD	Units			SYNON
Dimefox	T16	AR	0.1	μg/l	<0.1	<0.1	<0.1
Ethofumesate	T16	AR	0.1	μg/l	0.6	2.3	18
Hempa	T16	AR	0.1	μg/l	6.8	<0.1	<0.1
Schradan	T16	AR	0.1	μg/l	11	11	9.4
Simazine	T16	AR	0.01	μg/l	<0.01	0.40	<0.01

SAL Reference: 252532 Customer Reference: 907 BRI

Water Analysed as Water

Vertase Hauxton Phenoxy Acid Herbs Suite

	1500	9-14-79	SA	L Reference	252532 001	252532 002	252532 003
		Custor	ner Sampl	e Reference	P73	WS17	P107
	29-SEP-2011	29-SEP-2011	29-SEP-2011				
Determinand	Method	Test Sample	LOD	Units			
Dicamba	T16	AR	0.1	μg/l	<0.1	<0.1	0.1
Dichlorprop	T16	AR	0.1	μg/l	1.3	0.5	0.7
Phenoxy Acetic acid herbicide: MCPA	T16	AR	0.1	μg/l	<0.1	<0.1	<0.1
Mecoprop	T16	AR	0.1	μg/l	25	25	25

SAL Reference: 252532 Customer Reference: 907 BRI

Water Analysed as Water

Vertase Hauxton SVOC Suite

			L Reference	252532 001	252532 002	252532 003	
		P73	WS17	P107			
		29-SEP-2011	29-SEP-2011	29-SEP-2011			
Determinand	Method	Test Sample	LOD	Units			
2,4,6-Trichlorophenol	T16	AR	10	μg/l	<10	<10	68
2-Methyl-4,6-dinitrophenol	T16	AR	10	μg/l	<10	<10	<10
4-Chloro-2-methylphenol	T16	AR	10	μg/l	<10	95	7100
Bis (2-chloroethyl) ether	T16	AR	10	μg/l	9000	2400	15000
Phenol	T16	AR	10	ua/l	(36) < 30	(36) < 30	(36) <30

SAL Reference: 252532 Customer Reference: 907 BRI

Water Analysed as Water

Vertase Hauxton VOC Suite

		252532 001	252532 002	252532 003								
		P73 WS17		P107								
			Da	ate Sampled	29-SEP-2011	29-SEP-2011	29-SEP-2011					
Determinand Method Test Sample LOD Units												
1,2-Dichlorobenzene	T54	AR	1	μg/l	<1	<1	1					
1,2-Dichloroethane	T54	AR	1	μg/l	<1	<1	43					
Cis-1,2-Dichloroethylene	T54	AR	1	μg/l	47	4	1100					
Cyclohexanone	T54	AR	10	μg/l	<10	<10	<10					
Tetrachloroethene	T54	AR	1	μg/l	4	1	4					
Toluene	T54	AR	1	μg/l	<1	<1	450					
Trichloroethene	T54	AR	1	μg/l	2	<1	3					
Vinyl chloride	T54	AR	1	μg/l	130	6	1800					
Xylene (Total)	T54	AR	1	μg/l	<1	<1	250					

## Index to symbols used in 252532-1

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

#### **Method Index**

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

## **Accreditation Summary**

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Electrical Conductivity	T7	AR	10	μS/cm	N	001-003
pH	T7	AR			U	001-003
Dimefox	T16	AR	0.1	μg/l	N	001-003
Ethofumesate	T16	AR	0.1	μg/l	N	001-003
Hempa	T16	AR	0.1	μg/l	N	001-003
Schradan	T16	AR	0.1	μg/l	N	001-003
Simazine	T16	AR	0.01	μg/l	N	001-003
Dicamba	T16	AR	0.1	μg/l	N	001-003
Dichlorprop	T16	AR	0.1	μg/l	N	001-003
Phenoxy Acetic acid herbicide: MCPA	T16	AR	0.1	μg/l	N	001-003
Mecoprop	T16	AR	0.1	μg/l	N	001-003
2,4,6-Trichlorophenol	T16	AR	10	μg/l	U	001-003
2-Methyl-4,6-dinitrophenol	T16	AR	10	μg/l	N	001-003
4-Chloro-2-methylphenol	T16	AR	10	μg/l	N	001-003
Bis (2-chloroethyl) ether	T16	AR	10	μg/l	U	001-003
Phenol	T16	AR	10	μg/l	U	001-003
1,2-Dichlorobenzene	T54	AR	1	μg/l	U	001-003
1,2-Dichloroethane	T54	AR	1	μg/l	U	001-003
Cis-1,2-Dichloroethylene	T54	AR	1	μg/l	U	001-003
Cyclohexanone	T54	AR	10	μg/l	N	001-003
Tetrachloroethene	T54	AR	1	μg/l	U	001-003
Toluene	T54	AR	1	μg/l	U	001-003
Trichloroethene	T54	AR	1	μg/l	U	001-003
Vinyl chloride	T54	AR	1	μg/l	U	001-003
Xylene (Total)	T54	AR	1	μg/l	U	001-003



# Scientific Analysis Laboratories Ltd Certificate of Analysis

Hadfield House Hadfield Street Cornbrook Manchester M16 9FE

Tel: 0161 874 2400 Fax: 0161 874 2468

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

Report Number: 255397-1

Date of Report: 04-Nov-2011

Customer: VertaseFLI Limited

19 Napier Court
Barlborough Links
Barlborough
S43 4PZ

Customer Contact: The Project Management

Customer Job Reference: 907 BRI
Customer Purchase Order: 907 BRI
Date Job Received at SAL: 27-Oct-2011
Date Analysis Started: 27-Oct-2011
Date Analysis Completed: 04-Nov-2011

The results reported relate to samples received in the laboratory

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

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

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



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

SAL Reference: 255397 Customer Reference: 907 BRI

Water Analysed as Water

Vertase Hauxton Suite

			SA	255397 001	255397 002	255397 003	255397 004	
		Custon	ner Sampl	WS17	BH11	ВН9	VN3	
	Da	26-OCT-2011	26-OCT-2011	26-OCT-2011	26-OCT-2011			
Determinand	Method	Test Sample						
Electrical Conductivity	T7	AR	10	μS/cm	5200	2100	1200	2400
pН	T7	AR			5.4	5.4	5.1	5.1

SAL Reference: 255397 Customer Reference: 907 BRI

Water Analysed as Water

			SA	L Reference	255397 001	255397 002	255397 003	255397 004
		Custon	ner Sampl	le Reference	WS17	BH11	ВН9	VN3
	Date Sampled 26-OCT-2011 26-OCT-2011 26-O					26-OCT-2011	26-OCT-2011	
Determinand	Method	Test Sample	LOD	Units				
Dimefox	T16	AR	0.1	μg/l	<0.1	<0.1	<0.1	<0.1
Ethofumesate	T16	AR	0.1	μg/l	1.3	13	16	14
Hempa	T16	AR	0.1	μg/l	8.1	6.4	18	<0.1
Schradan	T16	AR	0.1	μg/l	6.3	6.1	20	4.7
Simazine	T16	AR	0.01	ua/l	0.04	0.02	0.28	0.08

SAL Reference: 255397 Customer Reference: 907 BRI

Water Analysed as Water

Vertase Hauxton Phenoxy Acid Herbs Suite

		255397 001	255397 002	255397 003	255397 004			
		Custon	ner Sampl	e Reference	WS17	BH11	ВН9	VN3
			Da	ate Sampled	26-OCT-2011	26-OCT-2011	26-OCT-2011	26-OCT-2011
Determinand	Method	Test Sample	LOD	Units				
Dicamba	T16	AR	0.1	μg/l	<0.1	<0.1	<0.1	<0.1
Dichlorprop	T16	AR	0.1	μg/l	1.6	0.5	0.3	0.2
Phenoxy Acetic acid herbicide: MCPA	T16	AR	0.1	μg/l	<0.1	<0.1	0.1	<0.1
Mecoprop	T16	AR	0.1	ua/l	27	7.9	4.2	24

SAL Reference: 255397 Customer Reference: 907 BRI

Water Analysed as Water

Vertase Hauxton SVOC Suite

			255397 001	255397 002	255397 003	255397 004		
		Custon	WS17	BH11	ВН9	VN3		
			26-OCT-2011	26-OCT-2011	26-OCT-2011	26-OCT-2011		
Determinand	Method	Test Sample	Units					
2,4,6-Trichlorophenol	T16	AR	10	μg/l	<10	<10	<10	<10
2-Methyl-4,6-dinitrophenol	T16	AR	10	μg/l	<10	(36) < 30	<10	(36) < 30
4-Chloro-2-methylphenol	T16	AR	10	μg/l	<10	11	<10	<10
Bis (2-chloroethyl) ether	T16	AR	10	μg/l	10000	300	<10	510
Phenol	T16	AR	10	μg/l	(9,36) <300	(36) < 30	(36) < 30	(36) < 30

SAL Reference: 255397 Customer Reference: 907 BRI Water Analysed as Water Vertase Hauxton VOC Suite SAL Reference 255397 001 255397 002 255397 003 255397 004 **Customer Sample Reference** WS17 BH11 ВН9 Date Sampled 26-OCT-2011 26-OCT-2011 26-OCT-2011 26-OCT-2011 Test Sample Method LOD Units Determinand 1,2-Dichlorobenzene T54 AR <1 <1 <1 <1 μg/l T54 AR <1 <1 <1 1,2-Dichloroethane μg/l <1 T54 Cis-1,2-Dichloroethylene AR 49 μg/l Cyclohexanone T54 10 <10 <10 <10 <10 μg/l Tetrachloroethene T54 AR 120 80 17 210 μg/l Toluene T54 AR μg/l <1 <1 <1 Trichloroethene T54 AR μg/l 2 2 2

μg/l

μg/l

T54

T54

Vinyl chloride

Xylene (Total)

AR

AR

## Index to symbols used in 255397-1

2

<1

<1

<1

<1

<1

110

<1

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

#### **Method Index**

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

## **Accreditation Summary**

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



# Scientific Analysis Laboratories Ltd Certificate of Analysis

Hadfield House Hadfield Street Cornbrook Manchester M16 9FE

Tel: 0161 874 2400 Fax: 0161 874 2468

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

Report Number: 255891-2

Date of Report: 08-Nov-2011

Customer: VertaseFLI Limited

19 Napier Court Barlborough Links Barlborough S43 4PZ

Customer Contact: The Project Management

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

The results reported relate to samples received in the laboratory

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

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

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



Report checked and authorised by : Miss Emma Tibbitts Senior Project Manager Issued by : Miss Emma Tibbitts Senior Project Manager SAL Reference: 255891 Customer Reference: 907 BRI

Water Analysed as Water

Vertase Hauxton Suite

			SA	255891 001	255891 002	255891 003	255891 004				
		Custon	ner Sampl	RIDDY UP	RIDDY DOWN	CAM UP	CAM DOWN				
	Da	28-OCT-2011	28-OCT-2011	28-OCT-2011	28-OCT-2011						
		Test									
Determinand	Method	Sample	LOD	Units							
Electrical Conductivity	T7	AR	10	μS/cm	870	850	880	880			
pH	T7	AR			8.0	7.9	8.0	8.0			

SAL Reference: 255891
Customer Reference: 907 BRI

Water Analysed as Water

Vertase Hauxton OP/ON Suite

			SA	255891 001	255891 002	255891 003	255891 004	
		Custon	ner Sampl	RIDDY UP	RIDDY DOWN	CAM UP	CAM DOWN	
	D	28-OCT-2011	28-OCT-2011	28-OCT-2011	28-OCT-2011			
Determinand	Method	Test Sample	LOD	Units				78 10-
Dimefox	T16	AR	0.1	μg/l	<0.1	<0.1	<0.1	<0.1
Ethofumesate	T16	AR	0.1	μg/l	<0.1	<0.1	<0.1	<0.1
Hempa	T16	AR	0.1	μg/l	<0.1	<0.1	<0.1	<0.1
Schradan	T16	AR	0.1	μg/l	<0.1	<0.1	<0.1	<0.1
Simazine	T16	AR	0.01	ua/l	<0.01	<0.01	< 0.01	<0.01

SAL Reference: 255891 Customer Reference: 907 BRI

Water Analysed as Water

Vertase Hauxton Phenoxy Acid Herbs Suite

	1500	F-160 Yo	SA	L Reference	255891 001	255891 002	255891 003	255891 004
	-	Custon	ner Sampl	le Reference	RIDDY UP	RIDDY DOWN	CAM UP	CAM DOWN
			D	ate Sampled	28-OCT-2011	28-OCT-2011	28-OCT-2011	28-OCT-2011
Determinand	Method	Test Sample	LOD	Units				
Dicamba	T16	AR	0.1	μg/l	<0.1	<0.1	<0.1	<0.1
Dichlorprop	T16	AR	0.1	μg/l	<0.1	<0.1	<0.1	<0.1
Phenoxy Acetic acid herbicide: MCPA	T16	AR	0.1	μg/l	<0.1	<0.1	<0.1	0.1
Mecoprop	T16	AR	0.1	μg/l	<0.1	<0.1	<0.1	<0.1

SAL Reference: 255891 Customer Reference: 907 BRI

Water Analysed as Water

Vertase Hauxton SVOC Suite

	•		SA	L Reference	255891 001	255891 002	255891 003	255891 004
		Custon	ner Sampl	e Reference	RIDDY UP	RIDDY DOWN	CAM UP	CAM DOWN
			D	ate Sampled	28-OCT-2011	28-OCT-2011	28-OCT-2011	28-OCT-2011
Determinand	Method	Test Sample	LOD	Units				
2,4,6-Trichlorophenol	T16	AR	10	μg/l	<10	<10	<10	<10
2-Methyl-4,6-dinitrophenol	T16	AR	10	μg/l	<10	<10	<10	<10
4-Chloro-2-methylphenol	T16	AR	10	μg/l	<10	<10	<10	<10
Bis (2-chloroethyl) ether	T16	AR	10	μg/l	<10	<10	<10	<10
Phenol	T16	AR	10	μg/l	(36) < 30	(36) < 30	(36) < 30	(36) < 30

SAL Reference: 255891 Customer Reference: 907 BRI Water Analysed as Water Vertase Hauxton VOC Suite SAL Reference 255891 001 255891 002 255891 003 255891 004 **Customer Sample Reference** RIDDY UP RIDDY DOWN **CAM UP CAM DOWN** Date Sampled 28-OCT-2011 28-OCT-2011 28-OCT-2011 28-OCT-2011 Test LOD Determinand Method Units 1,2-Dichlorobenzene T54 AR <1 µq/l <1 <1 <1 1,2-Dichloroethane T54 AR μg/l <1 <1 <1 <1 Cis-1,2-Dichloroethylene T54 AR <1 <1 <1 <1 μg/l Cyclohexanone T54 AR 10 <10 <10 <10 <10 μg/l T54 AR Tetrachloroethene μg/l 2 2 3 Toluene T54 AR μg/l <1 <1 <1 Trichloroethene T54 AR μg/l <1 <1 <1 <1 Vinyl chloride T54 AR <1 <1 <1 μg/l <1

SAL Reference: 255891 Customer Reference: 907 BRI Water Analysed as Water Hauxton Screen Suite 255891 001 255891 002 255891 003 255891 004 SAL Reference RIDDY UP RIDDY DOWN CAM UP CAM DOWN **Customer Sample Reference Date Sampled** 28-OCT-2011 28-OCT-2011 28-OCT-2011 28-OCT-2011 Test Sample Determinand Method LOD Units SVOC screen hauxton T16 2000 <2000 <2000 <2000 <2000 AR μg/l VOC screen hauxton T54 AR 200 <200 <200 <200 <200 μg/l

μg/l

<1

<1

<1

<1

Xylene (Total)

T54

AR

SAL Reference: 255891 Customer Reference: 907 BRI Water Analysed as Water Hauxton SVOC/VOC Screen per peak 255891 001 255891 002 255891 003 **SAL Reference** 255891 004 Customer Sample Reference RIDDY UP RIDDY CAM UP **CAM DOWN** Date Sampled 28-OCT-2011 28-OCT-2011 28-OCT-2011 28-OCT-2011 Test Sample Method LOD Determinand Units Hauxton SVOC Screen (Top 5 additional peaks) T5 AR N.D N.D N.D. N.D Hauxton VOC Screen (Top 5 additional peaks) T5 AR N.D. N.D N.D. N.D.

#### Index to symbols used in 255891-2

Value	Description
AR	As Received
N.D.	Not Detected
9	LOD raised due to dilution of sample
175	Results should be viewed with caution due to being outside of the instrument calibration range
36	LOD Raised due to low Matrix spike recovery
19	Due to high levels the analysis was conducted on a diluted sample
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

#### **Method Index**

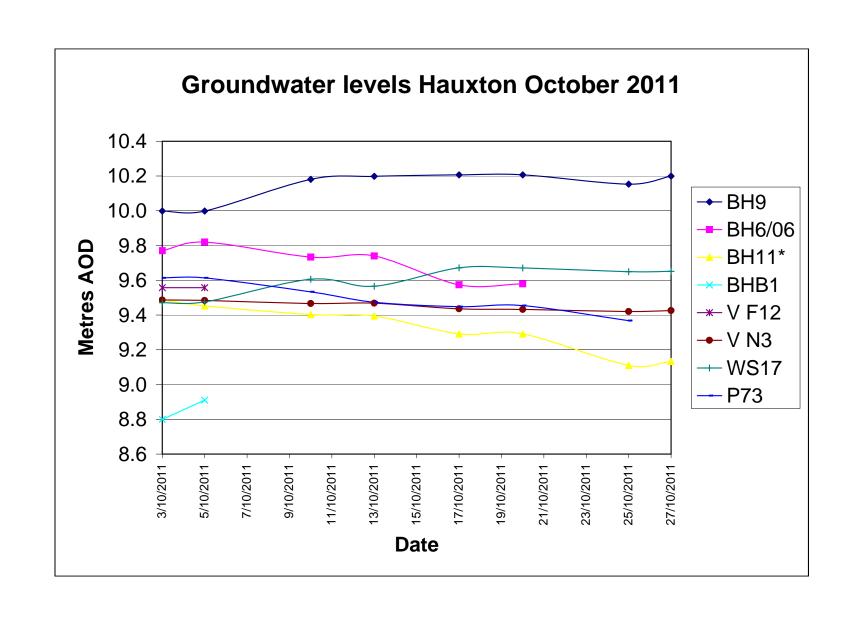
Value	Description
T16	GC/MS
T7	Probe
T5	Suite
T54	GC/MS (Headspace)

# **Accreditation Summary**

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
SVOC screen hauxton	T16	AR	2000	μg/l	N	001-004
VOC screen hauxton	T54	AR	200	μg/l	N	001-004
Dimefox	T16	AR	0.1	μg/l	N	001-004
Ethofumesate	T16	AR	0.1	μg/l	N	001-004
Hempa	T16	AR	0.1	μg/l	N	001-004
Schradan	T16	AR	0.1	μg/l	N	001-004
Simazine	T16	AR	0.01	μg/l	N	001-004
Dicamba	T16	AR	0.1	μg/l	N	001-004
Dichlorprop	T16	AR	0.1	μg/l	N	001-004
Phenoxy Acetic acid herbicide: MCPA	T16	AR	0.1	μg/l	N	001-004
Mecoprop	T16	AR	0.1	μg/l	N	001-004
2,4,6-Trichlorophenol	T16	AR	10	μg/l	U	001-004
2-Methyl-4,6-dinitrophenol	T16	AR	10	μg/l	N	001-004
4-Chloro-2-methylphenol	T16	AR	10	μg/l	N	001-004
Bis (2-chloroethyl) ether	T16	AR	10	μg/l	U	001-004
Phenol	T16	AR	10	μg/l	U	001-004
1,2-Dichlorobenzene	T54	AR	1	μg/l	U	001-004
1,2-Dichloroethane	T54	AR	1	μg/l	U	001-004
Cis-1,2-Dichloroethylene	T54	AR	1	μg/l	U	001-004
Cyclohexanone	T54	AR	10	μg/l	N	001-004
Tetrachloroethene	T54	AR	1	μg/l	U	001-004
Toluene	T54	AR	1	μg/l	U	001-004
Trichloroethene	T54	AR	1	μg/l	U	001-004
Vinyl chloride	T54	AR	1	μg/l	U	001-004
Xylene (Total)	T54	AR	1	μg/l	U	001-004
Hauxton SVOC Screen (Top 5 additional peaks)	T5	AR			N	001-004
Hauxton VOC Screen (Top 5 additional peaks)	T5	AR			N	001-004
Electrical Conductivity	T7	AR	10	μS/cm	N	001-004
pH	T7	AR			U	001-004



Appendix G Groundwater Level Graph





Appendix H Waste Water Treatment Plant Discharge Analysis

														Total					
														Atrazine,					
							Suspended		Biochemical					Trietazine					
				Dramida	Chloride	Sulphate	Solids	Ammoniacal	Oxygen Demand	nII.	Atronios	Trieterine	Cimazina	and	Danazalia	0 0 C TD 4	Disamba	Hamna	Cabradan
0 1 7 1	ID (D)	D (N)	0 11 "	Bromide		lon	(Total)	Nitrogen		рп		Trietazine				2,3,6-TBA			
Sample Taken		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
		ented Levels	I	50	3000	5000	45	15	30	na		otal of all th		250	50	20	50	274	135
13/1/201			WWTW Discharge	<0.2	92.00	140.00	<10	0.38	<3	7.6	<0.01	0.05	<0.01	0.05	<0.1	<0.1	0.1	15	6.5
15/2/201			WWTW Discharge	<0.1	170.00	220.00	<10	0.08	<3	9.1	<0.01	<0.01	<0.01	0.00	1.1	<0.1	<0.01	<0.1	<0.1
23/2/201			WWTW Discharge	1.70	200.00	250.00	<10	<0.05	<3	8.1	<0.01	<0.01	<0.01	0.00	<0.1	0.20	<0.1	0.40	0.20
2/3/201			WWTW Discharge	<0.1	220.00	290.00	<10	<0.05	<3	8.2	<0.01	0.02	<0.01	0.02	<0.1	0.4	<0.1	0.9	0.4
7/3/201			WWTW Discharge	NT	NT	NT	NT	NT	NT	8.1	NT	NT	<0.01	NT	NT	NT	0.20	0.6	0.3
23/3/201	1 1/4/2011		WWTW Discharge	<0.1	190.00	210.00	<10	<0.05	<3	7.9	<0.01	0.02	<0.01	0.02	<0.1	<0.1	<0.1	0.5	0.2
5/4/201	1 13/4/2011		WWTW Discharge	<0.1	190.00	200.00	<10	<0.05	<3	8.0	<0.01	0.03	<0.01	0.03	<0.1	0.8	<0.1	1.1	0.5
20/4/201			WWTW Discharge	<0.1	150.00	190.00	<10	< 0.05	<3	4.0	<0.01	<0.01	<0.01	0.00	<0.1	<0.1	<0.1	1.2	0.4
4/5/2011		236232	WWTW Discharge	<0.2	150.00	180.00	<10	<0.01	<3	8.1	0.03	0.07	0.01	0.11	<0.1	0.8	<0.1	0.8	0.3
12/5/2011	1 26/5/2011	237211	WWTW Discharge	<0.1	160.00	190.00	15	0.18	<3	8.1	0.03	0.09	<0.01	0.12	<0.1	0.3	<0.1	0.5	<0.1
18/5/201	1 31/5/2011	237962	WWTW Discharge	<0.1	130.00	170.00	<10	< 0.05	<3	7.9	<0.01	<0.01	<0.01	0.00	<0.1	0.2	0.1	0.4	0.1
2/6/201	1 14/6/2011	239421	WWTW Discharge	0.5	130.00	190.00	<10	< 0.05	<3	7.8	0.05	0.07	< 0.01	0.12	<0.1	3.3	0.3	10	6.7
14/6/201	1 22/6/2011	240642	WWTW Discharge	<0.1	140.00	220.00	<10	< 0.05	24	8.1	<0.01	<0.01	<0.01	0.00	<0.1	2.5	<0.1	31	30
29/6/201	1 7/7/2011	242142	WWTW Discharge	<0.2	160.00	260.00	<10	< 0.05	<3	8.2	<0.01	0.01	<0.01	0.01	<0.1	<0.1	<0.1	16	5
11/7/201	1 21/7/2011	243434	WWTW Discharge	<0.1	150.00	240.00	<10	< 0.05	<3	8.1	<0.01	0.03	<0.01	0.03	<0.1	3	<0.1	12	9.9
25/7/201	1 1/8/2011	244979	WWTW Discharge	<0.1	150.00	240.00	<10	0.07	<3	8.2	<0.01	<0.01	<0.01	0.00	<0.1	10	0.4	19	12
30/8/201	1 8/9/2011	249090	WWTW Discharge	0.3	89.00	95.00	<10	< 0.05	<3	8.0	0.01	0.04	<0.01	0.05	<0.1	0.1	<0.1	23	8.7
8/9/201	1 19/9/2011	250134	WWTW Discharge	0.3	100.00	99.00	<10	< 0.05	<3	8.4	0.01	0.02	<0.01	0.03	<0.1	1.1	<0.01	<0.1	<0.1



# Scientific Analysis Laboratories Ltd Certificate of Analysis

Hadfield House Hadfield Street Cornbrook Manchester M16 9FE

Tel: 0161 874 2400 Fax: 0161 874 2468

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

Report Number: 250134-1

Date of Report: 19-Sep-2011

Customer: VertaseFLI Limited

19 Napier Court Barlborough Links Barlborough S43 4PZ

Customer Contact: The Project Management

Customer Job Reference: 907 BRI
Customer Purchase Order: 907 BRI
Date Job Received at SAL: 12-Sep-2011
Date Analysis Started: 12-Sep-2011
Date Analysis Completed: 19-Sep-2011

The results reported relate to samples received in the laboratory

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

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

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



Report checked and authorised by : Miss Emma Tibbitts Senior Project Manager Issued by : Miss Emma Tibbitts Senior Project Manager SAL Reference: 250134 Customer Reference: 907 BRI

Water Analysed as Water

Miscellaneous

			SA	L Reference	250134 001	250134 002
		Custon	ner Samp	e Reference	WWTW Primary	WWTW Discharge
			D	ate Sampled	08-SEP-2011	08-SEP-2011
Determinand	Method	Test Sample	LOD	Units		
Ammoniacal nitrogen	T4	AR	0.05	mg/l	0.11	<0.05
Biochemical Oxygen Demand	T7	AR	3	mg/l	<3	<3
pН	T7	AR			8.2	8.4

SAL Reference: 250134 Customer Reference: 907 BRI

Water Analysed as Water

Suite A

			SA	L Reference	250134 001	250134 002
		Custon	ner Sampl	e Reference	WWTW Primary	WWTW Discharge
			Da	ate Sampled	08-SEP-2011	08-SEP-2011
Determinand	Method	Test Sample	LOD	Units		
Atrazine	T16	AR	0.01	μg/l	0.04	0.01
Trietazine	T16	AR	0.01	μg/l	0.10	0.02

SAL Reference: 250134
Customer Reference: 907 BRI

Water Analysed as Water

Suita F

Suite B						
		100	SA	L Reference	250134 001	250134 002
		Custon	ner Sampl	le Reference	<b>WWTW Primary</b>	WWTW Discharge
			D	ate Sampled	08-SEP-2011	08-SEP-2011
Determinand	Method	Test Sample	LOD	Units		
Benazolin	T16	AR	0.1	μg/l	<0.1	<0.1
2,3,6-TCB	T16	AR	0.1	μg/l	1.6	1.1

SAL Reference: 250134 Customer Reference: 907 BRI

Water Analysed as Water

Suite C

			SA	L Reference	250134 001	250134 002
		Custon	ner Sampl	le Reference	WWTW Primary	WWTW Discharge
			D	ate Sampled	08-SEP-2011	08-SEP-2011
Determinand	Method	Test Sample	LOD	Units		
Bromide	T253	AR	0.1	mg/l	0.2	0.3
Chloride	T253	AR	0.2	mg/l	78	100
Sulphate ion	T253	AR	0.1	mg/l	63	99
Suspended Solids (Total)	T2	AR	10	ma/l	<10	<10

SAL Reference: 250134 Customer Reference: 907 BRI Water Analysed as Water Suite D 250134 001 250134 002 SAL Reference **Customer Sample Reference WWTW Primary WWTW Discharge** 08-SEP-2011 08-SEP-2011 Date Sampled Test Sample Determinand Method LOD Units Dicamba T16 AR 0.1 μg/l <0.1 <0.1 T16 AR 0.1 0.1 <0.1 μg/l T16 Simazine AR 0.01 0.02 <0.01

μg/l

μg/l

<0.1

SAL Re	eference:	250134				
Customer Re	eference:	907 BRI				
Water		Analysed	as Water			
Suite E						
			SA	L Reference	250134 001	250134 002
		Custon	ner Sampl	e Reference	WWTW Primary	WWTW Discharge
			D	ate Sampled	08-SEP-2011	08-SEP-2011
Determinand	Method	Test Sample	LOD	Units		
TVC at 22 C	T34	AR	10	cfu/ml	4200	5600
TVC at 37 C	T34	AR	10	cfu/ml	720	260

Schradan

T16

AR

## Index to symbols used in 250134-1

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

#### **Method Index**

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

### **Accreditation Summary**

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Ammoniacal nitrogen	T4	AR	0.05	mg/l	U	001-002
Biochemical Oxygen Demand	T7	AR	3	mg/l	N	001-002
рН	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	0.1	mg/l	WU	001-002
Chloride	T253	AR	0.2	mg/l	WU	001-002
Sulphate ion	T253	AR	0.1	mg/l	WU	001-002
Suspended Solids (Total)	T2	AR	10	mg/l	N	001-002
Dicamba	T16	AR	0.1	μg/l	N	001-002
Hempa	T16	AR	0.1	μg/l	N	001-002
Schradan	T16	AR	0.1	μg/l	N	001-002
Simazine	T16	AR	0.01	μg/l	N	001-002
TVC at 22 C	T34	AR	10	cfu/ml	WN	001-002
TVC at 37 C	T34	AR	10	cfu/ml	WN	001-002



# Scientific Analysis Laboratories Ltd Certificate of Analysis

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Tel: 0161 874 2400 Fax: 0161 874 2468

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

Report Number: Supplement to 255211-1

Date of Report: 03-Nov-2011

Customer: VertaseFLI Limited

19 Napier Court
Barlborough Links
Barlborough
S43 4PZ

Customer Contact: The Project Management

Customer Job Reference: 907 BRI
Customer Purchase Order: 907 BRI
Date Job Received at SAL: 26-Oct-2011
Date Analysis Started: 26-Oct-2011
Date Analysis Completed: 02-Nov-2011

The results reported relate to samples received in the laboratory

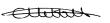
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Tests covered by this certificate were conducted in accordance with SAL SOPs



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



SAL Reference: 255211 Customer Reference: 907 BRI

Water Analysed as Water

Miscellaneous

SAL Reference	255211 001	255211 002
Customer Sample Reference	DISCHARGE	PRIMARY
Date Sampled	24-OCT-2011	24-OCT-2011

Determinand	Method	Test Sample	LOD	Units		
Ammoniacal nitrogen	T4	AR	0.05	mg/l	0.37	0.35
Biochemical Oxygen Demand	T7	AR	3	mg/l	<3	<3
pH	T7	AR			4.9	4.8

SAL Reference: 255211 Customer Reference: 907 BRI

Water Analysed as Water

Suite A

			SA	L Reference	255211 001	255211 002
		Custon	ner Sampl	e Reference	DISCHARGE	PRIMARY
			D	ate Sampled	24-OCT-2011	24-OCT-2011
Determinand	Method	Test Sample	LOD	Units		

Determinand	Method	Test Sample	LOD	Units		
Atrazine	T16	AR	0.01	μg/l	0.02	0.32
Trietazine	T16	AR	0.01	μg/l	0.03	0.16

SAL Reference: 255211 Customer Reference: 907 BRI

Water Analysed as Water

Suite B

SAL Refer	ence 25	55211 001	255211 002
Customer Sample Refer	ence DIS	SCHARGE	PRIMARY
Date San	npled 24-	OCT-2011	24-OCT-2011
Test			

Determinand	Method	Test Sample	LOD	Units		
Benazolin	T16	AR	0.1	μg/l	<0.1	0.1
2,3,6-TCB	T16	AR	0.1	μg/l	0.2	20

SAL Reference: 255211 Customer Reference: 907 BRI

Water Analysed as Water

T253

T2

AR

AR

Suite C

Sulphate ion

Suspended Solids (Total)

			SA	L Reference	255211 001	255211 002
		Custon	ner Sampl	e Reference	DISCHARGE	PRIMARY
			Da	ate Sampled	24-OCT-2011	24-OCT-2011
Determinand	Method	Test Sample	LOD	Units		
Bromide	T253	AR	0.1	mg/l	<sup>(9)</sup> <1.0	<sup>(9)</sup> <1.0
Chloride	T253	AR	0.2	mg/l	170	110

0.1

10

mg/l

mg/l

250

<10

96

<10

SAL R	eference:	255211				
Customer R	eference:	907 BRI				
Water		Analysed	as Water			
Suite D						
			SA	L Reference	255211 001	255211 002
		Custon	ner Sampl	e Reference	DISCHARGE	PRIMARY
			Da	ate Sampled	24-OCT-2011	24-OCT-2011
Determinand	Method	Test Sample	LOD	Units		
Dicamba	T16	AR	0.1	μg/l	0.1	1.0
Hempa	T16	AR	0.1	μg/l	<0.1	<0.1
Schradan	T16	AR	0.1	μg/l	<0.1	0.8
Simazine	T16	AR	0.01	μg/l	<0.01	0.08

SA	L Reference:	255211				
Custome	r Reference:	907 BRI				
Water		Analysed	as Water			
Suite E						
			SA	L Reference	255211 001	255211 002
		Custon	ner Samp	le Reference	DISCHARGE	PRIMARY
			D	ate Sampled	24-OCT-2011	24-OCT-2011
Determinand	Method	Test Sample	LOD	Units		
TVC at 22 C	T34	AR	10	cfu/ml	160	18000
TVC at 37 C	T34	AR	10	cfu/ml	210	1200

## Index to symbols used in Supplement to 255211-1

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

#### **Notes**

Supplement report issued to amend sample references.

## **Method Index**

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

# **Accreditation Summary**

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Ammoniacal nitrogen	T4	AR	0.05	mg/l	U	001-002
Biochemical Oxygen Demand	T7	AR	3	mg/l	N	001-002
pH	T7	AR			U	001-002
Atrazine	T16	AR	0.01	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	0.1	mg/l	WU	001-002
Chloride	T253	AR	0.2	mg/l	WU	001-002
Sulphate ion	T253	AR	0.1	mg/l	WU	001-002
Suspended Solids (Total)	T2	AR	10	mg/l	N	001-002

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





Appendix I Soil Characterisation Results Summary

Results Received	Reported to SCDC	Grid square	Contaminant	Concentration (µg/kg)	Likely use/origin
12.04.2010	06.05.2010	K15		VOC/SVOC peal	s detected
12.04.2010	06.05.2010	K16	Series of Aromatic Hydrocarbons circa C <sub>13</sub> -C <sub>16</sub>	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.
			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.
15.04.2010	06.05.2010 (09.06.2010)	J16	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 <sub>14</sub>	240,000	Potential herbicide degradation products. The structures are smaller and less complex
			Unidentified branched aromatic alcohol, C <sub>18</sub>	290,000	than contaminants of concern and will therefore degrade more readily than the target contaminants and will be captured by
			Phenanthrene	4,100	Face interest and accessed during site
15.04.2010	06.05.2010	K14	Fluoranthene	4,800	Encountered and assessed during site investigation, concentration below target
13.04.2010	06.05.2010	J.2010 K14	Pyrene	3,900	value
			Benzo(b/k)Fluoranthene	2,200	
			Dodecanoic acid (Lauric acid), isooctyl ester	2,400	Lauric acid - main acid in coconut oil and palm kernel oil, is non-toxic and safe to handle, is used in many soaps, shampoos and body butters.
07.05.2010	24.05.2010	К9	Unidentified Aliphatic Hydrocarbon circa C <sub>30</sub>	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 <sub>8</sub> 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 <sub>7</sub>	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.

13.05.2010   (09.06.2010)   H9	07.05.2010	24.05.2010	L9	Unidentified Aliphatic Hydrocarbon circa C <sub>30</sub>	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.
1.2-bis(2.4.6-trichlorophenoxy)ethane	13.05.2010	24.05.2010	H8	No VOC/SVOC peaks detected		·
13.05.2010   24.05.2010   19   10   10   10   10   10   10	10.00.2010	21100.2010	1.0		6 900	Potential Prochloraz degradation product
13.05.2010					0,000	otomia. Freduct
13.05.2010				Prochloraz	9,100	Fungicide
13.05.2010   (09.06.2010)   H9   hydrocarbon containing Cl circa C <sub>8</sub>		04.05.0040		Unidentified aromatic	9,400	Potential herbicide degradation products.
13.05.2010   24.05.2010   17   No SVOC peaks detected   29.000   24.05.2010   19   24.05.2010   19   24.05.2010   19   24.05.2010   24.05.2010   19   24.05.2010   24.05.2010   24.05.2010   19   25.000   24.05.2010   24.05.2010   24.05.2010   19   25.000   24.05.2010   24.05.2010   24.05.2010   24.05.2010   24.05.2010   24.05.2010   19   25.000   24.05.2010   25.000   25.	13.05.2010		H9	hydrocarbon containing CI circa		The structures are smaller and less complex
13.05.2010   24.05.2010   17   No SVOC peaks detected   2.4-05.2010   17   No SVOC peaks detected   2.4-05.2010   24.05.2010   24.05.2010   18.05.2010   24.05.2010   19   19   19   19   10   10   10		(09.06.2010)		C <sub>8</sub>		than contaminants of concern and will
13.05.2010				Unidentified aromatic amine	2 100	therefore degrade more readily than the
13.05.2010   24.05.2010   17   No SVOC peaks detected   2,4-Dichloro-o-cresol   29,000   2,3,5-Trichlorotoluene   47,000   47,000   70,90xy)-ethane   10,00xy)-ethane   10,00xy)-ethane   10,00xy)-ethane   10,00xy)-ethane   12,000   10,00xy)-ethane   12,00xy)-ethane   13,00xy)-ethane   13,00xy)-ethane   13,00xy)-ethane   13,00xy)-ethane   14,00xy)-ethane   14,00xy)-etha					2,100	target contaminants and will be captured by
13.05.2010				Containing Cr circa C <sub>11</sub>		the remediation process.
13.05.2010	13.05.2010	24.05.2010	17	No SVOC peaks detected		·
13.05.2010				2.4-Dichloro-o-cresol	29.000	
13.05.2010				2,3,6-Trichlorotoluene	47,000	Detected by the desired and the second of th
13.05.2010				1-(2-Chloroethoxy)-2-(o-	20,000	Potential herbicide degradation product
13.05.2010   24.05.2010   19					-,	
13.05.2010   (09.06.2010)   19	40.05.0040	24.05.2010	10		25,000	Potential herbicide degradation products.
Unidentified aromatic hydrocarbon containing O circa C <sub>16-18</sub>	13.05.2010	(09.06.2010)	19	containing CI circa C <sub>7</sub>		The structures are smaller and less complex
hydrocarbon containing O circa   C <sub>16-18</sub>		,		I laidantified aromatic	42.000	than contaminants of concern and will
13.05.2010					12,000	therefore degrade more readily than the
13.05.2010   24.05.2010   J7   No VOC/SVOC peaks detected						target contaminants and will be captured by
20.05.2010   24.05.2010   J8   No VOC/SVOC peaks detected				O <sub>16-18</sub>		
20.05.2010   24.05.2010   J8   No VOC/SVOC peaks detected	13 05 2010	24 05 2010	.17	No VOC/SVOC peaks detected		<u> </u>
26.05.2010   J9   No VOC/SVOC peaks detected						
16.06.2010		21100.2010				
1.06.2010   16.06.2010   17   1.2-bis(2.4.6-trichlorophenoxy)ethane   2400.0   As for H9		16.06.2010		· · · · · · · · · · · · · · · · · · ·	2 100	Same as 2.4-Dichloro-o-cresol (I9)
16.06.2010	04.06.2010		H7	Biomoromouty phonor	2,100	Game as 2,4 Biomore & Gresor (18)
18.06.2010   16.06.2010   18   2-methyl phenol   5,500   Encountered and assessed during investigation, not a priority contaminant of concern, already inclusing the standard validation suite   1,2-dichloro-o-cresol   550,000   As for 19 and H7   2.4-Dichloro-o-cresol   550,000   As for 19 and H7   2.2-06.2010   L10   Cyclo octaatomic sulphur   16,000   As for 2,4-Dichloro-o-cresol (19, H7, Kr. Naphthalene   2,400,000   CAS 90-12-0   CAS 98-85-7   68,000,000   CAS 90-12-0   CAS 88-85-7   68,000,000   CAS 90-12-0   CAS 21120-80-9   1.2-4-Dichloro-o-cresol (19, H7, Kr. Naphthalene   13,000   CAS 90-12-0   CAS 21120-80-9   24,000   CAS 90.000   CAS	05.05.2010		K7	1,2-bis(2,4,6-	2400.0	As for H9
18.06.2010   29.06.2010   18   2-methyl phenol   5,500   Encountered and assessed during investigation, not a priority contaminant of concern, already inclusing the standard validation suite   17.06.2010   29.06.2010   K10   2,4-Dichloro-o-cresol   550,000   As for I9 and H7		(09.06.2010)		trichlorophenoxy)ethane		
18.06.2010   29.06.2010   18   2-methyl phenol   5,500   Encountered and assessed during investigation, not a priority contaminant of concern, already inclusive the standard validation suite   17.06.2010   29.06.2010   K10   2,4-Dichloro-o-cresol   550,000   As for I9 and H7	05.05.2010	16.06.2010	K8	No VOC/SVOC peaks detected		
18.06.2010   29.06.2010   18   1,2-dichlorobenzene   3,600   Contaminant of concern, already inclusive standard validation suite   17.06.2010   29.06.2010   K10   2,4-Dichloro-o-cresol   550,000   As for I9 and H7				2-methyl phenol	5,500	Encountered and assessed during site
1,2-dichlorobenzene 3,600 Contaminant of concern, already inclusive the standard validation suite 17.06.2010 (09.06.2010) K10 2,4-Dichloro-o-cresol 550,000 As for I9 and H7 (09.06.2010) L10 Cyclo octaatomic sulphur 16,000 As for L8 - Sulphur Dichloromethyl phenol 1,800,000 As for 2,4-Dichloro-o-cresol (I9, H7, K100,000) Encountered and assessed during site investigation, not a priority contaminant 1-methylnaphthalene 2,400,000 Encountered and assessed during site investigation, not a priority contaminant 1-methylnaphthalene 2,400,000 Encountered and assessed during site investigation, not a priority contaminant 1-methylnaphthalene be assessed separately 2-(1-methylpropyl)-4,6-dinitro-phen 6,8000,000 Encountered and assessed during site investigation, not a priority contaminant 1-methylnaphthalene 2,400,000 Encountered and assessed during site investigation, not a priority contaminant 1-methylnaphthalene 2,400,000 Encountered and assessed during site investigation, not a priority contaminant 1-methylnaphthalene 2,400,000 Encountered and assessed during site investigation, not a priority contaminant 1-methylnaphthalene 2,400,000 Encountered and assessed during site investigation, not a priority contaminant 1-methylnaphthalene 2,400,000 Encountered and assessed during site investigation, not a priority contaminant 1-methylnaphthalene 2,400,000 Encountered and assessed during site investigation, not a priority contaminant 1-methylnaphthalene 2,400,000 Encountered and assessed during site investigation, not a priority contaminant 1-methylnaphthalene 2,400,000 Encountered and assessed during site investigation, not a priority contaminant 1-methylnaphthalene 2,400,000 Encountered and assessed during site investigation, not a priority contaminant 1-methylnaphthalene 2,400,000 Encountered and assessed during site investigation, not a priority contaminant 1-methylnaphthalene 2,400,000 Encountered and assessed during site investigation, not a priority contaminant 1-methylnaphthalene 2,400,000 Encountered and assessed duri				, ,	,	investigation, not a priority contaminant
17.06.2010   29.06.2010   K10   2,4-Dichloro-o-cresol   550,000   As for I9 and H7	18.06.2010	29.06.2010	18	1.2-dichlorobenzene	3.600	Contaminant of concern, already included in
17.06.2010   29.06.2010   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	17.06.2010	29.06.2010	K10	2,4-Dichloro-o-cresol	550,000	As for I9 and H7
Dichloromethyl phenol   1,800,000   As for 2,4-Dichloro-o-cresol (I9, H7, K²		(09.06.2010)			,	
Dichloromethyl phenol   1,800,000   As for 2,4-Dichloro-o-cresol (I9, H7, K²	22.06.2010	,	L10	Cyclo octaatomic sulphur	16,000	As for L8 - Sulphur
Naphthalene					1,800,000	As for 2,4-Dichloro-o-cresol (I9, H7, K10)
20.07.2010  21.07.2010  Example 1-methylnaphthalene 2,400,000 investigation, not a priority contaminant in the pri					4,600,000	
20.07.2010   21.07.2010   K10 NAPL   1-methylnaphthalene   CAS 90-12-0   Dinoseb   CAS 88-85-7   68,000,000   CAS 90-12-0   Dinoseb   CAS 88-85-7   68,000,000   CAS 90-12-0   CAS 88-85-7   CAS 90-12-0   CAS 90-						investigation, not a priority contaminant
CAS 90-12-0   Dinoseb   CAS 88-85-7   Dinoseb   Dinose	00.07.0040	04.07.0040	K40 NADI		, ,	More toxic than 2-methylnaphthalene, must
CAS 88-85-7   68,000,000   herbicide and insecticide. Yellow crys solid.	20.07.2010	21.07.2010	K10 NAPL		2,400,000	
Solid.   Dichloromethyl phenol   24,000   As for 2,4-Dichloro-o-cresol (I9, H7, K1				Dinoseb		2-(1-methylpropyl)-4,6-dinitro- phenol -
Dichloromethyl phenol   24,000   As for 2,4-Dichloro-o-cresol (I9, H7, K'   1-(2-Chloroethoxy)-2-(o-   Tolyloxy)-ethane   13,000   Same as I9   CAS 21120-80-9   1.3 4-Tichlorobanzana   28,000				CAS 88-85-7	68,000,000	herbicide and insecticide. Yellow crystalline
1-(2-Chloroethoxy)-2-(o- Tolyloxy)-ethane 13,000 Same as I9 CAS 21120-80-9 28,000				Dichloromethyl phenol	24 000	
Tolyloxy)-ethane 13,000 Same as I9  CAS 21120-80-9 28,000 28,000				, ,	24,000	73 101 2,7-DIGITIO10-0-CIESOT (13, 117, KTU)
CAS 21120-80-9					13 000	Same as I9
1.2.4-Trichlorobenzene 28.000					13,000	Same as is
				1,2,4-Trichlorobenzene	28,000	<u> </u>
24 07 2040 23 07 2040 Incountered and assessed during site	21 07 2010	22 07 2010	.110			Encountered and assessed during site

1		1	2-Chlorotoluene	60,000	investigation, not a priority contaminant
			Trichloro toluene isomer	48,000	Same as I9
			Trichloro benzenamine isomer	11,000	
			2,3-Dichlorotoluene CAS 32768-54-0	290,000	Potential herbicide degradation product
21.07.2010	22.07.2010	L11	Dichloromethyl phenol	5,000	As for 2,4-Dichloro-o-cresol (I9, H7, K10 J10)
			2,4-Dichloro-o-cresol CAS 1570-65-6	10,000	As for I9, H7, K10, J10, L11
28.07.2010	02.08.2010	H10	Trichloro toluene isomers	58,000	Same as I9, J10
28.07.2010	02.00.2010	1110	Dichlorotoluene isomer	52,000	6 possible isomers, but very little data, using surrogate.
			2-Chlorotoluene	39,000	Encountered and assessed during site
			Trichlorobenzene	350,000	investigation, not a priority contaminant
28.07.2010	02.08.2010	110	2,4-Dichloro-o-cresol CAS 1570-65-6	5,000	As for I9, H7, K10, J10, L11, H10
20.07.2010	02.00.2010	110	Trichloro toluene isomers	24,000	Same as I9, J10, H10
03.08.2010	04.08.2010	L12	2,4-Dichloro-o-cresol CAS 1570-65-6	7,000	As for I9, H7, K10, J10, L11, H10, I10
03.08.2010	04.08.2010	L13	No VOC/SVOC peaks detected		
03.08.2010	04.08.2010	K12	2,4-Dichloro-o-cresol CAS 1570-65-6	7,000	As for I9, H7, K10, J10, L11, H10, I10, L12
03.08.2010	04.08.2010	K13 sand & gravel	Cyclo octaatomic sulphur	68,000	As for L8, L10 - Sulphur
05.08.2010	N/A	K13 chalk	2,4-Dichloro-o-cresol CAS 1570-65-6	650,000	As for I9, H7, K10, J10, L11, H10, I10, L12, K12
			Trichloro toluene isomers	1,140,000	Same as I9, J10, H10, I10
			1-(2-Chloroethoxy)-2-(o-	140,000	Same as I9 and J10
			Tolyloxy)-ethane CAS 21120-80-9		
			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
l		1	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	3,400	As for I9, H7, K10, J10, L11, H10, I10, L12,
			CAS 1570-65-6		K12, K13, J11, J12

04.00.0040	05.00.0040	14.4	T-t-I D-tI	40.000	Encountries designed assessed designed to
24.08.2010	25.08.2010	J14	Total Petroleum	43,000	Encountered and assessed during site
			Hydrocarbons (C5-C12)	4.000	investigation, not a priority contaminant
			1,3,5-Trimethylbenzene	1,600	Encountered and assessed during site
			CAS 108-67-8 1,2,4-Trimethylbenzene	600	investigation, not a priority contaminant
				600	
			CAS 95-63-6 1,2,3-Trimethylbenzene	700	In a second second second second decision
			CAS 526-73-8	700	Isomers encountered and assessed during site investigation, quantitative risk
			CAS 526-73-6		assessment not required
			1-Ethyl-2-Methylbenzene	500	Potential agrochemical synthesis ingredient -
			CAS 611-14-3	500	further investigation is required
			CAS 611-14-3		luttilet investigation is required
25.08.2010	N/A	I13	1-methylnaphthalene	100	Same as K10NAPL
			CAS 90-12-0		
			Phenanthrene	200	Encountered and assessed during site
			Fluoranthene	300	investigation, not a priority contaminant
			Pyrene	300	
			Benzo(b/k)Fluoranthene	200	
01.09.2010	N/A	l14	Trichloro methyl benzene	400	Same as I9, J10, H10, I10, K13, J11
			(trichloro toluene)		
01.09.2010	N/A	l15	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	N/A	N/A I11	Dichlorocresol	3,300	As for I9, H7, K10, J10, L11, H10, I10, L12, K12, K13, J11, J12, I15
			Trichloro methyl benzene	1,000	Same as I9, J10, H10, I10, K13, J11, I14
			(trichloro toluene)	,	
			Prochloraz	800	Same as H9
			CAS 67747-09-5		
03.09.2010	N/A	l12	1-methylnaphthalene	40,000	Same as K10NAPL, I13
			CAS 90-12-0		· ·
			Dibenzofuran	24,000	Encountered and assessed during site
			Phenanthrene	60,000	investigation, not a priority contaminant
			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	220	
			CAS 107-61-9		
	N/A		Trichloro methyl benzene	230	Same as I9, J10, H10, I10, K13, J11, I14,
			(trichloro toluene)	<u> </u>	l11
			Dichloromethylphenol	2100	As for I9, H7, K10, J10, L11, H10, I10, L12,
					K12, K13, J11, J12, I15, I11
			1-(2-Chloroethoxy)-2-(o-	470	Same as I9, J10, K13
			Tolyloxy)-ethane		
			CAS 21120-80-9		
01.10.2010	N/A	H11	No VOC/SVOC peaks detected		
01.10.2010 01.10.2010	N/A 05.10.2010	H11 H12	Indane	3700000	2-ring hydrocarbon
	05.10.2010		Indane CAS 496-11-7		
			Indane	3700000 4500000	2-ring hydrocarbon As J14

22.10.2010 (216017) N/A  22.10.2010 N/A  22.10.2010 N/A (216017)  29.10.2010 N/A (216821)  01.11.2010 (216817)  01.11.2010 N/A  01.11.2010 N/A		Bis methylpropyl phenol isomer	980000	As J16
(216017) N/A  22.10.2010 N/A (216017) N/A  22.10.2010 N/A (216017) N/A (216821) N/A (216821) N/A (216821) N/A (216817) N/A  01.11.2010 N/A		1,3,5-Trimethylbenzene	3900000	Encountered and assessed during site
(216017) N/A  22.10.2010 N/A (216017) N/A  22.10.2010 N/A (216017) N/A (216821) N/A (216821) N/A (216821) N/A (216817) N/A  01.11.2010 N/A		1,2,4-Trimethylbenzene	10000000	investigation, not a priority contaminant
(216017) N/A  22.10.2010 N/A (216017) N/A  22.10.2010 N/A (216017) N/A (216821) N/A (216821) N/A (216821) N/A (216821) N/A (216817) N/A		1,2,3-Trimethylbenzene	3100000	
22.10.2010 N/A (216017) N/A (216017) N/A (216017) N/A (216821) N/A (216821) N/A (216821) N/A (216817) N/A (216817) N/A	G12	Nicotine	6400	Natural insecticide
(216017)  22.10.2010 (216017)  (216017)  29.10.2010 (216821)  29.10.2010 (216821)  01.11.2010 (216817)  N/A  01.11.2010  N/A		Dichloromethyl phenol	2900	As for I9, H7, K10, J10, L11, H10, I10, L12, K12, K13, J11, J12, I15, I11, H13
(216017)  22.10.2010 (216017)  29.10.2010 (216821)  29.10.2010 (216821)  01.11.2010 (216817)  N/A  01.11.2010 N/A		Methylpropyl phenol	9400	Encountered and assessed during site
(216017)  22.10.2010 (216017)  (216017)  29.10.2010 (216821)  29.10.2010 (216821)  01.11.2010 (216817)  N/A  01.11.2010  N/A				investigation, not a priority contaminant
(216017)  22.10.2010 (216017)  (216017)  29.10.2010 (216821)  29.10.2010 (216821)  01.11.2010 (216817)  N/A  01.11.2010  N/A		Schradan	1200	Contaminant of concern, already included in
(216017)  22.10.2010 (216017)  (216017)  29.10.2010 (216821)  29.10.2010 (216821)  01.11.2010 (216817)  N/A  01.11.2010  N/A				the standard validation suite
(216017)  29.10.2010 (216821)  29.10.2010 (216821)  01.11.2010 (216817)  N/A  01.11.2010  N/A	G13	1-methylnaphthalene CAS 90-12-0	170	Same as K10NAPL, I13, I12
(216017)  29.10.2010 (216821)  29.10.2010 (216821)  01.11.2010 (216817)  N/A  01.11.2010  N/A  01.11.2010  N/A		Isophorone	530	Encountered and assessed during site
(216017)  29.10.2010 (216821)  29.10.2010 (216821)  01.11.2010 (216817)  N/A  01.11.2010  N/A		CAS 78-59-1		investigation, not a priority contaminant
(216017)  29.10.2010 (216821)  29.10.2010 (216821)  01.11.2010 (216817)  N/A  01.11.2010  N/A		Naphthalene	690	
(216017)  29.10.2010 (216821)  29.10.2010 (216821)  01.11.2010 (216817)  N/A  01.11.2010  N/A		2-methylnaphthalene	270	7
(216017)  29.10.2010 (216821)  29.10.2010 (216821)  01.11.2010 (216817)  N/A  01.11.2010  N/A		Phenanthrene	410	
(216017)  29.10.2010 (216821)  29.10.2010 (216821)  01.11.2010 (216817)  N/A  01.11.2010  N/A		Fluoranthene	380	_
(216017)  29.10.2010 (216821)  29.10.2010 (216821)  01.11.2010 (216817)  N/A  01.11.2010  N/A  01.11.2010  N/A		Pyrene	310	
(216821) 29.10.2010 (216821) 01.11.2010 (216817)  N/A  01.11.2010 N/A	G14	No VOC/SVOC peaks detected		
(216821) 01.11.2010 (216817)  N/A  01.11.2010 N/A	H17	No VOC/SVOC peaks detected		
01.11.2010 N/A	G17	No VOC/SVOC peaks detected		
01.11.2010 N/A	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
		Benzyl Chloride	200	investigation, not a priority contaminant
		(1-chloro-2-methylbenzene CAS 95-49-8)	200	investigation, not a priority contaminant
		Methylpropyl phenol	7100	
		3,3,5-	700	7
		trimethyl cyclohexanone		
	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
		Methylpropyl phenol	22000	investigation, not a priority contaminant
		2-Methylnaphthalene	1500	7
		2,4,5-Trichlorophenol	360	7
		Chloroform	500	7
		1,2-dibromoethane	700	7
1 1		EthylBenzene	1800	7
		1,4-Dichlorobenzene	700	7
		1,2,3-Trichlorobenzene	2000	7
01.11.2010 30.11.2010	G15	Ethyl methyl phenol	18000	Risk Assessment
(216817)		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-	600	As J14, H12
			methyl benzene (ethyl toluene)		
			Ethyltoluene	300	
			Isophorone	37000	Encountered and assessed during site
				43000	
			Naphthalene		investigation, not a priority contaminant
			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	N/A	M7	No VOC/SVOC peaks detected		-
(217789)		••••	The Tody of the pount detected		
08.11.2010	N/A	M8	2-methyl phenol	11,000	Constituted and appeared during site
	IN/A	IVIO	2-methyl phenol	11,000	Encountered and assessed during site
(217789)					investigation, not a priority contaminant
08.11.2010	N/A	M6	No VOC/SVOC peaks detected		
(217793)					
08.11.2010	N/A	N6	No VOC/SVOC peaks detected		
(217793)			·		
08.11.2010	N/A	L5	No VOC/SVOC peaks detected		
(217795)	IN/A	LJ	No voc/3voc peaks delected		
, ,					
08.11.2010	N/A	M4	No VOC/SVOC peaks detected		
(217795)					
08.11.2010	N/A	M5	No VOC/SVOC peaks detected		
(217797)					
08.11.2010	N/A	N4	No VOC/SVOC peaks detected		
(217797)					
08.11.2010	N/A	N5	No VOC/SVOC peaks detected		
	IN/A	INO	No voc/svoc peaks detected		
(217797)					
08.11.2010	N/A	M9	No VOC/SVOC peaks detected		
(217800)					
18.11.2010	N/A	16	No VOC/SVOC peaks detected		
(218834)			·		
23.11.2010	N/A	L4	No VOC/SVOC peaks detected		
(219458)	11//	LT	No voo/ovoo peaks detected		
	N1/A	NO	No VOC/OV/OO		
23.11.2010	N/A	N3	No VOC/SVOC peaks detected		
(219456)					
20.01.2011	N/A	F11	No VOC/SVOC peaks detected		
(224432)					
20.01.2011	N/A	F12	No VOC/SVOC peaks detected		
(224432)			,		
20.01.2011	24.01.2011	F13	Total Petroleum Hydrocarbons	16000	Controlled Waters risk assessment required
	24.01.2011	1 13	(C8-C14)	10000	
(224432)			(00-014)		Human Health risk assessment previously
					actioned
20.01.2011	24.01.2011	E12	Total Petroleum Hydrocarbons	28000	Controlled Waters risk assessment required
(224432)			(C8-C14)		Human Health risk assessment previously
			1		actioned
	N/A		1-Ethyl-2-Methylbenzene (o-	300	As J14, H12, G15
			ethyl toluene) CAS 611-14-3		, ,
			1,2,4-Trimethylbenzene	700	Encountered and assessed during site
			1,2,7-11111611191061126116	700	ů .
					investigation, not a priority contaminant

20.01.2011	24.01.2011	E13	DDD	4100	Pesticide Risk Assessment Required.
(224432)	N/A		m/p ethyl toluene	1200	Encountered and assessed during site
			m-ethyl toluene:1-ethyl-3- methylbenzene, CAS 620-14-4		investigation, not a priority contaminants
			p-ethyl toluene: 1-ethyl-4- methylbenzene, CAS 622-96-8		
	24.01.2011		Total Petroleum Hydrocarbons (C8-C13)	73000	Controlled Waters risk assessment required, Human Health risk assessment previously actioned
	N/A		2,6-bis(1-methylpropyl)-phenol	5000	As J16, H12
			DDT	3200	Encountered and assessed during site investigation, not a priority contaminant
			4-(1-methylpropyl)phenol	2700	investigation, not a phonty contaminant
			2(1-methylpropyl)-phenol	12000	7
			1,2,3-trimethylbenzene	600	
			1,3,5-trimethylbenzene	1700	
			1,2,4-trimethylbenzene	3000	
			p-Isopropyltoluene	400	
24.01.2011 (224621)	25.01.2011	F15A	No VOC/SVOC peaks detected		
24.01.2011 (224621)	25.01.2011	F15B	No VOC/SVOC peaks detected		
09.02.2011 (226719)	10.02.2011	H6	No VOC/SVOC peaks detected		
09.02.2011 (226719)	10.02.2011	J5	No VOC/SVOC peaks detected		
09.02.2011 (226719)	10.02.2011	J6	No VOC/SVOC peaks detected		
17.03.2011 (230436)	21.03.2011	K5	Bis(2-ethylhexyl) maleate CAS 142-16-5	1,800	As L8
21.03.2011 (230436)	22.03.2011	K6	2,3-Dichlorotoluene CAS 32768-54-0	300	As J10, J11, H10, K13
			Bis(2-ethylhexyl) maleate CAS 142-16-5	2,000	As L8, K5
			Squalene CAS 7683-64-9	2,000	Natural organic compound found in the human body. Used in cosmetics, vaccines and steroid synthesis. Risk assessment not required.
			Glycerol tricaprylate CAS 538-28-8	4,700	Cosmetic ingredient. RisK Assessment notrequired.
28.03.2011 (231689)	29.03.2011	M10	No VOC/SVOC peaks detected		
30.03.2011 (232134)	01.04.2011	L14	No VOC/SVOC peaks detected		
31.03.2011	24.05.2011	TB100 (J13,	Dimethyl nitroaniline isomer	5,400	Risk Assesment Required
(232138)		K12, K13)	Chlorazine, CAS 580-48-3	2,400	listed as antipsychotic drug, very similar in structure to the herbicide simazine. Risk Assessment required.
	N/A	1	Dinoseb	57,000	As J11, K10, Already actioned
			DDD	9,300	As E13, Already actioned.
			Trietazine	8,600	Encountered and assessed during site investigation, not a priority contaminant

Results	Reported to	Grid square	Contaminant	Concentration	Likely use/origin
Received	SCDC			(µg/kg)	
12.04.2010	06.05.2010	K15		VOC/SVOC peal	ks detected
12.04.2010	06.05.2010	K16	Series of Aromatic Hydrocarbons circa C <sub>13</sub> -C <sub>16</sub>	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.
			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.
15.04.2010	06.05.2010 (09.06.2010)	J16	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 <sub>14</sub>	240,000	Potential herbicide degradation products. The structures are smaller and less complex
			Unidentified branched aromatic alcohol, C <sub>18</sub>	290,000	than contaminants of concern and will therefore degrade more readily than the target contaminants and will be captured by
			Phenanthrene	4,100	Encountered and assessed during site
15.04.2010	06.05.2010	K14	Fluoranthene	4,800	investigation, concentration below target
			Pyrene Benzo(b/k)Fluoranthene	3,900 2,200	value
			Dodecanoic acid (Lauric acid), isooctyl ester	2,400	Lauric acid - main acid in coconut oil and palm kernel oil, is non-toxic and safe to handle, is used in many soaps, shampoos and body butters.
07.05.2010 24	24.05.2010	K9	Unidentified Aliphatic Hydrocarbon circa C <sub>30</sub>	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 <sub>7</sub>	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 <sub>30</sub>	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		
			1,2-bis(2,4,6- trichlorophenoxy)ethane	6,900	Potential Prochloraz degradation product
			Prochloraz	9,100	Fungicide
	04.05.0040		Unidentified aromatic	9,400	Potential herbicide degradation products.
13.05.2010	24.05.2010 (09.06.2010)	· I Ha	hydrocarbon containing CI circa C <sub>8</sub>		The structures are smaller and less complex than contaminants of concern and will
			Unidentified aromatic amine containing CI circa C <sub>11</sub>	2,100	therefore degrade more readily than the target contaminants and will be captured by the remediation process.
13.05.2010	24.05.2010	17	No SVOC peaks detected		
			2,4-Dichloro-o-cresol	29,000	
			2,3,6-Trichlorotoluene	47,000	Potential herbicide degradation product
			1-(2-Chloroethoxy)-2-(o-Tolyloxy) ethane	20,000	Potential herbicide degradation product
13.05.2010	24.05.2010 (09.06.2010)	19	Unidentified aromatic alcohol containing CI circa C <sub>7</sub>	25,000	Potential herbicide degradation products.  The structures are smaller and less complex than contaminants of concern and will
			Unidentified aromatic hydrocarbon containing O circa $C_{16-18}$	12,000	therefore degrade more readily than the target contaminants and will be captured by the remediation process.
13.05.2010	24.05.2010	J7	No VOC/SVOC peaks detected		
20.05.2010	24.05.2010	J8	No VOC/SVOC peaks detected		
26.05.2010		J9	No VOC/SVOC peaks detected		
04.06.2010	16.06.2010 (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		

10.06.2010	20.06.2040	10	2-methyl phenol	5,500	Encountered and assessed during site investigation, not a priority contaminant
18.06.2010	29.06.2010	18	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
			Dichloromethyl phenol	1,800,000	As for 2,4-Dichloro-o-cresol (I9, H7, K10)
			Naphthalene	4,600,000	Encountered and assessed during site
			2-methylnaphthalene	3,900,000	investigation, not a priority contaminant
20.07.2010	21.07.2010	K10 NAPL	1-methylnaphthalene CAS 90-12-0	2,400,000	More toxic than 2-methylnaphthalene, must be assessed separately
			Dinoseb		2-(1-methylpropyl)-4,6-dinitro- phenol -
			CAS 88-85-7	68,000,000	herbicide and insecticide. Yellow crystalline solid.
			Dichloromethyl phenol	24,000	As for 2,4-Dichloro-o-cresol (I9, H7, K10)
			1-(2-Chloroethoxy)-2-(o-Tolyloxy) ethane CAS 21120- 80-9	13,000	Same as I9
			1,2,4-Trichlorobenzene	28,000	Encountered and assessed during site
21.07.2010	22.07.2010	J10	Trichlorobenzene	32,000	investigation, not a priority contaminant
			2-Chlorotoluene	60,000	Investigation, not a phonty contaminant
			Trichloro toluene isomer	48,000	Same as I9
			Trichloro benzenamine isomer	11,000	
			2,3-Dichlorotoluene CAS 32768-54-0	290,000	Potential herbicide degradation product
21.07.2010	22.07.2010	L11	Dichloromethyl phenol	5,000	As for 2,4-Dichloro-o-cresol (I9, H7, K10, J10)
			2,4-Dichloro-o-cresol CAS 1570-65-6	10,000	As for I9, H7, K10, J10, L11
28.07.2010	02.08.2010	08.2010 H10	Trichloro toluene isomers	58,000	Same as I9, J10
20.07.2010	02.08.2010	1110	Dichlorotoluene isomer	52,000	6 possible isomers, but very little data, using surrogate.
			2-Chlorotoluene	39,000	Encountered and assessed during site
			Trichlorobenzene	350,000	investigation, not a priority contaminant
28.07.2010	02.08.2010	2.08.2010   110	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	Cyclo octaatomic sulphur	68,000	As for L8, L10 - Sulphur
		& gravel			
05.08.2010	N/A	K13 chalk	2,4-Dichloro-o-cresol	650,000	As for I9, H7, K10, J10, L11, H10, I10, L12,
			CAS 1570-65-6		K12
			Trichloro toluene isomers	1,140,000	Same as I9, J10, H10, I10
			1-(2-Chloroethoxy)-2-(o-Tolyloxy)	140,000	Same as I9 and J10
			ethane CAS 21120-		
			80-9		
			Dichlorotoluene isomer	99,000	Same as J10, H10
			2-Chlorotoluene	12,000	Encountered and assessed during site
25 22 22 12		1777			investigation, not a priority contaminant
05.08.2010	N/A	K11	2,4-Dichloro-o-cresol	22,000	As for I9, H7, K10, J10, L11, H10, I10, L12,
			CAS 1570-65-6		K12, K13
05.08.2010	N/A	J11	2,4-Dichloro-o-cresol	220,000	As for I9, H7, K10, J10, L11, H10, I10, L12,
			CAS 1570-65-6		K12, K13
			Trichloro toluene isomers	376,000	Same as I9, J10, H10, I10, K13
			Dinoseb	90,000	Same as K10
			CAS 88-85-7		
			Diable retalisens isomer	18,000	Sama as III0 K12
			Dichlorotoluene isomer 2-Chlorotoluene	13,000	Same as H10, K13  Encountered and assessed during site
			2-Chiorotoldene	13,000	investigation, not a priority contaminant
12.08.2010	17.08.2010	J12	2-chloro Benzenemethanol	620	Potential agrochemical synthesis ingredient -
12.06.2010	17.00.2010	312	CAS 17849-38-6	020	further investigation is required
			2-Chlorobenzalazine	5,900	Truttilet investigation is required
			CAS 5328-80-3	3,300	
			2,4-Dichloro-o-cresol	2,000	As for I9, H7, K10, J10, L11, H10, I10, L12,
			CAS 1570-65-6	2,000	K12, K13, J11
			2(1-methylpropyl)-phenol	610	Encountered and assessed during site
			( 2, 3, 1, 2, 1, 3, 7, 1, 2, 2, 1, 2,		investigation, not a priority contaminant
12.08.2010	N/A	J13	2,4-Dichloro-o-cresol	3,400	As for I9, H7, K10, J10, L11, H10, I10, L12,
			CAS 1570-65-6	,	K12, K13, J11, J12
24.08.2010	25.08.2010	J14	Total Petroleum	43,000	Encountered and assessed during site
			Hydrocarbons (C5-C12)	,	investigation, not a priority contaminant
			1,3,5-Trimethylbenzene	1,600	Encountered and assessed during site
			CAS 108-67-8		investigation, not a priority contaminant
			1,2,4-Trimethylbenzene	600	7
			CAS 95-63-6		
			1,2,3-Trimethylbenzene	700	Isomers encountered and assessed during
			CAS 526-73-8		site investigation, quantitative risk
					assessment not required
			1-Ethyl-2-Methylbenzene	500	Potential agrochemical synthesis ingredient -
			CAS 611-14-3		further investigation is required
25.08.2010	N/A	l13	1-methylnaphthalene	100	Same as K10NAPL
			CAS 90-12-0		

	ĺ		Phenanthrene	200	Encountered and assessed during site
			Fluoranthene	300	investigation, not a priority contaminant
			Pyrene	300	
			Benzo(b/k)Fluoranthene	200	
01.09.2010	N/A	l14	Trichloro methyl benzene	400	Same as I9, J10, H10, I10, K13, J11
			(trichloro toluene)		
01.09.2010	N/A	l15	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	l12	1-methylnaphthalene CAS 90-12-0	40,000	Same as K10NAPL, I13
			Dibenzofuran	24,000	Encountered and assessed during site
			Phenanthrene	60,000	investigation, not a priority contaminant
			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,
			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		1,2,4-Trimethylbenzene	10000000	investigation, not a priority contaminant
			1,2,3-Trimethylbenzene	3100000	
22.10.2010	25.10.2010	G12	Nicotine	6400	Natural insecticide
(216017)	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	
Ì			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
			Benzyl Chloride (1-chloro-2-methylbenzene CAS 95-49-8)	200	investigation, not a priority contaminant
			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	2400	Same as I9, J10, H10, I10, K13, J11, I14,
			(trichloro toluene)	2400	I11, H13
				760	
			(trichloro toluene)		I11, H13

1	1		2 Mathylpaphthalana	1500	$\neg$
			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	30.11.2010	G15	Ethyl methyl phenol	18000	Risk Assessment
(216817)			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-	600	As J14, H12
			methyl benzene (ethyl toluene)		·
			Ethyltoluene	300	
			Isophorone	37000	Encountered and assessed during site
			Naphthalene	43000	investigation, not a priority contaminant
			Methylpropyl phenol	30000	
			2-Methylnaphthalene	21000	
			Phenanthrene	110000	
			Fluoranthene	69000	<del>-</del>
			1,3,5-Trimethylbenzene	900	<del>-</del>
			1,2,4-Trimethylbenzene	1600	$\dashv$
			1,2,3-Trimethylbenzene	400	$\dashv$
08.11.2010 (217789)	N/A	M7	No VOC/SVOC peaks detected	400	
08.11.2010 (217789)	N/A	M8	2-methyl phenol	11,000	Encountered and assessed during site investigation, not a priority contaminant
,	NI/A	MC	N 1/00/01/00		investigation, not a priority contaminant
08.11.2010 (217793)	N/A	M6	No VOC/SVOC peaks detected		
08.11.2010	N/A	N6	N = 1/00/01/00 = = =   =   =   =   =		
(217793)	N/A	INO	No VOC/SVOC peaks detected		
08.11.2010	N/A	L5	No VOC/SVOC peaks detected		
(217795)			The state of the s		
08.11.2010	N/A	M4	No VOC/SVOC peaks detected		
(217795)	14//		No voo/ovoo peaks detected		
08.11.2010	N/A	M5	No VOC/SVOC peaks detected		
(217797)	IN/A	IVIO	No voc/svoc peaks detected		
08.11.2010	N/A	N4	No VOC/SVOC peaks detected		
(217797)	111/71	1 1/4	No voc/svoc peaks detected		
,	N/A	NE	N= \/OC/C\/OC ====1==1======		
08.11.2010	IN/A	N5	No VOC/SVOC peaks detected		
(217797)		110			
08.11.2010	N/A	M9	No VOC/SVOC peaks detected		
(217800)					

18.11.2010	N/A	16	No VOC/SVOC peaks detected		
(218834)					
23.11.2010 (219458)	N/A	L4	No VOC/SVOC peaks detected		
23.11.2010 (219456)	N/A	N3	No VOC/SVOC peaks detected		
20.01.2011 (224432)	N/A	F11	No VOC/SVOC peaks detected		
20.01.2011 (224432)	N/A	F12	No VOC/SVOC peaks detected		
20.01.2011 (224432)	24.01.2011	F13	Total Petroleum Hydrocarbons (C8-C14)	16000	Controlled Waters risk assessment required, Human Health risk assessment previously actioned
20.01.2011 (224432)	24.01.2011	E12	Total Petroleum Hydrocarbons (C8-C14)	28000	Controlled Waters risk assessment required, Human Health risk assessment previously actioned
	N/A		1-Ethyl-2-Methylbenzene (o-ethyl toluene) CAS 611-14-3	300	As J14, H12, G15
			1,2,4-Trimethylbenzene	700	Encountered and assessed during site investigation, not a priority contaminant
20.01.2011	24.01.2011	E13	DDD	4100	Pesticide Risk Assessment Required.
(224432)	N/A		m/p ethyl toluene	1200	Encountered and assessed during site
			m-ethyl toluene:1-ethyl-3- methylbenzene, CAS 620-14-4		investigation, not a priority contaminants
			p-ethyl toluene: 1-ethyl-4- methylbenzene, CAS 622-96-8		
	24.01.2011		Total Petroleum Hydrocarbons (C8-C13)	73000	Controlled Waters risk assessment required, Human Health risk assessment previously actioned
	N/A		2,6-bis(1-methylpropyl)-phenol	5000	As J16, H12
			DDT	3200	Encountered and assessed during site investigation, not a priority contaminant
			4-(1-methylpropyl)phenol	2700	
			2(1-methylpropyl)-phenol	12000	
			1,2,3-trimethylbenzene	600	
			1,3,5-trimethylbenzene	1700	
			1,2,4-trimethylbenzene	3000	
			p-Isopropyltoluene	400	
24.01.2011 (224621)	25.01.2011	F15A	No VOC/SVOC peaks detected		
24.01.2011 (224621)	25.01.2011	F15B	No VOC/SVOC peaks detected		

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