

Nantwich Waterlogged Deposits

Phase 2 Interim Report No.5
English Heritage HEEP 3839 Main



Historic England



SLR Ref: 406.00889.00005
Version No: 1
December 2015

CONTENTS

1.0	INTRODUCTION.....	2
2.0	PROXY INDICATORS AND CHARACTERISING THE BURIAL ENVIRONMENT.....	3
3.0	RESULTS OF HYDROGEOLOGICAL ASSESSMENT.....	4
4.0	RESULTS OF GROUND GAS MONITORING	13
5.0	GROUNDWATER FLUCTUATION AND PERMEABILITY COMPARISON	14
6.0	METHODOLOGICAL IMPROVEMENTS	16
6.1	Modifications to Network of Transducer Dataloggers.....	16
6.2	Data Processing Errors	17
6.3	Gas sampling for C14 dating	18
7.0	CONCLUSIONS.....	19
8.0	CLOSURE.....	19

TABLES

Table 1	Summary of Principal Redox Indicators	3
Table 2	Geochemical Laboratory Analysis - Groundwater	10
Table 3	Permeability Results.....	14

FIGURES

Figure 1	Groundwater Level and Rainfall Data Graph (overview of all data).....	4
Figure 2	Groundwater Level and Rainfall Data Graph - 2015.....	5
Figure 3	Groundwater Levels within the Archaeological Deposits at BH F1	6
Figure 4	Dissolved Oxygen Plot – May 2015	7
Figure 5	Redox v. pH graph – 2015.....	8
Figure 6	Seasonal Redox Fluctuations.....	9
Figure 7	Comparison between Groundwater Fluctuation and Permeability	14
Figure 8	Comparison between Old and New Groundwater Level Dataloggers	16
Figure 9	Groundwater Level and Rainfall Data Graph – 2014 (with Data Errors).....	17
Figure 10	Groundwater Level and Rainfall Data Graph – 2014 (without Data Errors) ..	17
Figure 11	Gas sampling for C14.....	18
Figure 12	Preservation Zones	20

APPENDICES

Appendix A	Borehole Locations
Appendix B	Groundwater & Gas Monitoring Data
Appendix C	Laboratory Certificates
Appendix D	Transducer and Rain Gauge Data

1.0 INTRODUCTION

In November 2010, SLR Consulting Limited (SLR) was commissioned by English Heritage and Cheshire East Council to undertake Phase 2 of the Nantwich Waterlogged Deposits Project. The purpose of the project is to develop an effective methodology to monitor the condition of urban waterlogged deposits and to monitor these archaeological deposits within Nantwich as a case study over a three year period. The results of Phase 1 had identified two preservation zones within Nantwich, Zone 1 with good conditions for preservation, and Zone 2 with indications of active decay. The results of the Phase 2 study will enable an update to the strategy for managing such remains effectively, both nationally specifically for Nantwich, within the context of the need for continuing economic development within the historic centre. In September 2013 a variation was agreed by English Heritage, extending the duration of the project for a further two years, to achieve five years of monitoring data.

The details relating to Phase 1 of the Nantwich Waterlogged Deposits project are recorded in a separate report¹ completed in November 2009, followed by four annual interim reports²³⁴⁵ which summarised the works undertaken as part of Phase 2 between 2011 and 2014. These previous reports should be read in conjunction with the present report.

2015 summary

This report presents a summary of the fieldwork undertaken as part of the project during 2015, which comprised the following key elements:

- Collecting groundwater samples from each of the fifteen separate dipwell locations for geochemical laboratory analysis;
- Completing quarterly monitoring at all of the eighteen dipwells for depth to groundwater, water quality parameters and ground gas concentrations.

In addition gas samples were taken from two dipwells for radiocarbon dating determination, damaged dipwell covers have been renewed, new transducers were installed because of concerns over the condition of those that have been in the ground for four years, and two additional transducers were installed at different locations to test seasonal fluctuations in groundwater level in relation to permeability.

Two issues that arose during 2015 were the loss of dipwell AG due to resurfacing of the Bowers Row car park, and during the February testing round the Water Quality Meter developed a fault which led to inaccuracies in the data collected.

Drawings are presented in Appendix A. Appendix B presents the groundwater and gas monitoring data, Appendix C presents the analytical chemistry results and Appendix D presents the transducer and rain gauge data.

¹ SLR Consulting Limited (January 2010): *Nantwich Waterlogged Deposits Report No 2: The Character and Extent of Archaeological Preservation*

² SLR Consulting Limited (November 2011): *Nantwich Waterlogged Deposits Phase 2 Interim Report 1 (Ref:406.008889.00005)*

³ SLR Consulting Limited (November 2012): *Nantwich Waterlogged Deposits Phase 2 Interim Report 2 (Ref:406.008889.00005)*

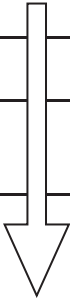
⁴ SLR Consulting Limited (December 2013): *Nantwich Waterlogged Deposits Phase 2 Interim Report 3 (Ref:406.008889.00005) – Revised May 2014*

⁵ SLR Consulting Limited (December 2014): *Nantwich Waterlogged Deposits Phase 2 Interim Report 4 (Ref:406.008889.00005)*

2.0 PROXY INDICATORS AND CHARACTERISING THE BURIAL ENVIRONMENT

Certain chemical species can only exist under specific conditions and hence their presence or absence can be used to help define soils and sediments as to whether they are oxidising or reducing environments. The standard suite of “redox sensitive parameters”, (as they are often referred to) are listed in the table below, along with the class of microbes associated with the type of burial environment. Furthermore, as these chemicals species react with others, the redox reaction that follows (redox is shorthand for reduction/oxidation) generates a transfer of electrons from one chemical species to another, and this transfer can be measured in the field using a specific electrode and mVolt meter.

Table 1
Summary of Principal Redox Indicators

Description	Species present/absent	Redox value (mV)	Microbes present	Decreasing rate of decay
Oxidising	Oxygen	400 and above	Aerobes	
Mildly reducing	Nitrate, Manganese (Mn ⁴⁺) decline,	100 to 400	Facultative anaerobes	
Reducing	Sulphate, ferric Iron (Fe ³⁺) present	-100 to 100	Facultative anaerobes and obligate anaerobes	
Highly reducing	Sulphate and ferric Iron (Fe ³⁺) disappear Sulphur (S ²⁻), ammonium (NH ₄ ⁺), ferrous Fe ²⁺ and methane present	-400 to -100	Obligate anaerobes	

Facultative anaerobes can survive when oxygen is present or absent, and obligate anaerobes die in the presence of oxygen. The energy produced by obligate anaerobes is much lower than that of aerobes hence decay rates are much slower, almost imperceptible, but it is worth repeating that decay continues in highly reducing deposits.

The detection and measurement of these redox sensitive parameters is now a standard procedure for in situ preservation research, for example the investigations conducted by the Danish and Norwegian teams at Bryggen, Bergen, and elsewhere. Land contamination and remediation programmes, for example, tracing plumes of contaminated groundwater and leachates from landfill sites use these same chemical species as proxy indicators for reducing and oxidising conditions - in fact they were probably the first to employ this chemistry principle when defining the nature of a burial environment.

Mention has been made about our references to the relative amounts (high, low etc.) of these redox sensitive chemicals in previous reports. The work we are conducting at Nantwich is in some respects ground breaking as there have been few attempts at characterising urban deposits through geochemical assays. Hence when I make reference to the high or low amounts it is within the context of our work and is relative to our ongoing programme in Nantwich rather than to a set of "standard concentrations expected in an urban environment", because none exist.

3.0 RESULTS OF HYDROGEOLOGICAL ASSESSMENT

3.1.1 Transducer Data: Rainfall and Groundwater Levels

In 2010 SLR installed transducers at six locations to monitor particularly sensitive areas within the waterlogged deposits. This provides a minimum of three transducer points on each side of the River Weaver. Therefore transducers were installed in dipwells F1, N1, P, AB, AE and AF. The transducer was installed in the original dipwell P instead of the multi-level dipwell P1 which was targeted on the organic-rich archaeological deposit, because P1 contained insufficient water. The transducer that was intended for installation in dipwell AG was moved to AB to act as a control point outside the area of archaeological deposit, and because no waterlogged deposits were recorded at the location for AG in Bowers Row Car Park. The locations of the transducers are shown on a plan in Appendix A.

The results of water level measurement from the transducers and rainfall gauge are shown in Appendix D and summarised in Figure 1 below.

Figure 1
Groundwater Level and Rainfall Data Graph (overview of all data)

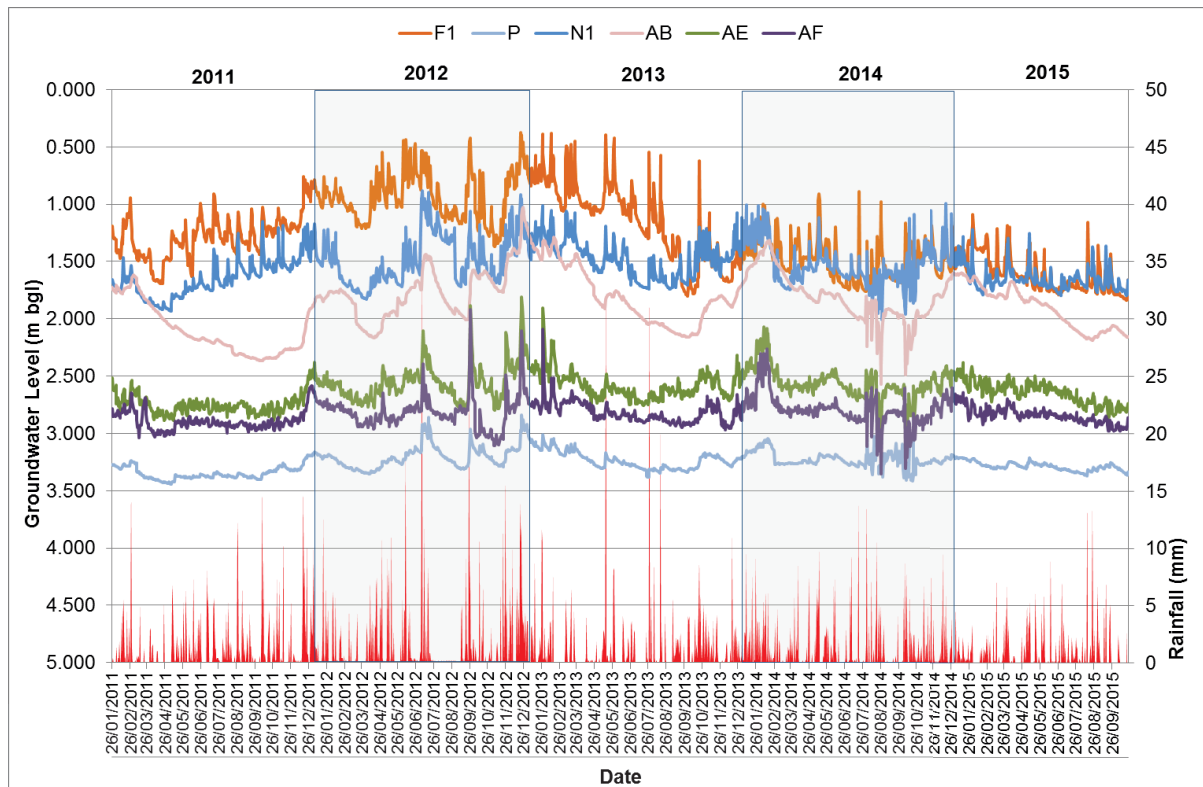
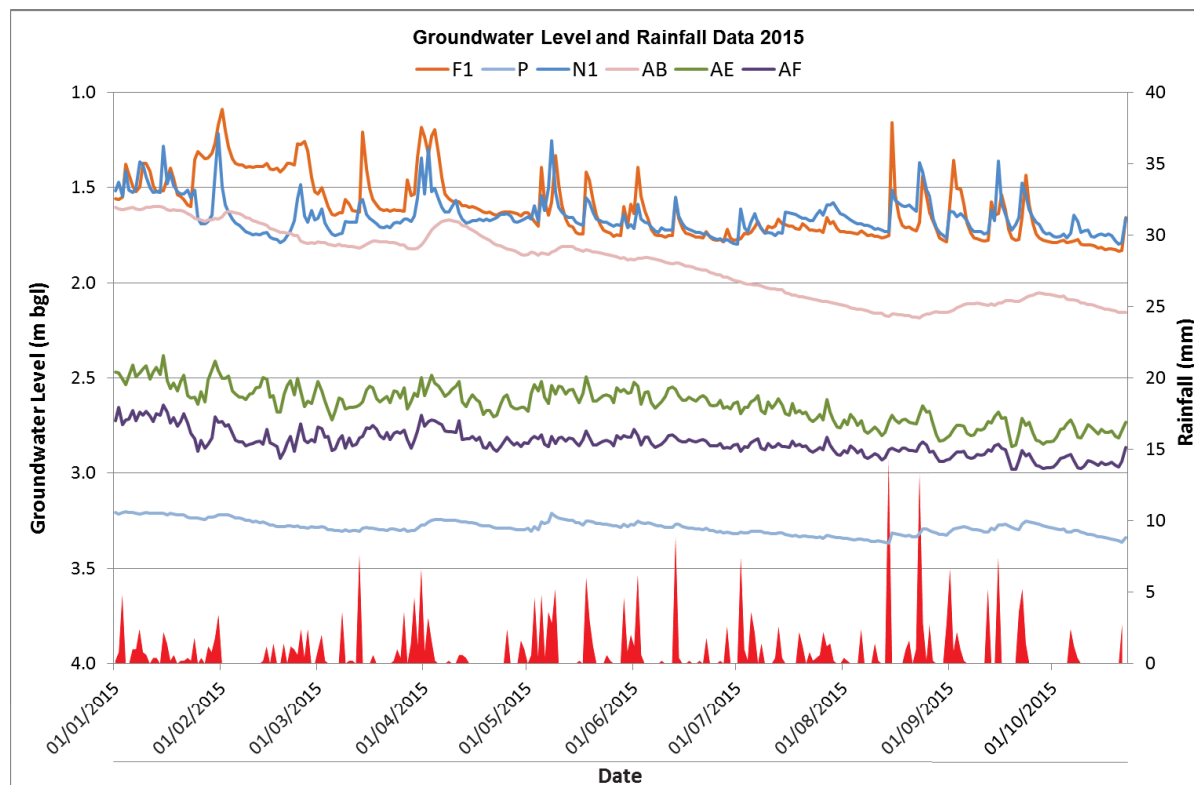


Figure 2
Groundwater Level and Rainfall Data Graph - 2015



The comparison of data from the rainfall gauge and the water level data loggers confirms the direct correlation between the water table and rainfall events (see Figure 1 and Figure 2). Overall, the total rainfall has continued to be relatively low since the period of heavy rainfall in the summer of 2013, when compared to previous years. Increased groundwater levels and periods of fluctuation generally coincide with higher levels of effective rainfall during the winter period.

Figure 2 further highlights the difference between total rainfall and effective rainfall. Although periods of rainfall from March to April and August to September caused minor increases in groundwater level, the effect of the summer rainfall was less evident primarily due to the effects of evapotranspiration and less effective rainfall. Hence the term effective rainfall.

The most stable locations appear to be at dipwells AE, AF and P, locations characterized by sandy deposits at the base of the borehole logs, whereas F1 and N1 are located with very stiff clay at the base of the recorded sequence.

The impact of effective rainfall caused by seasonal fluctuations is most evident in the results from control location, AB, although the location does not reflect the direct response to rainfall events seen at the other locations. This is located uphill on sands, and has no archaeological deposit recorded.

3.1.2 Groundwater Monitoring Data

In situ monitoring has been undertaken at eighteen dipwells at quarterly intervals since February 2011. No water has ever been recorded in dipwell P1 because the water table is located more than 1m below the archaeological deposits specifically targeted by the borehole, and therefore it has not been possible to complete any monitoring at this location,

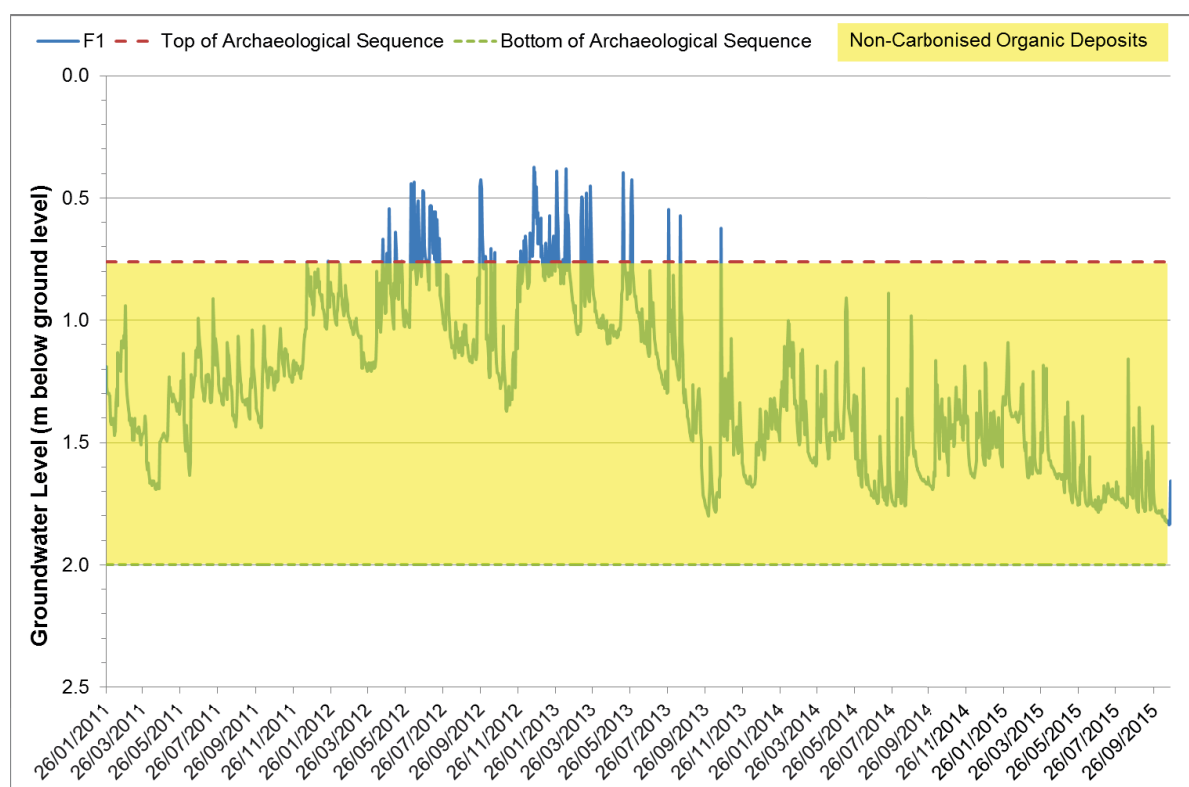
leaving 17 dipwells with viable data. In addition to groundwater depth measurements, dissolved oxygen, conductivity, pH and REDOX potential were also measured using a YSI 556™ water quality meter.

The in situ monitoring results are included in Appendix B, together with plume plots to show the variation of dissolved oxygen and REDOX potential within the waterlogged deposits across Nantwich.

The groundwater monitoring results indicate that groundwater is present between 0.37m and 3.44m below ground level, and the hydraulic gradient indicates that flow direction is toward the River Weaver from both sides of Nantwich.

Hydrographs showing the groundwater levels in relation to the archaeological and non-carbonised organic deposits are shown in Appendix B, and the results from BH F1 are shown in Figure 3 below.

Figure 3
Groundwater Levels within the Archaeological Deposits at BH F1



The results indicate that the non-carbonised organic deposits at BH F1 have remained at least partially saturated since the start of 2011 with the upper organic deposits presumably located within the capillary fringe and thus within conditions conducive for preservation of organic remains. However, mean groundwater levels have reduced by approximately 1m since the organic deposits were fully saturated in the winter of 2012/2013, a reduction which is also evident in many of the other dipwells such as AC, AE, AF, whereas at AG water levels continued to increase during 2014. The organic deposits at locations N1, AB, AC, M, O and V also remain well saturated.

The organic deposits at AE and AF are situated above the groundwater level. This suggests that the good levels of preservation historically recorded through archaeological excavation

in this area are potentially due to location of the deposits within the capillary zone, otherwise more evidence of decay would be expected if the deposits were actively drying out. The data also confirms that the organic deposits at BH P remain over 1m above the water table, which would make them vulnerable and prone to accelerated decay.

Dissolved Oxygen

Figure 4
Dissolved Oxygen Plot – May 2015

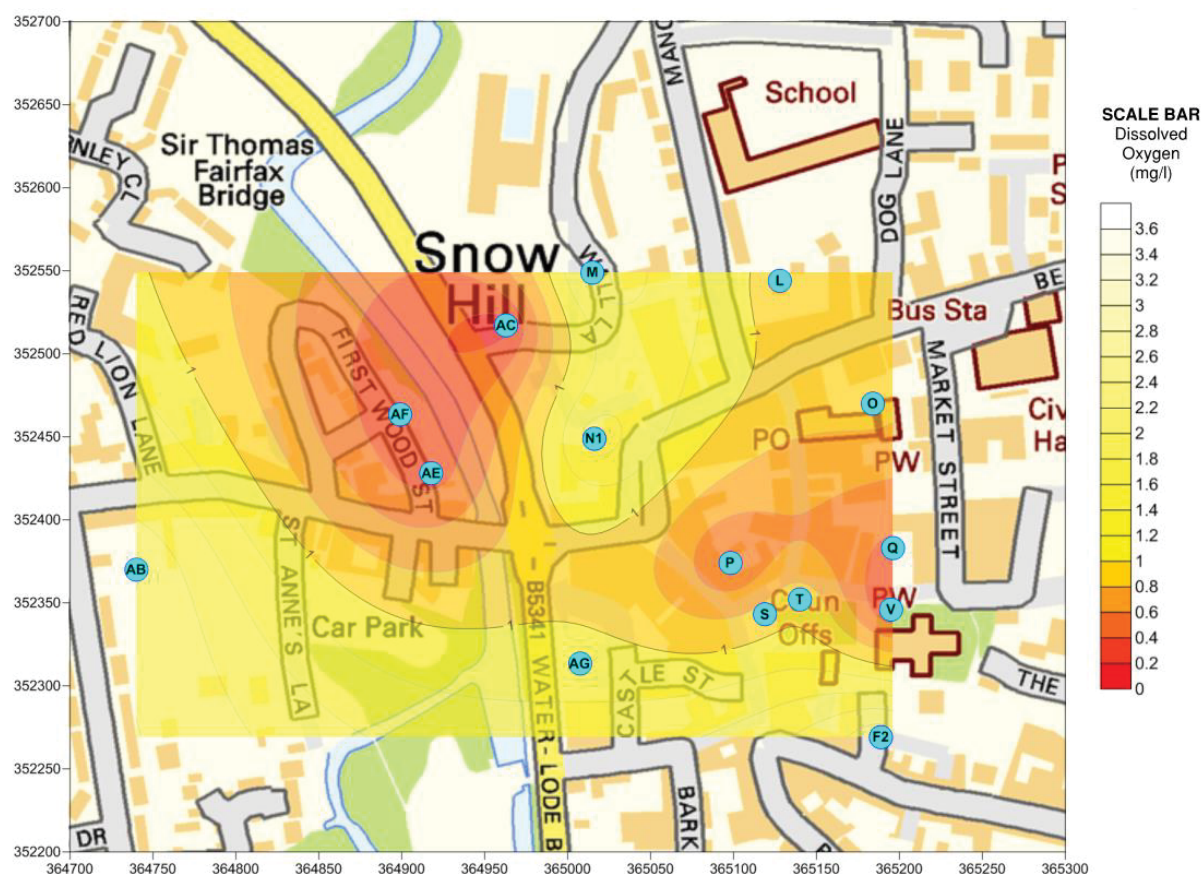


Figure 4 above indicates that within the northern part of the area being monitored at Nantwich, the lowest concentrations of dissolved oxygen are generally recorded within 100m of the River Weaver. Together with the other indications of reducing conditions generally recorded in that area, this suggests good conditions conducive for preservation exist, despite the organic deposits at AE and AF being located above the water table. The low concentrations can also be seen extending in a band eastwards across the centre of the historic town, with low levels at location P (although this water is located at some depth below the cultural horizon) and at locations Q and V. Generally the highest concentrations are recorded in the south of the study area, although elevated concentrations of dissolved oxygen are also being recorded at location N which has generally recorded evidence of good preservation conditions.

Redox Potential

Figure 5
Redox v. pH graph – 2015
 (Calibrated to SHE)

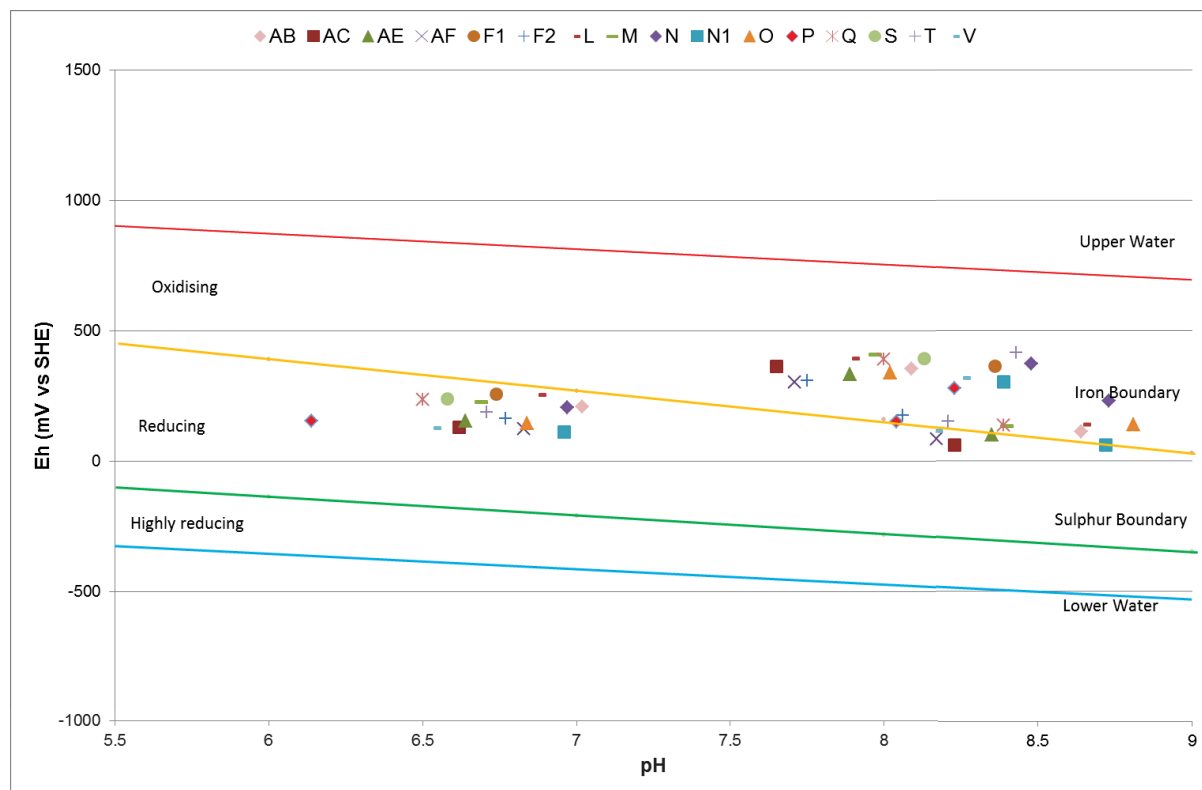


Figure 5 above shows a redox/pH diagram which indicates that the SHE calibrated redox levels are located close to the iron reduction boundary at most of the monitoring points around Nantwich. There is evidence to suggest the reducing and oxidising conditions fluctuate with seasonal variations (see Figures 6 and 7). (The diagram does not include the faulty data from the defective multi-probe taken in February 2015).

Overall, the most reducing conditions (locations AC, AE, AF, AG and P) correspond with the lowest levels of dissolved oxygen located close to the River Weaver and in a band eastwards across the central part of the monitored area. These results are supported by indications of bacterial activity including methane generation, nitrate reduction and sulphate reduction (see Appendix C) recorded in borehole locations AE and AF.

Figure 6
Seasonal Redox Fluctuations

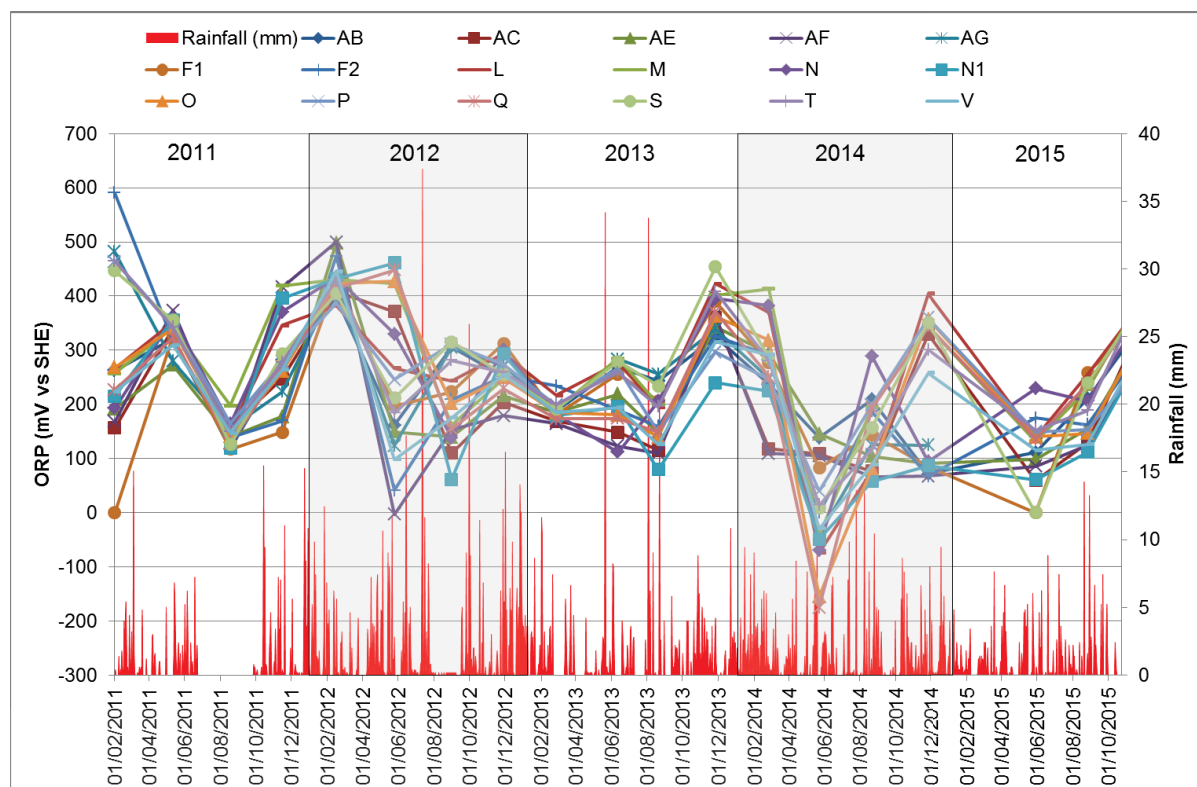


Figure 6 above shows the seasonal fluctuations in redox values between January 2011 and October 2015. The data suggests that there is a general increase in oxidation potential over the winter period when effective rainfall causes an influx of oxygenated water into the ground. This theory is supported by the anomalous readings in spring/summer 2012 which coincide with the un-seasonally high rainfall over that period. The lower redox values recorded in the winter of 2012 to 2013 may be a result of the monitoring data collection occurring before the impact of sustained rainfall 1/12/12, and not again until 1/2/13, and it is possible that redox values may have peaked in December 2012 or January 2013.

Conductivity

The results of the electrical conductivity monitoring also follow the pattern of the redox and dissolved oxygen results, with the highest conductivity values also recorded at boreholes AE, AF and AG in the vicinity of the River Weaver. Conductivity measurements provide a reliably accurate idea of the source of the water, suggesting that the groundwater in this area is mixed with salt-rich groundwater from natural brine runs. Rainwater probably has a negligible influence. These results complement the geochemical analyses that indicate the presence of sodium and chlorides.

pH

Overall the groundwater samples are near neutral or mildly acidic. However, the pH probe malfunctioned during the February 2015 monitoring round, and this may have influenced the very low redox values recorded during this period.

3.1.3 Groundwater Geochemical Laboratory Analysis

Having established the baseline groundwater chemistry in 2007, SLR has collected groundwater samples on an annual basis from the fifteen separate monitoring points located across Nantwich (5 from Preservation Zone 1 and the remainder in Zone 2) and completed a suite of laboratory tests to record changes in the geochemistry of the groundwater over the monitoring period. Sampling was undertaken during each February between 2011 and 2015 using a peristaltic low flow pump and each dipwell was purged of stagnant water until the water quality parameters stabilised. Samples were despatched to Jones Environmental Forensics of Deeside for analysis.

The results of the chemical analyses undertaken on the collected samples of groundwater are presented in Appendix C and key dissolved groundwater results are summarised in Table 2.

Table 2
Geochemical Laboratory Analysis - Groundwater

BH	Date	Fe	Mn	CaCO ₃	NO ₃	SO ₄	PO ₄	S ²⁻	CH ₄	Na	C	N	pH
AB	20/11/2007	MDL	0.028	530	26	77	10	MDL	MDL	-	-	-	-
	01/02/2011	MDL	0.007	430	25	45	9.9	MDL	MDL	65	91	0.03	8.1
	16/02/2012	MDL	MDL	490	8.5	56	10	MDL	0.006	66	96	MDL	8.4
	27/02/2013	MDL	MDL	500	100	190	9.5	MDL	0.007	110	270	MDL	7.3
	26/02/2014	MDL	MDL	450	53	95	9.4	MDL	MDL	110	210	MDL	7.4
	23/02/2015	MDL	MDL	450	89	96	9.8	MDL	MDL	110	170	MDL	7.5
AC	20/11/2007	MDL	3.4	480	MDL	180	MDL	MDL	0.051	-	-	-	-
	01/02/2011	14	3.5	480	5.4	170	MDL	MDL	MDL	510	1100	1.5	7.4
	16/02/2012	MDL	2.1	430	0.4	190	MDL	MDL	0.36	2100	2800	2.6	8
	27/02/2013	9.4	3	530	MDL	170	MDL	MDL	MDL	580	1100	1.9	6.8
	26/02/2014	19	3.2	530	0.75	170	MDL	MDL	MDL	510	920	3	6.9
	23/02/2015	17	2.4	520	0.6	180	4.3	MDL	MDL	470	780	1.3	7.3
AE	01/02/2011	0.25	1.7	710	MDL	62	12	MDL	2	150	230	21	7.8
	17/02/2012	0.011	1.2	850	0.9	9.9	11	MDL	5.3	200	310	24	8.3
	27/02/2013	MDL	2.1	830	1.4	180	9.9	MDL	MDL	180	520	12	7
	26/02/2014	0.18	3.9	840	1.7	320	9.2	MDL	MDL	270	790	13	7.1
	23/02/2015	0.78	0.85	660	6.2	69	10	MDL	MDL	180	370	14	7.2
AF	01/02/2011	0.1	0.92	870	MDL	12	11	MDL	3.4	470	790	46	7.7
	17/02/2012	0.021	0.92	940	MDL	12	8.6	MDL	3.8	410	590	50	8
	27/02/2013	0.03	1.1	860	MDL	8.1	14	MDL	4	400	680	40	7.1
	26/02/2014	5.8	1.7	830	0.8	6.3	12	MDL	0.11	350	600	41	7.3
	23/02/2015	5.4	1.1	820	2.3	0.94	15	MDL	1	420	730	41	7.3
AG	01/02/2011	0.24	0.54	550	MDL	310	MDL	MDL	0.009	600	1500	5.3	7.5
	17/02/2012	0.021	0.83	560	2.5	270	0.19	MDL	0.012	1700	3000	1.5	7.6
	27/02/2013	0.02	1.2	640	0.8	260	0.74	MDL	MDL	1600	3900	1.4	6.8
	26/02/2014	0.037	0.044	140	2	31	MDL	MDL	MDL	390	490	0.11	7.7
F2	01/02/2011	MDL	1.4	480	MDL	220	0.82	MDL	MDL	180	330	4.7	7.7

BH	Date	Fe	Mn	CaCO ₃	NO ₃	SO ₄	PO ₄	S ²⁻	CH ₄	Na	C	N	pH
BH	17/02/2012	0.058	0.45	310	MDL	38	14	MDL	0.94	91	100	1.9	8.4
	26/02/2013	MDL	0.77	300	0.3	49	9.8	MDL	MDL	140	250	2.2	7
	26/02/2014	0.04	0.35	280	1.7	44	6.3	MDL	MDL	91	150	1.6	7.3
	23/02/2015	MDL	0.73	320	9.3	360	3.2	MDL	0.003	120	230	2	7.2
	20/11/2007	MDL	0.3	330	66	170	0.78	MDL	0.003	-	-	-	-
L	01/02/2011	MDL	0.64	480	9.7	150	0.89	MDL	0.032	150	300	22	7.9
	16/02/2012	0.027	0.5	460	6.4	120	1.4	MDL	MDL	140	220	21	8.3
	27/02/2013	MDL	0.033	110	12	49	6.5	MDL	0.012	30	29	5.5	6.8
	26/02/2014	MDL	0.03	88	22	41	6.3	MDL	MDL	21	27	0.54	7
	23/02/2015	0.07	0.74	390	0.8	98	1.8	MDL	0.047	170	200	17	7.5
M	20/11/2007	MDL	0.53	310	0.8	41	13	MDL	0.008	-	-	-	-
	01/02/2011	MDL	0.15	350	3.1	100	7.8	MDL	MDL	200	370	0.23	7.5
	17/02/2012	0.03	0.24	390	6	130	7.1	MDL	MDL	210	300	0.09	8.3
	28/02/2013	MDL	0.18	310	11	97	5.7	MDL	MDL	170	290	0.04	7
	26/02/2014	0.037	0.12	350	13	110	2.5	MDL	MDL	150	240	0.033	7.2
N	23/02/2015	MDL	0.22	320	14	110	7.6	MDL	MDL	180	340	MDL	7.2
	20/11/2007	MDL	0.61	320	8	58	1.3	MDL	2.9	-	-	-	-
	01/02/2011	0.07	0.48	470	1.2	86	0.41	MDL	8.1	110	180	4.5	7.9
	17/02/2012	0.17	0.6	470	1.5	75	0.12	MDL	6.8	64	79	3.5	8.3
	N1	26/02/2013	MDL	1.1	390	MDL	69	0.48	MDL	2.8	22	28	1.2
25/02/2014		0.84	0.92	400	0.8	51	0.55	MDL	2.2	24	29	1.3	7.5
23/02/2015		0.39	0.57	430	4.4	86	1.3	MDL	2.3	25	28	1.5	7.5
O	20/11/2007	MDL	2	600	2	38	2.4	MDL	2.2	-	-	-	-
	01/02/2011	MDL	1.4	590	3.4	42	1.2	MDL	MDL	140	200	10	7.8
	16/02/2012	0.023	1.2	450	0.3	28	5	MDL	MDL	73	76	8.1	8.4
	28/02/2013	MDL	1.3	440	MDL	30	3	MDL	MDL	120	150	9.6	7.1
	26/02/2014	0.029	0.75	260	2.2	32	4.6	MDL	MDL	29	18	1.6	7.5
P	23/02/2015	0.66	1.3	330	15	12	8.8	MDL	MDL	46	39	2.7	7.4
	20/11/2007	MDL	6.8	270	27	560	22	MDL	0.004	-	-	-	-
	01/02/2011	MDL	1.3	250	17	470	16	MDL	0.007	15	17	0.12	7
	16/02/2012	MDL	2.3	240	32	880	15	MDL	MDL	23	23	0.4	8.1
	28/02/2013	0.03	3.7	250	9.6	1100	7.9	MDL	MDL	21	27	0.22	6.3
Q	26/02/2014	0.37	0.47	230	11	520	7.8	MDL	MDL	17	22	0.15	6.7
	23/02/2015	MDL	0.43	200	18	310	16	MDL	MDL	13	15	0.04	6.7
	20/11/2007	MDL	1.4	390	9.3	26	13	MDL	0.001	-	-	-	-
	01/02/2011	MDL	0.15	280	6	59	6	MDL	MDL	660	1100	0.15	7.5
	16/02/2012	0.013	0.034	370	24	58	11	MDL	MDL	550	750	MDL	8.3
S	27/02/2013	MDL	0.058	230	12	53	6.7	MDL	MDL	880	1400	0.15	6.9
	25/02/2014	0.27	0.026	280	8.4	25	11	MDL	0.0056	250	290	0.04	7
	23/02/2015	0.12	0.017	310	29	21	14	MDL	0.005	200	240	0.03	7.2
S	20/11/2007	MDL	0.25	260	5.3	68	4.9	MDL	0.005	-	-	-	-
	01/02/2011	MDL	0.21	340	2	56	7.7	MDL	0.017	100	200	0.29	7.3
	16/02/2012	0.016	0.31	310	16	72	5	MDL	0.005	310	580	0.17	8.1
	28/02/2013	MDL	0.31	370	9.4	80	6.2	MDL	0.011	260	430	0.29	6.9

BH	Date	Fe	Mn	CaCO ₃	NO ₃	SO ₄	PO ₄	S ²⁻	CH ₄	Na	C	N	pH
	25/02/2014	MDL	0.2	330	15	70	4.7	MDL	MDL	240	430	0.41	7.1
	23/02/2015	MDL	0.16	350	6.6	65	5.6	MDL	MDL	200	270	0.07	7.3
	20/11/2007	MDL	1.6	430	MDL	15	23	MDL	2.6	-	-	-	-
	01/02/2011	MDL	0.79	300	1.8	20	12	MDL	3	31	69	4	7.4
T	16/02/2012	0.084	1.1	380	MDL	30	14	MDL	2	45	76	6	8.2
	28/02/2013	MDL	0.5	290	6.3	110	9.8	MDL	MDL	35	52	2.7	6.9
	25/02/2014	0.077	0.084	220	13	45	5.6	MDL	MDL	34	62	0.18	7.1
	23/02/2015	0.1	0.12	230	8	30	5.4	MDL	MDL	31	42	0.52	7.3
	20/11/2007	MDL	2.6	170	0.5	86	0.11	MDL	0.039	-	-	-	-
	01/02/2011	MDL	4	78	MDL	400	MDL	MDL	0.094	18	16	1.2	6.4
V	16/02/2012	1.9	8.6	MDL	MDL	970	MDL	MDL	0.026	38	35	1.8	3.4
	27/02/2013	15	1.2	66	MDL	130	18	MDL	0.006	27	22	0.18	5.8
	25/02/2014	0.83	0.31	86	0.97	66	19	MDL	MDL	29	36	0.093	6.2
	23/02/2015	29	5	110	0.4	420	0.14	MDL	0.01	28	25	1.5	6.5

All concentrations are measured in mg/l rounded to 2 significant figures, except pH.

MDL – Below minimum laboratory detection limits

Fe and Mn are total amounts, as the laboratories would not undertake analysis for ferric iron, ferrous iron, or manganese II during the period 2011 – 2013 inclusive

The results of the geochemical groundwater analysis show that most samples had near-neutral pH values.

The results indicated that the most reducing conditions were recorded in BH V, which recorded the highest concentrations of sulphate (420mg/l), manganese II (8mg/l), ferric iron (3mg/l) and ferrous iron (26mg/l) in conjunction with the lowest levels of nitrate (0.4mg/l) (see Appendix C). Indications of reducing conditions were also recorded in F2, L and N1 with elevated concentrations of sulphate, manganese and dissolved methane.

The results also indicate that the reducing conditions appear to remain in the vicinity of the River Weaver, with the samples from AC, AE, AF and AG recording elevated concentrations of sulphate, dissolved manganese, dissolved iron, ferrous iron and ammoniacal nitrogen combined with reduced nitrate concentrations.

BH P continues to record high concentrations of sulphate (310 mg/l) (although the concentrations have reduced significantly since 2014), and conditions would be considered highly reducing. The samples were collected from significant depth below the cultural horizon, however, and BH P was described as being in active decay when assessed in 2007.

The remaining boreholes generally recorded low concentrations of dissolved iron and manganese and higher concentrations of nitrates. All of the samples recorded elevated concentrations of sodium and chloride, which probably derives from halite deposits and historic salt working in the area.

4.0 RESULTS OF GROUND GAS MONITORING

Quarterly ground gas monitoring was undertaken in each of the installed eighteen dipwells using a Geotechnical Instruments GA2000 gas analyser. The Gas Analyser is used to measure the concentration of hydrogen sulphide, methane, oxygen, carbon monoxide and dioxide through the gas taps which have been fitted to all dipwells. Methane and hydrogen sulphide are indicators of anaerobic conditions, and even though methane can be generated from the decay of organic debris, the occurrence of this gas indicates reducing conditions with very slow decay rates. Oxygen, carbon monoxide and carbon dioxide are indicators of oxygen-rich deposits.

The results of the ground gas monitoring are shown in Appendix B.

The results of the ground gas monitoring indicate that significant concentrations of methane were only recorded in BH AC adjacent to the river, which also correspond with depleted oxygen levels and other indicators of reducing conditions. The highest concentrations of carbon dioxide were recorded in BH AE (14.8%), although elevated concentrations of carbon dioxide were widespread across the study area.

Trace concentrations of hydrogen sulphide and carbon monoxide were also recorded in five wells, but these are not considered to be significant as they are just above the detection limits of the gas analyser.

5.0 GROUNDWATER FLUCTUATION AND PERMEABILITY COMPARISON

In order to assess the relationship between permeability and fluctuations in groundwater level following periods of rainfall, additional data logging transducers were installed into BH O and BH T. The results of this comparison are shown in Figure 7 and Table 3 below.

Figure 7
Comparison between Groundwater Fluctuation and Permeability

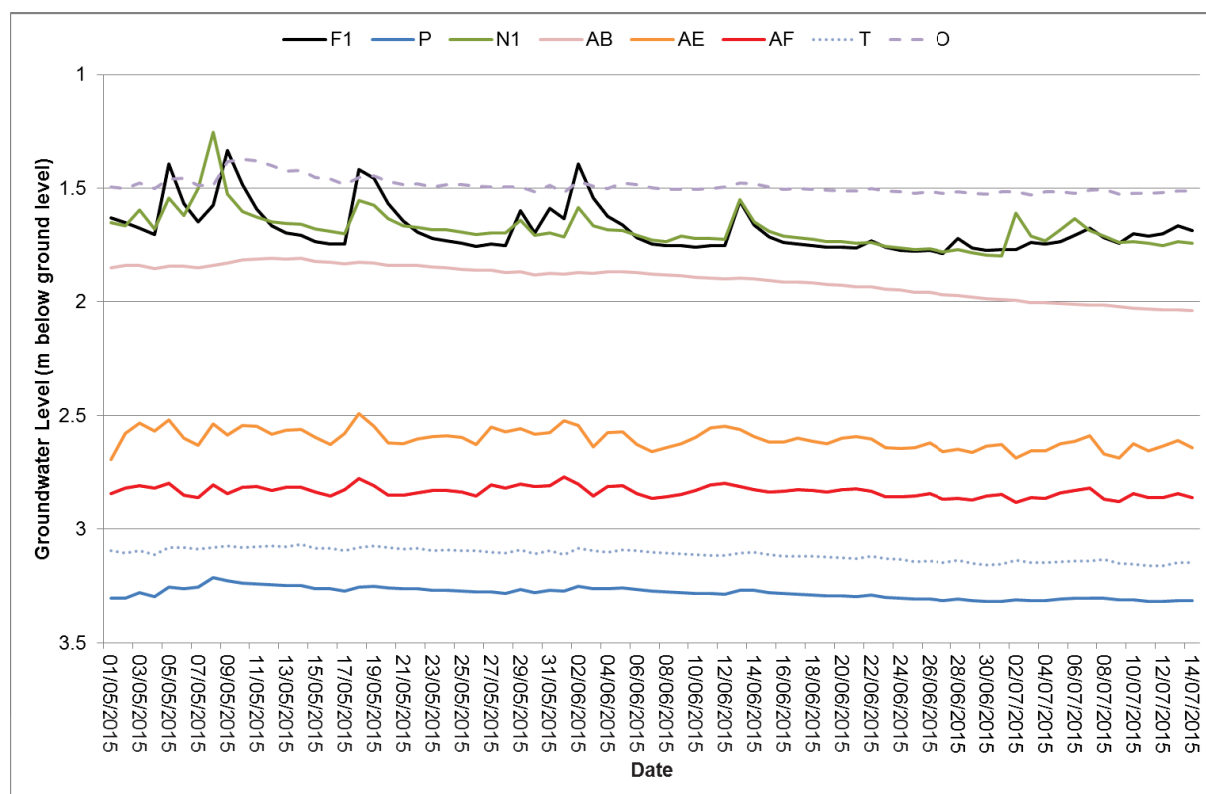


Table 3
Permeability Results

BH Ref.	Permeability (m/day)	Soil Type
AB	0.5	Silty SAND & CLAY
AC	0.1	Clayey SAND
AE	0.3	Very sandy SILT
AF	0.2	Sandy SILT
AG	0.01	CLAY
F2	0.1	Sandy SILT & CLAY
N	0.02	SILT & CLAY
O	0.001	Clayey SAND & CLAY
P	2	SAND
Q	0.7	Silty SAND
S	3	SAND
T	6	SAND
V	4	Slightly clayey SAND

The results indicate that the groundwater fluctuations observed in BH T are similar to those observed in BH P, and the behaviour of BH O was most similar to BH AB. However, neither BH T or BH O exhibited the high levels of fluctuation observed in boreholes F1, N1, AE or AF. Consequently there does not appear to be a direct relationship between permeability and groundwater fluctuation as the trend observed in BH O does not match the fluctuations observed in other low permeability locations. However, it may be possible that the groundwater fluctuations may be influenced by preferential drainage routes and surface runoff as F1, N1, AE or AF are all located in car parks or hard surfaced areas, whereas O, P, T and AB are all located on or close to areas without hard surfacing. For example drainage within the car parks may be via soakaways, or leakage could occur around the drains contributing to sudden pulses from the surface run-off.

It is also interesting to note that F1 and N1 show very similar results, but are in very different spatial and topographic locations. These results and the potential effect of hard surfacing, need further analysis to see how much significance the data has.

6.0 METHODOLOGICAL IMPROVEMENTS

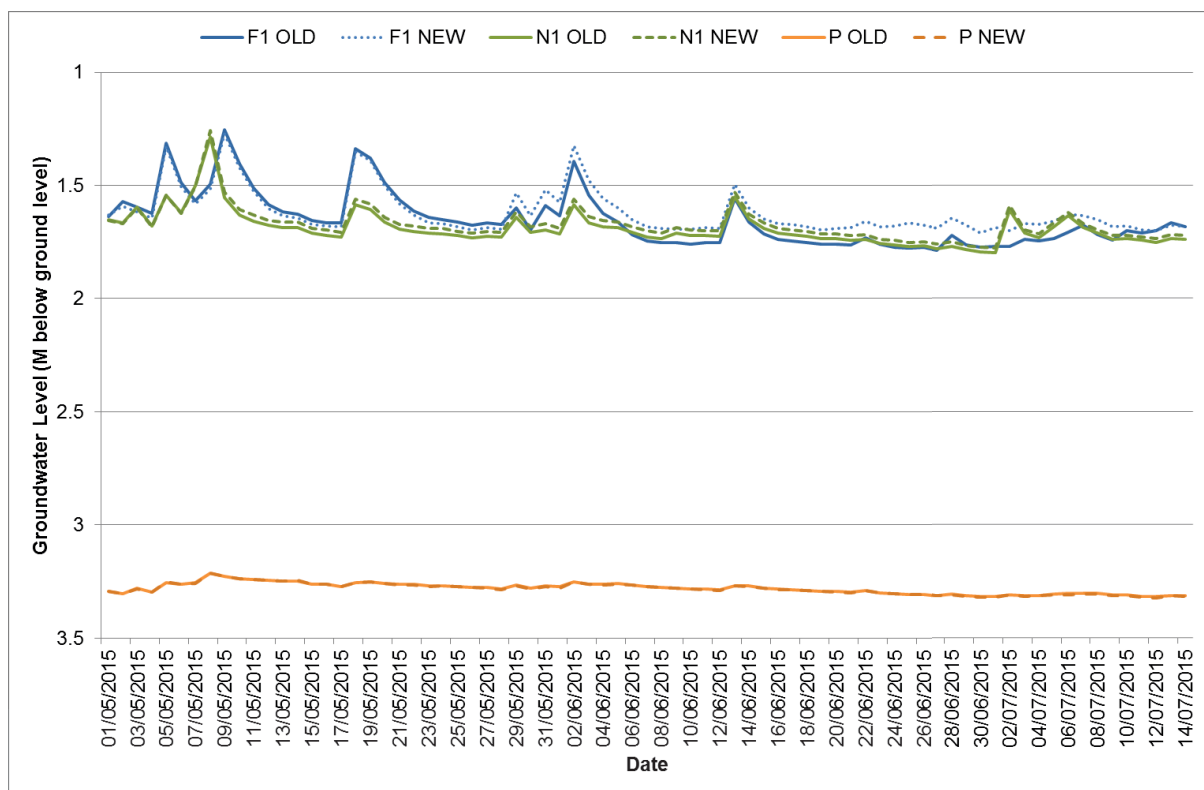
Since the start of the regular monitoring programme in February 2011 several improvements have been implemented to improve the reliability and frequency of the data collection process.

6.1 Modifications to Network of Transducer Dataloggers

During 2014 it was noticed that some of the groundwater level dataloggers were becoming unreliable. In order to reduce the number of errors observed in the data set additional dataloggers were installed in the multilevel monitoring points (Locations F1, N1 and P), and the number of measurements was increased to four readings per day to provide additional back up data.

The increased measurement frequency enabled the errors to be removed from the data set with additional data set. However, although the additional transducers at N1 and P showed a high degree of correlation with the existing data loggers, up to 10cm of measurement drift was observed in the two units installed at location F1 (see Figure 8 below).

Figure 8
Comparison between Old and New Groundwater Level Dataloggers



6.2 Data Processing Errors

In the previous interim report completed in 2014 it was noticed that the data loggers were recording erratic fluctuations during the period between August and October 2014 (see Figure 9). In order to investigate this further the data was reprocessed using data from a subsequent data download which removed the erratic trends observed during this period, and it was noted that the erratic fluctuations were caused by manual errors during data processing. The reprocessed data set is shown in Figure 10 below.

Figure 9
Groundwater Level and Rainfall Data Graph – 2014 (with Data Errors)

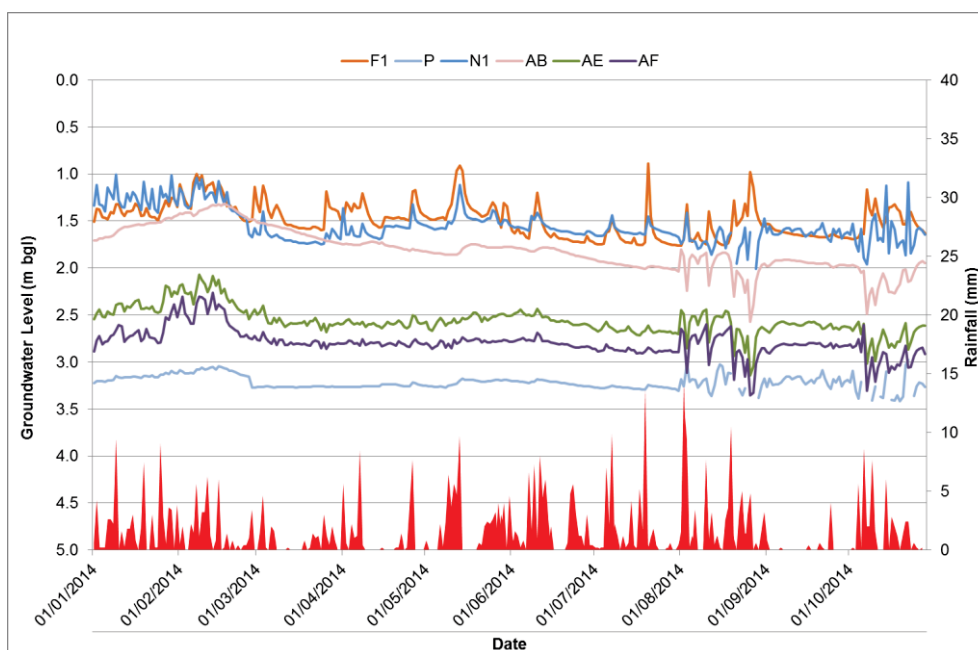
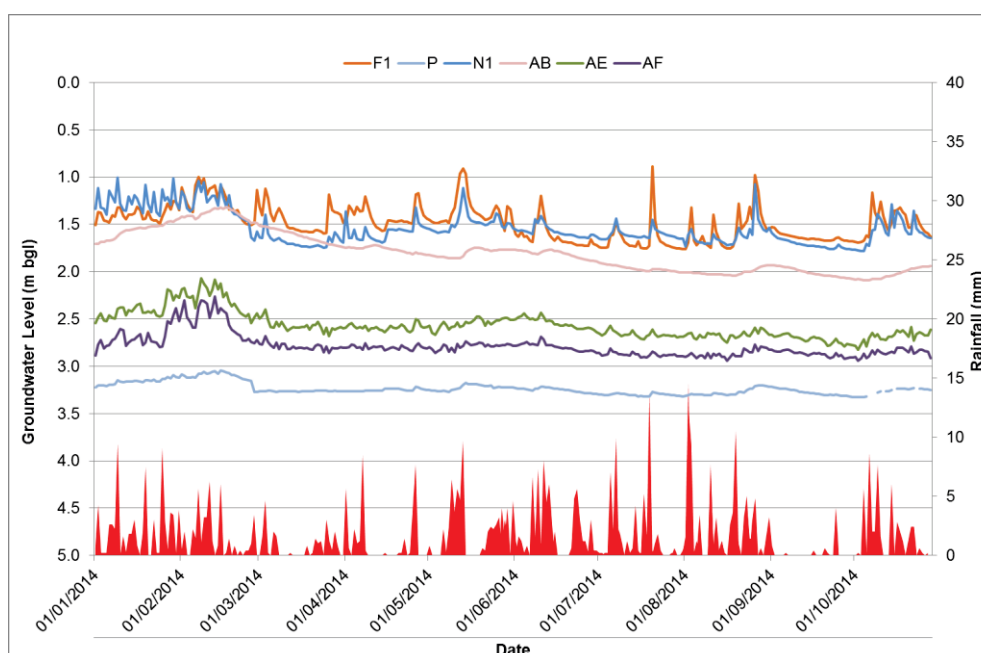


Figure 10
Groundwater Level and Rainfall Data Graph – 2014 (without Data Errors)

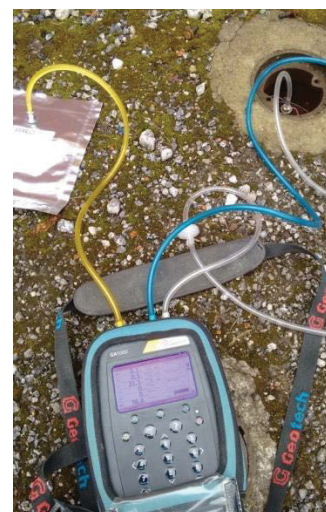
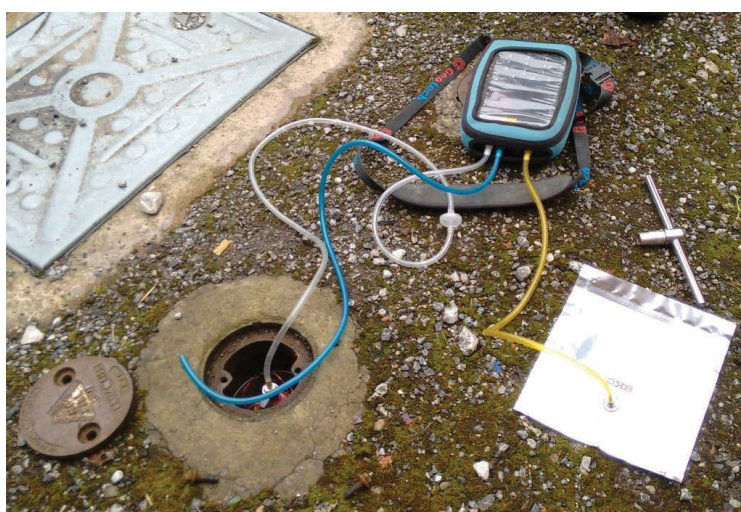
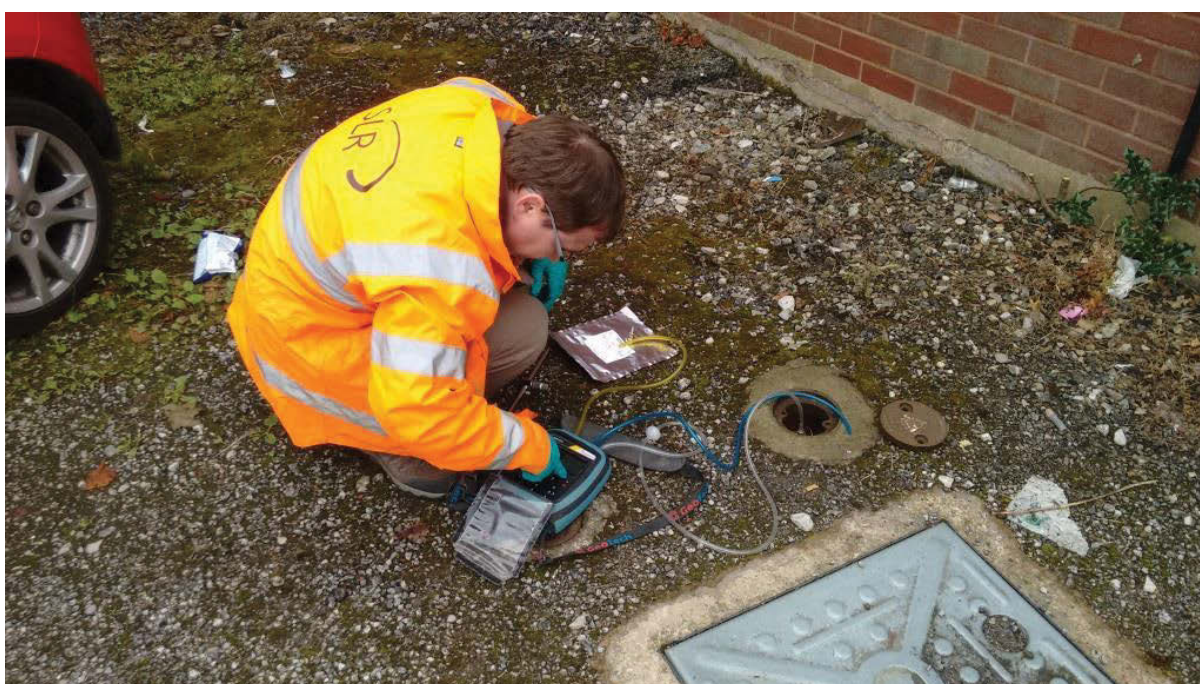


6.3 Gas sampling for C14 dating

Liaison with Historic England's scientific dating team and with SUERC identified an acceptable methodology and equipment for sampling gas, and rapidly processing these samples to extract a radiocarbon determination for the potential age of the origin of the gas. A special round of gas monitoring was conducted when barometric pressures were low enough (below 1000mb) on the 16th September 2015, and two dipwells displayed sufficiently high levels of methane (AC) and carbon-dioxide (AE) for sampling purposes.

Sampling was undertaken by pumping through gas taps which seal the dipwells, using a GA5000. The gas was then stored in a 1 litre Tedlar bag, and despatched to SUERC's laboratories next day. The results of this exercise have not yet been received from SUERC.

Figure 11
Gas sampling for C14



7.0 CONCLUSIONS

This interim report enhances the preliminary findings from previous years, and is helping to establish a better understanding of the burial conditions and the state of continued preservation of organic remains within Nantwich. It has also identified enhancements and alterations to the methodology through a rigorous practical application of the techniques and equipment originally designed for the monitoring programme. Such details will assist future projects for effective monitoring of similar waterlogged deposits in other urban centres.

The previous interim reports combined with this report, and also the academic papers presented at the 2011 PARIS4 and 2015 PARIS5 conferences, and the Groundwater and Cultural Heritage conference in 2013, provide a good foundation on which to base questions for further analysis before writing the final report.

The potential exists for further data collection to continue after the end of this phase of monitoring, by leaving the transducer in situ. In three years after the end of Phase 2 a data download could be undertaken, which would facilitate analysis of how beneficial a simple form of automatic monitoring might be for such waterlogged deposits. By comparing the data over this period with the robust comparative corpus of data gathered over the past five years, it would be possible to assess the validity of a simplified and more economical approach to monitoring.

In addition meetings with spatial planners and related disciplines to spread awareness of the threats and significance of the Nantwich archaeological deposits, and to encourage the incorporation of greater use of sustainable urban drainage to percolate water through these deposits (as undertaken at the World Heritage Site of Bryggen) is also recommended.

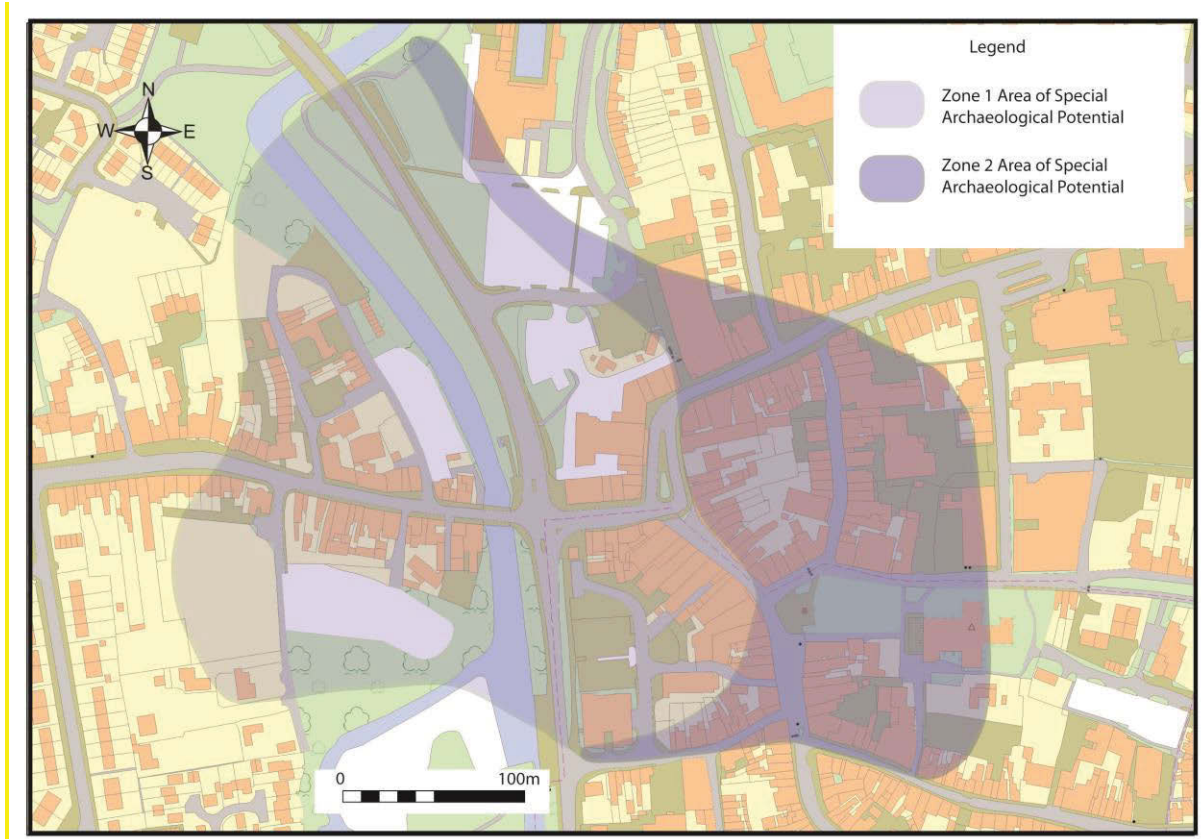
8.0 CLOSURE

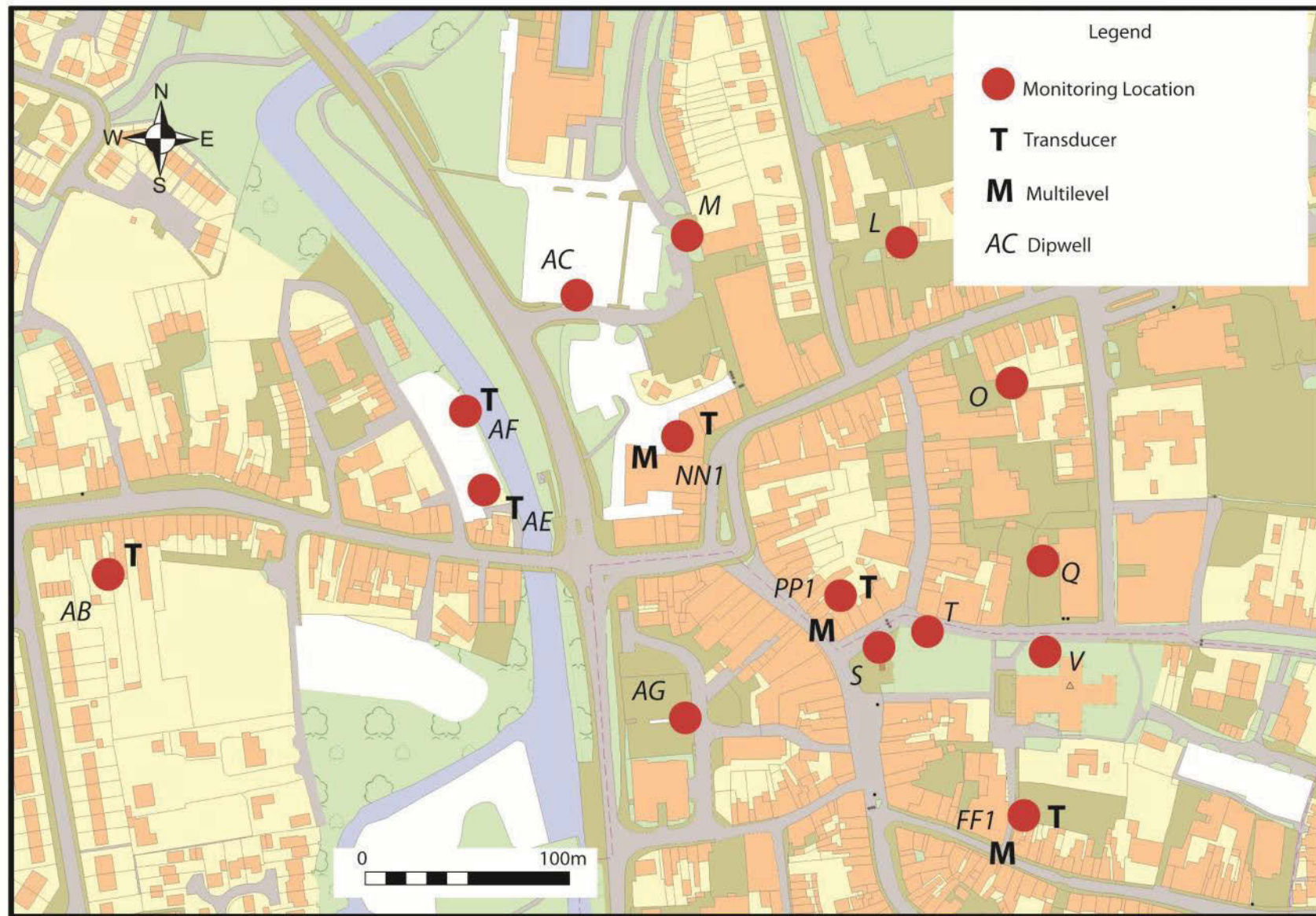
This report has been prepared by SLR Consulting Limited with all reasonable skill, care and diligence, and taking account of the manpower and resources devoted to it by agreement with the client. Information reported herein is based on the interpretation of data collected and has been accepted in good faith as being accurate and valid.

This report is for the exclusive use of Cheshire East Council and English Heritage; no warranties or guarantees are expressed or should be inferred by any third parties. This report may not be relied upon by other parties without written consent from SLR.

SLR disclaims any responsibility to the client and others in respect of any matters outside the agreed scope of the work.

Figure 12
Preservation Zones





Location	Easting	Northing	Surface Elevation (mOD)	Groundwater Depth (m)	Groundwater Elevation (mOD)	Date	Dissolved Oxygen (mg/l)	REDOX (mV SHE)	pH	Conductivity (µS/CM)	Temperature (°C)
AB	364740	352370	37.93	1.754	36.18	23/02/2015	0.01	-137	7.5	1273	5.01
AB	364740	352370	37.93	1.859	36.07	29/05/2015	1.81	110.9	8.64	833	10.4
AB	364740	352370	37.93	2.164	35.77	26/08/2015	0.38	210	7.02	1350	12.6
AB	364740	352370	37.93	1.929	36.00	02/12/2015	0.99	355.2	8.09	680	11.9
AC	364963	352517	36.42	2.695	33.73	23/02/2015	0.17	-244.7	7.3	2785.0	-
AC	364963	352517	36.42	2.754	33.67	29/05/2015	0.12	59.5	8.23	2339	11.9
AC	364963	352517	36.42	2.808	33.61	26/08/2015	3.45	128.9	6.62	3061	15
AC	364963	352517	36.42	2.498	33.92	02/12/2015	0.69	362.2	7.65	1842	14.2
AE	364917.89	352428.05	35.19	2.5	32.69	23/02/2015	-	-213.5	7.2	2045	-
AE	364917.89	352428.05	35.19	2.547	32.64	29/05/2015	0.29	98.1	8.35	1593	12.4
AE	364917.89	352428.05	35.19	2.676	32.51	26/08/2015	0.64	154.7	6.64	1857	14.6
AE	364917.89	352428.05	35.19	2.556	32.63	02/12/2015	0.17	332.9	7.89	1139	14.8
AF	364899.12	352463.45	34.89	2.815	32.08	23/02/2015	-	-215.2	7.3	2856.0	6.84
AF	364899.12	352463.45	34.89	2.762	32.13	29/05/2015	0.26	85.6	8.17	2166	11.9
AF	364899.12	352463.45	34.89	2.887	32.00	26/08/2015	0.39	123.8	6.83	2660	14.9
AF	364899.12	352463.45	34.89	2.788	32.10	02/12/2015	0.14	303.1	7.71	1520	14.6
AG	365007.32	352313.39	37.03	1.365	35.66	23/02/2015	-	-85.9	7.2	13098	-
AG	365007.32	352313.39	37.03	Destroyed	-	29/05/2015	-	-	-	-	-
AG	365007.32	352313.39	37.03	Destroyed	-	26/08/2015	-	-	-	-	-
AG	365007.32	352313.39	37.03	Destroyed	-	02/12/2015	-	-	-	-	-
F1	365188.88	352269.23	39.6888	1.307	38.38	23/02/2015	-	-90.9	-	1772	-
F1	365188.88	352269.23	39.69	1.6	38.09	29/05/2015	-	-	-	-	-
F1	365188.88	352269.23	39.69	1.628	38.06	26/08/2015	0.68	258.1	6.74	2323	14.9
F1	365188.88	352269.23	39.69	1.42	38.27	02/12/2015	2.79	363.5	8.36	294.2	12
F2	365188.88	352269.23	39.69	1.592	38.10	23/02/2015	-	-48.4	7.2	1756	-
F2	365188.88	352269.23	39.69	1.582	38.11	29/05/2015	1.98	174.7	8.06	1171	12.9
F2	365188.88	352269.23	39.69	1.605	38.09	26/08/2015	0.23	162.2	6.77	662	16.3
F2	365188.88	352269.23	39.69	1.575	38.12	02/12/2015	0.25	309.4	7.75	1231	13.3
L	365128	352544	38.71	2.219	36.49	23/02/2015	-	-77.3	7.5	1488	-
L	365128	352544	38.71	2.155	36.56	29/05/2015	0.87	139.2	8.65	707	10.5
L	365128	352544	38.71	2.245	36.47	26/08/2015	0.68	254.4	6.88	1762	13.6
L	365128	352544	38.71	2.103	36.61	02/12/2015	0.54	394.5	7.9	787	12.3
M	365015	352549	37.81	1.495	36.32	23/02/2015	3.00	-161.6	7.2	1313	3.51
M	365015	352549	37.81	1.482	36.33	29/05/2015	1.56	131.6	8.4	1077	11.1
M	365015	352549	37.81	1.485	36.33	26/08/2015	2.12	227.5	6.69	1479	14
M	365015	352549	37.81	1.415	36.40	02/12/2015	0.81	407.8	7.97	1001	12.5

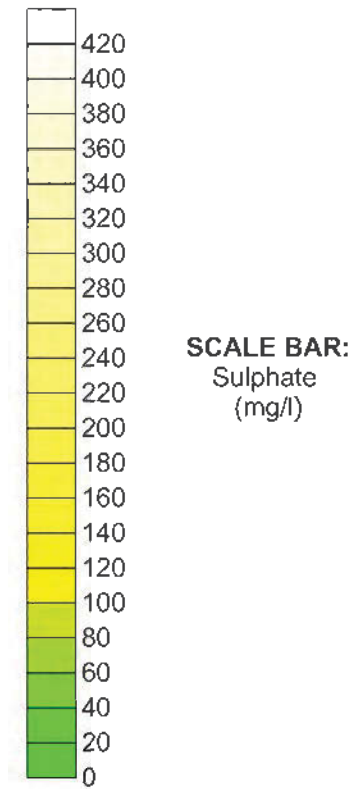
Location	Easting	Northing	Surface Elevation (mOD)	Groundwater Depth (m)	Groundwater Elevation (mOD)	Date	Dissolved Oxygen (mg/l)	REDOX (mV SHE)	pH	Conductivity (µS/CM)	Temperature (°C)
N	365016	352449	39.16	-	-	23/02/2015	0.83	-102.8	7.5	809	7.99
N	365016	352449	39.17	1.48	37.69	29/05/2015	1.53	229.4	8.73	662	11.6
N	365016	352449	39.17	1.491	37.67	26/08/2015	0.14	206	6.97	793	14.5
N	365016	352449	39.17	1.423	37.74	02/12/2015	3.21	373.5	8.48	280.3	13.2
N1	365016	352449	39.16	1.545	37.61	23/02/2015	0.07	-157.6	-	798	-
N1	365016	352449	39.16	1.615	37.64	29/05/2015	0.15	60.4	8.72	671	12
N1	365016	352449	39.16	1.547	37.61	26/08/2015	0.41	111.5	6.96	852	15
N1	365016	352449	39.16	1.485	37.67	02/12/2015	0.22	303.1	8.39	405.9	12.5
O	365184	352470	39.64	1.465	38.18	23/02/2015	-	-161	7.4	700	-
O	365184	352470	39.64	1.48	38.16	29/05/2015	0.9	139.5	8.81	429	12.2
O	365184	352470	39.64	1.39	38.25	26/08/2015	1.97	146.1	6.84	1245	14.7
O	365184	352470	39.64	1.334	38.31	02/12/2015	0.19	338	8.02	682	13.3
P	365098	352374	39.93	3.275	36.65	23/02/2015	0.94	-75.5	6.7	848	6.70
P	365098	352374	39.93	3.264	36.76	29/05/2015	0.35	149.6	8.04	1559	12.1
P	365098	352374	39.93	3.293	36.63	26/08/2015	1.66	152.9	6.14	1321	14.3
P	365098	352374	39.93	3.19	36.74	02/12/2015	0.19	279.9	8.23	448.8	14.2
Q	365196	352383	39.22	1.770	37.45	23/02/2015	-	-140.9	7.2	1294	-
Q	365196	352383	39.22	1.784	37.43	29/05/2015	0.35	135.6	8.39	1563	13.1
Q	365196	352383	39.22	1.375	37.84	26/08/2015	1.74	237.4	6.5	1297	16.3
Q	365196	352383	39.22	1.675	37.54	02/12/2015	0.36	390	8	717	13.6
S	365119	352343	39.77	3.287	36.48	23/02/2015	-	-	7.3	-	-
S	365119	352343	39.77	Not accessible	-	29/05/2015	-	-	-	-	-
S	365119	352343	39.77	3.231	36.54	26/08/2015	1.1	239.5	6.58	856	14
S	365119	352343	39.77	3.225	36.55	02/12/2015	0.42	393.4	8.13	471.1	13
T	365140	352352	39.50	3.075	36.42	23/02/2015	-	-	7.3	-	-
T	365140	352352	39.50	3.037	36.46	29/05/2015	0.97	152.3	8.21	914	10.5
T	365140	352352	39.50	3.136	36.36	26/08/2015	1.51	188.3	6.71	545	12.2
T	365140	352352	39.50	3.042	36.45	02/12/2015	3.47	416.3	8.43	233.3	11.9
V	365195	352346	39.39	1.816	37.57	23/02/2015	-	-165.3	6.5	799	3.70
V	365195	352346	39.39	2.015	37.38	29/05/2015	0.18	115.4	8.17	1070	10.7
V	365195	352346	39.39	2.081	37.31	26/08/2015	2.03	126	6.54	937	12.8
V	365195	352346	39.39	1.846	37.54	02/12/2015	0.24	317.7	8.26	514	12.4

Location	Easting	Northing	Surface Elevation (mOD)	Groundwater Depth (m)	Hole Base (m)	Date	Flow Rate (l/min)	Atmospheric Pressure (mbar)	Relative Pressure (mbar)	Methane (%)	Carbon Dioxide (%)	Oxygen (%)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
AB	364740	352370	37.93	1.638	3.83	23/01/2015	0.0	1015	0.00	0.4	1.2	21.3	0	0
AB	364740	352370	37.93	1.857	3.83	01/05/2015	0	999	-0.05	0.1	0.6	20.6	0	0
AB	364740	352370	37.93	2.025	3.84	14/07/2015	0.1	1016	-0.03	0	1.5	19.7	0	0
AB	364740	352370	37.93	2.156	3.84	22/10/2015	0	1014	0.03	0	0.7	21.2	0	0
AC	364963	352517	36.42	2.558	4	23/01/2015	0.0	1018	0.05	5.4	3.3	4.1	0	0
AC	364963	352517	36.42	2.840	4.00	01/05/2015	0.1	999	0.03	2	2.9	8.4	0	0
AC	364963	352517	36.42	2.268	4.00	14/07/2015	0.1	1015	0.02	0	0	20.9	0	0
AC	364963	352517	36.42	2.908	3.99	22/10/2015	0	1014	-0.03	5.4	5.6	0.4	0	0
AE	364917.89	352428.05	35.188	2.600	3.93	23/01/2015	0.0	1016	0.03	0.4	9.1	10.9	0	0
AE	364917.89	352428.05	35.188	2.669	3.93	01/05/2015	0.1	999	0.15	0	7.4	13.2	0	1
AE	364917.89	352428.05	35.188	2.636	3.92	14/07/2015	0.1	1016	0.05	0	14.8	4	1	0
AE	364917.89	352428.05	35.188	2.735	3.90	22/10/2015	0.1	1016	0.05	0	8.7	9.9	0	0
AF	364899.12	352463.45	34.89	2.782	4.02	23/01/2015	0.0	1016	0.09	0.4	0.3	21.9	0	0
AF	364899.12	352463.45	34.89	2.844	4.02	01/05/2015	0.1	999	0.07	0	3.9	16.8	0	0
AF	364899.12	352463.45	34.89	2.862	4.05	14/07/2015	0.7	1016	1.32	0	1.7	18.5	0	0
AF	364899.12	352463.45	34.89	2.862	3.80	22/10/2015	0	1014	0.03	0	4.7	14.1	0	0
AG	365007.32	352313.39	37.0298	1.115	3.47	23/01/2015	0.0	1016	0.10	0.8	1.5	18.3	3	0
AG	365007.32	352313.39	37.0298	1.542	3.47	01/05/2015	0.1	999	0.09	0	2.9	17.1	1	0
F1	365188.88	352269.23	39.6888	1.598	1.98	23/01/2015	0.0	1015	-0.09	0.4	1	21.1	0	0
F1	365188.88	352269.23	39.6888	1.634	1.98	01/05/2015	0.1	999	0	0	1.4	19.9	0	0
F1	365188.88	352269.23	39.6888	1.685	1.97	14/07/2015	0.1	1016	0.31	0	4.2	16.2	0	0
F1	365188.88	352269.23	39.6888	1.651	1.96	22/10/2015	0	1015	0.29	0	4.5	13.6	0	0
F2	365188.88	352269.23	39.6918	1.652	3.96	01/05/2015	0.1	999	0	0	1.9	18.8	0	0
F2	365188.88	352269.23	39.6918	1.660	3.79	14/07/2015	0.1	1016	0.12	0	2.8	18.1	0	0
F2	365188.88	352269.23	39.6918	1.660	3.72	22/10/2015	0	1015	-0.09	0	1.5	19.58	0	0
L	365128	352544	38.71	2.170	3.9	23/01/2015	0.1	1018	0.02	0.4	1.4	21.2	0	0
L	365128	352544	38.71	2.251	3.90	01/05/2015	0.1	999	0	0	1.3	19.8	0	0
L	365128	352544	38.71	2.267	3.90	14/07/2015	0	1013	0	0	0	18.8	0	0
L	365128	352544	38.71	2.238	3.88	22/10/2015	0	1013	0.09	0	2.7	18.7	0	0
M	365015	352549	37.81	1.467	3.83	23/01/2015	0.0	1018	-0.07	0.5	0.4	21.6	0	0
M	365015	352549	37.81	1.537	3.83	01/05/2015	0.1	999	0.02	0	2.3	18.9	0	0
M	365015	352549	37.81	1.516	3.81	14/07/2015	0.2	1015	0.09	0	2.3	18.9	0	0
M	365015	352549	37.81	1.551	3.81	22/10/2015	0	1011	-0.1	0	4.1	15	0	0

Location	Easting	Northing	Surface Elevation (mOD)	Groundwater Depth (m)	Hole Base (m)	Date	Flow Rate (l/min)	Atmospheric Pressure (mbar)	Relative Pressure (mbar)	Methane (%)	Carbon Dioxide (%)	Oxygen (%)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
N	365016	352449	39.165	1.555	3.91	23/01/2015	0.0	1018	0.00	0.4	0.2	22.1	0	0
N	365016	352449	39.165	1.649	3.91	01/05/2015	0.1	999	-0.02	0	1	19.2	0	0
N	365016	352449	39.165	1.596	3.91	14/07/2015	0	1015	-0.03	0.1	0.1	20.6	0	1
N	365016	352449	39.165	1.556	3.91	22/10/2015	0.1	1016	-0.03	0	0.6	20.5	0	0
N1	365016	352449	39.155	1.638	2.63	23/01/2015	0.0	1018	-0.05	0.4	1	21.3	0	0
N1	365016	352449	39.155	1.676	2.63	01/05/2015	0.1	999	-0.14	0	5.6	14.6	0	1
N1	365016	352449	39.155	1.735	2.56	14/07/2015	0.1	1015	0.02	0.2	2.8	17.4	0	1
N1	365016	352449	39.155	1.663	2.58	22/10/2015	0.1	1016	-0.05	0	2.6	18.9	0	0
O	365184	352470	39.642	1.439	3.69	23/01/2015	0.0	1017	0.00	0.4	0.5	21.7	0	0
O	365184	352470	39.642	1.495	3.69	01/05/2015	0.2	999	0	0	1.2	20.4	0	0
O	365184	352470	39.642	1.512	3.66	14/07/2015	0.1	1015	0.05	0	0.4	21	0	0
O	365184	352470	39.642	1.483	3.66	22/10/2015	0.1	1013	0.14	0	0.3	20.9	0	0
P	365098	352374	39.925	3.223	3.9	23/01/2015	0.1	1015	0.02	0.4	0.2	21.8	0	0
P	365098	352374	39.925	3.295	3.90	01/05/2015	0.1	999	0.03	0	2.8	18.5	0	0
P	365098	352374	39.925	3.311	3.39	14/07/2015	0	1015	0.24	0	0	21.3	0	0
P	365098	352374	39.925	3.328	3.88	22/10/2015	0	1015	0.07	0	0	20.5	0	0
P1	365098	352374	39.931	Dry	2.03	23/01/2015	0.1	1015	-0.03	0.4	0.2	21.8	0	0
P1	365098	352374	39.931	Dry	2.03	01/05/2015	0.1	999	0.03	0	0.6	20.7	0	0
P1	365098	352374	39.931	DRY	2.05	14/07/2015	0	1015	0.1	0	4.1	10.2	0	0
P1	365098	352374	39.931	DRY	2.04	22/10/2015	0	1015	0.07	0	5.2	15.1	0	0
Q	365196	352383	39.215	1.764	3.55	23/01/2015	0.0	1017	0.02	0.4	4	18.3	0	0
Q	365196	352383	39.215	1.863	3.55	01/05/2015	0.1	999	0.02	0	1.5	20.6	0	0
Q	365196	352383	39.215	1.865	3.54	14/07/2015	0.2	1015	0.09	0	3.8	15.2	0	0
Q	365196	352383	39.215	1.757	3.51	22/10/2015	0.1	1014	0.22	0	2.9	17	0	0
S	365119	352343	39.77	3.226	3.87	23/01/2015	0.0	1017	0.07	0.4	3.9	17.7	0	0
S	365119	352343	39.77	3.329	3.87	01/05/2015	0.1	999	-0.14	0	2.9	18.3	0	0
S	365119	352343	39.77	3.353	3.68	14/07/2015	0	1015	-0.02	0	4.6	15.5	0	0
S	365119	352343	39.77	3.377	2.85	22/10/2015	0.1	1014	0.21	0	6.2	14.3	0	0
T	365140	352352	39.495	3.039	3.88	23/01/2015	0.0	1017	-0.05	0.4	1.9	20.4	0	0
T	365140	352352	39.495	3.100	3.88	01/05/2015	0.1	999	0.02	0	1.9	19.9	0	0
T	365140	352352	39.495	3.140	3.89	14/07/2015	0.1	1016	0.02	0	3	19.2	0	0
T	365140	352352	39.495	3.180	3.90	22/10/2015	0	1015	0.29	0	1.9	19.8	0	0
V	365195	352346	39.39	1.740	3.98	23/01/2015	0.0	1017	0.02	0.4	3.1	19.8	0	0
V	365195	352346	39.39	1.851	3.98	01/05/2015	0.1	999	-0.07	0	1.4	20.4	0	0
V	365195	352346	39.39	2.104	4.00	14/07/2015	0.2	1015	0.15	0	3.2	18.9	0	0
V	365195	352346	39.39	1.994	3.94	22/10/2015	0	1014	-0.03	0	3.3	18.6	0	0

NOTES
 Contains Ordnance Survey Data
 © Crown copyright and database right 2015

LEGEND
 Monitoring Well Location



SLR
 HERMES HOUSE
 HOLSWORTH PARK
 OXON BUSINESS PARK
 SHREWSBURY SY3 5JH
 T: 01743 239250
www.slrconsulting.com

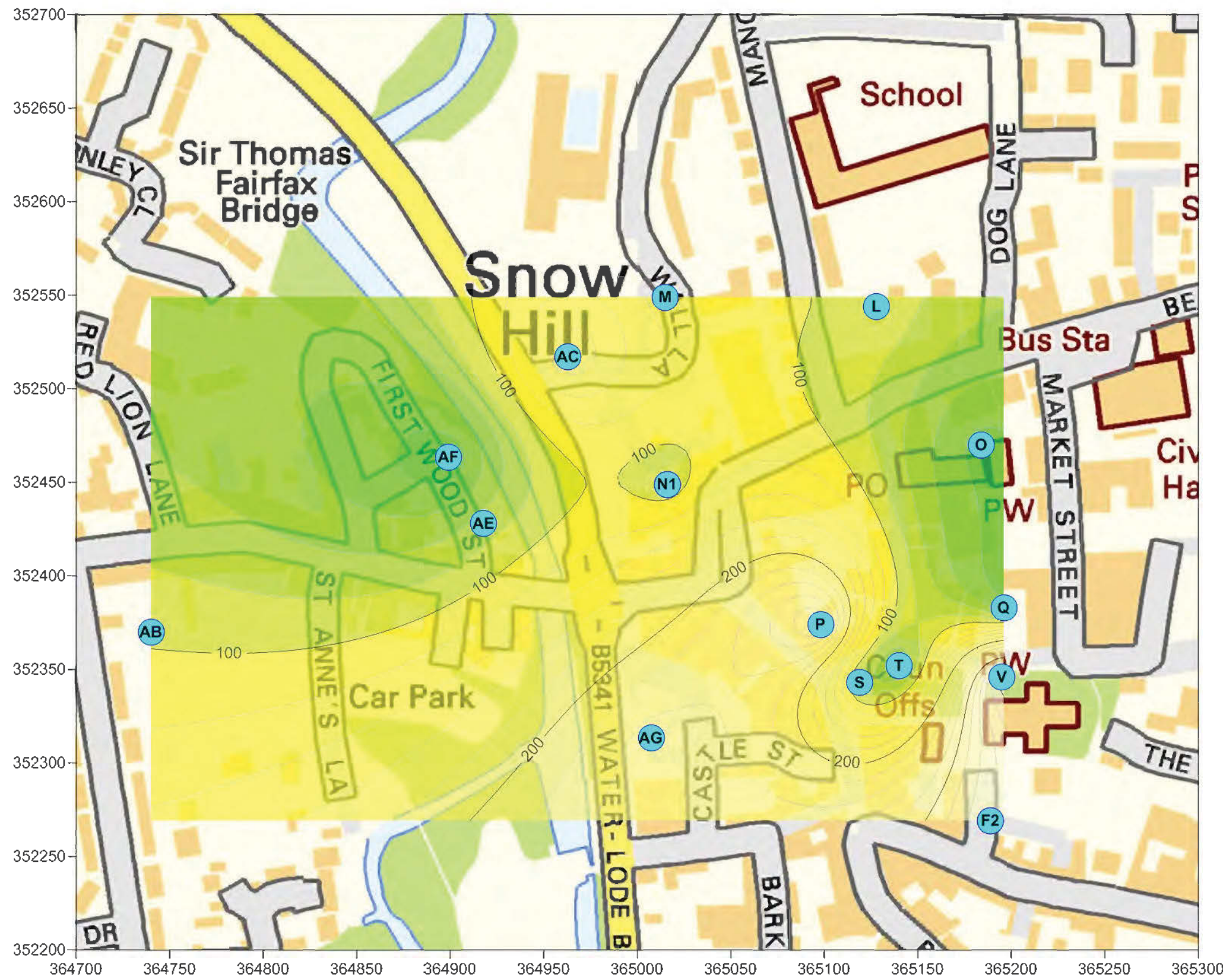
NANTWICH
 WATERLOGGED DEPOSITS

SULPHATE
 (mg/l)

FEBRUARY 2015

DRAWING X.X

Scale 1:25,000 @ A3 Date DECEMBER 2015



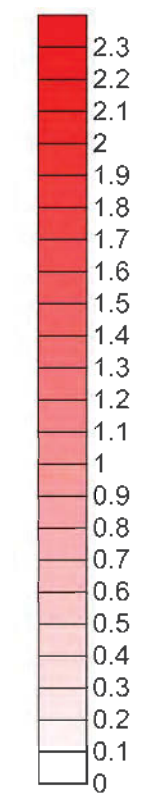
© This drawing and its content are the copyright of SLR Consulting Ltd and may not be reproduced or amended except by prior written permission.
 SLR Consulting Ltd accepts no liability for any amendments made by other persons.

NOTES

Contains Ordnance Survey Data
© Crown copyright and database right 2015

LEGEND

 Monitoring Well Location



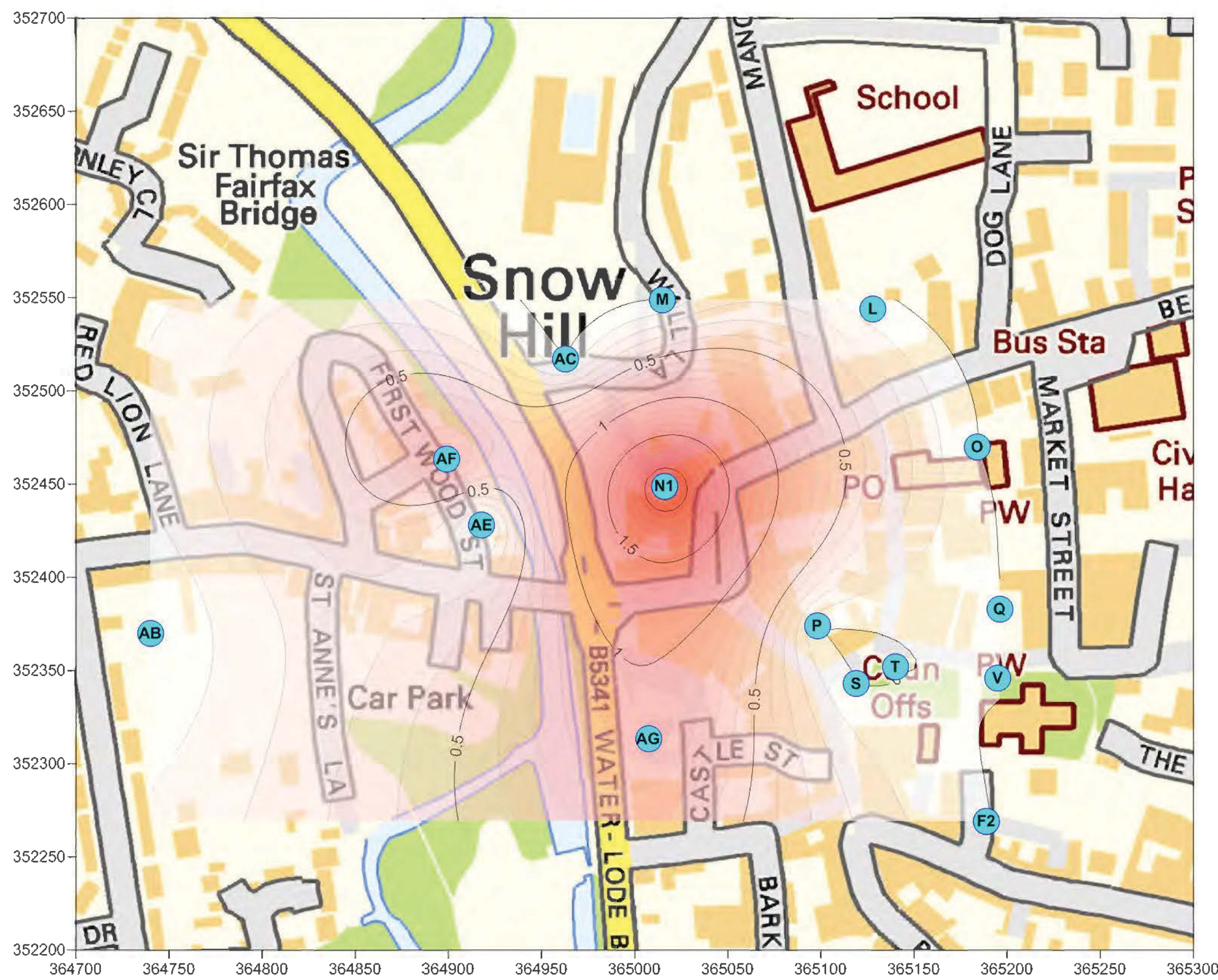
SCALE BAR:
Dissolved Methane
(mg/l)



SLR
HERMES HOUSE
HOLSWORTH PARK
OXON BUSINESS PARK
SHREWSBURY SY3 5HJ
T. 01743 239250
www.slrconsulting.com

NANTWICH
WATERLOGGED DEPOSITS
DISSOLVED METHANE
(mg/l)
FEBRUARY 2015
DRAWING X.X

Scale 1:25,000 @ A3 Date DECEMBER 2015

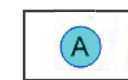


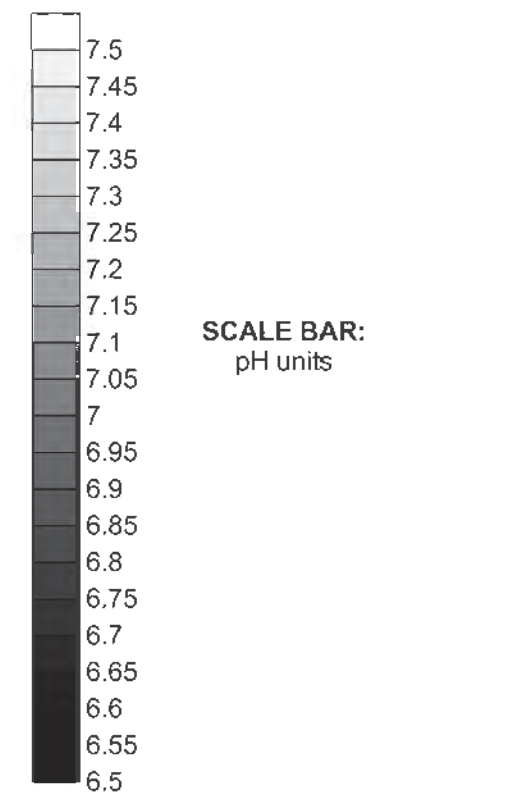
© This drawing and its content are the copyright of SLR Consulting Ltd and may not be reproduced or amended except by prior written permission.
SLR Consulting Ltd accepts no liability for any amendments made by other persons.

NOTES

Contains Ordnance Survey Data
© Crown copyright and database right 2015

LEGEND

 Monitoring Well Location



SLR
HERMES HOUSE
HOLSWORTH PARK
OXON BUSINESS PARK
SHREWSBURY SY3 5HJ
T: 01743 239250
www.slrconsulting.com

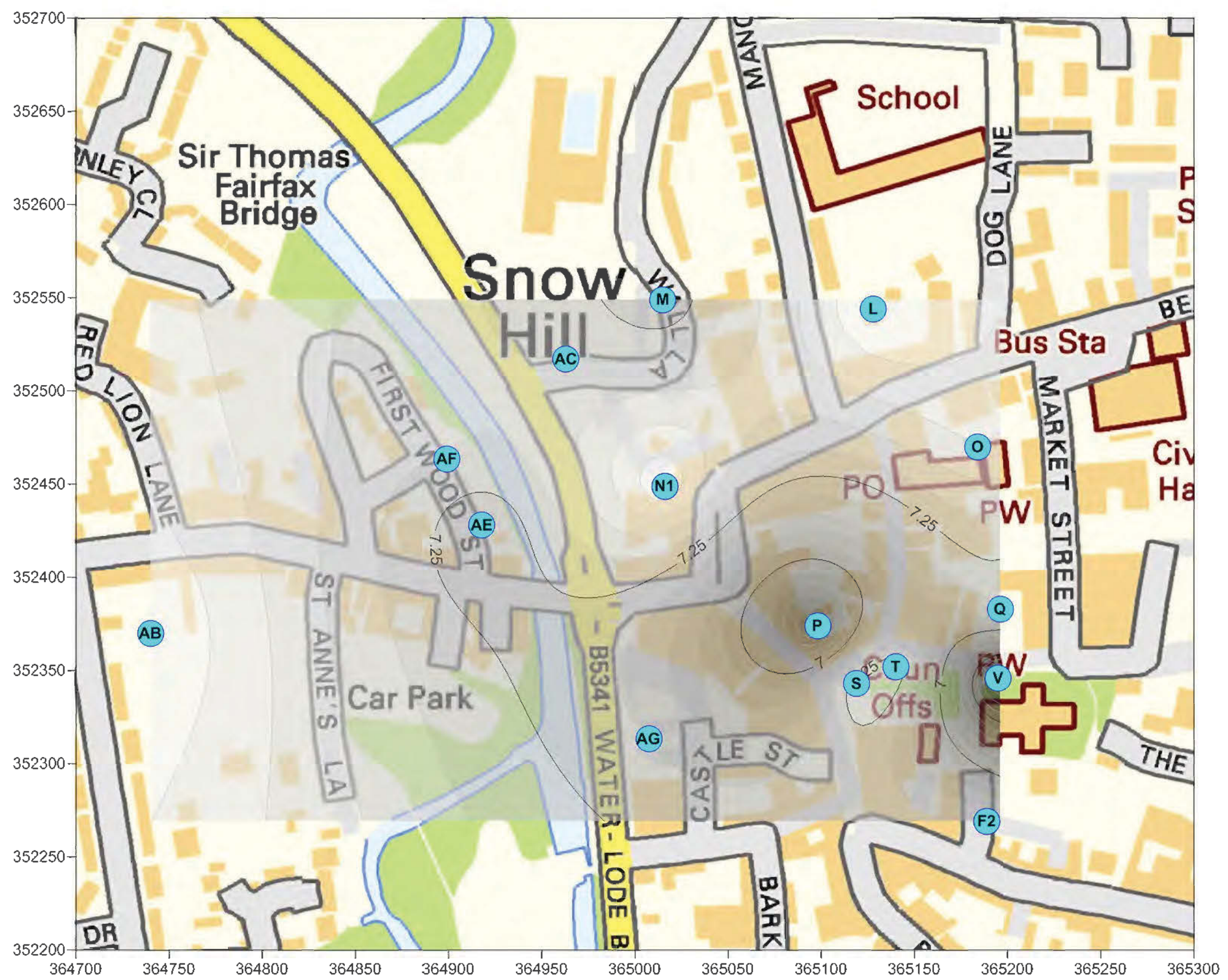
NANTWICH
WATERLOGGED DEPOSITS

pH

FEBRUARY 2015

DRAWING X.X

Scale 1:25,000 @ A3 Date DECEMBER 2015

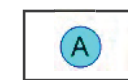


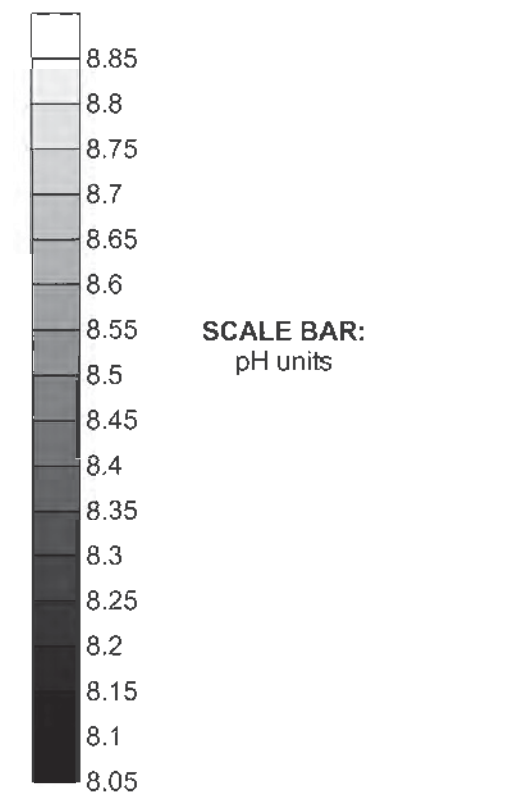
© This drawing and its content are the copyright of SLR Consulting Ltd and may not be reproduced or amended except by prior written permission.
SLR Consulting Ltd accepts no liability for any amendments made by other persons.

NOTES

Contains Ordnance Survey Data
© Crown copyright and database right 2015

LEGEND

 Monitoring Well Location



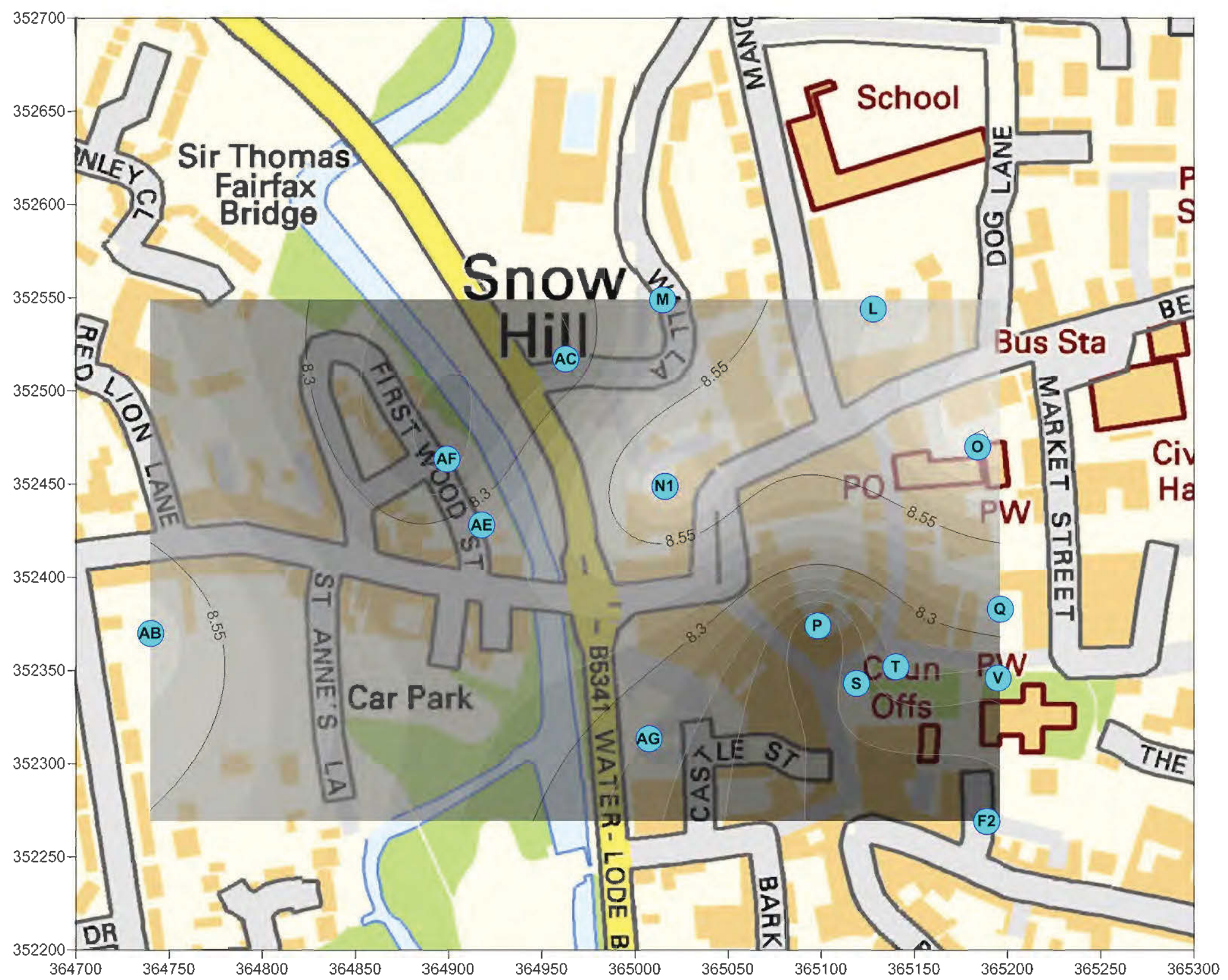
NANTWICH
WATERLOGGED DEPOSITS

pH

MAY 2015

DRAWING X.X

Scale 1:25,000 @ A3 Date DECEMBER 2015

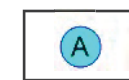


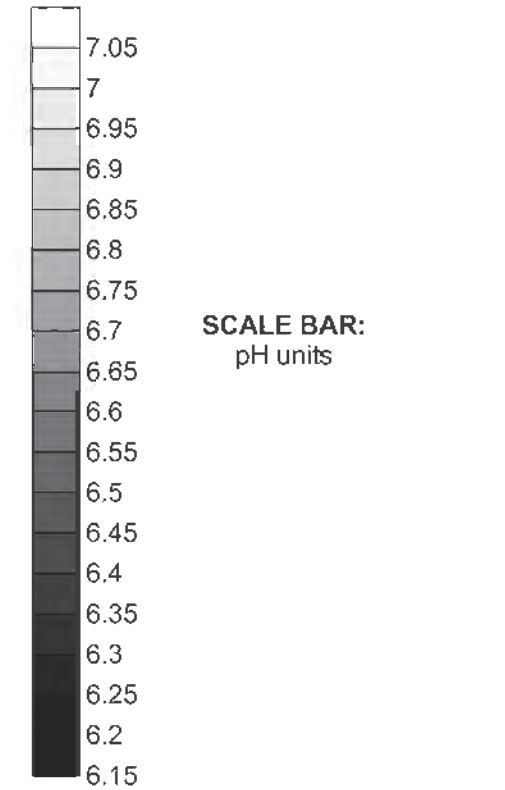
© This drawing and its content are the copyright of SLR Consulting Ltd and may not be reproduced or amended except by prior written permission.
SLR Consulting Ltd accepts no liability for any amendments made by other persons.

NOTES

Contains Ordnance Survey Data
© Crown copyright and database right 2015

LEGEND

 Monitoring Well Location



SLR
HERMES HOUSE
HOLSWORTH PARK
OXON BUSINESS PARK
SHREWSBURY SY3 5HJ
T: 01743 239250
www.slrconsulting.com

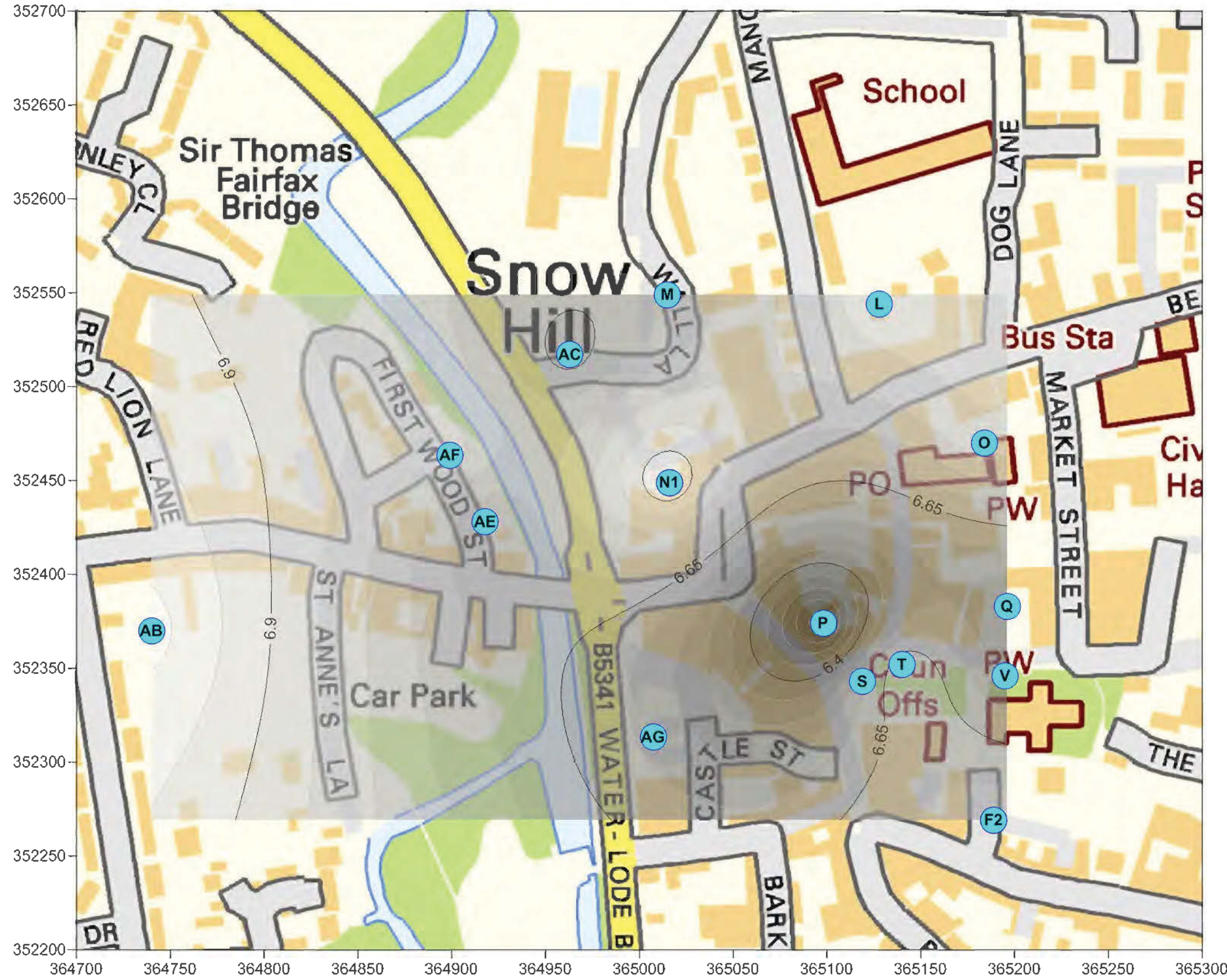
NANTWICH
WATERLOGGED DEPOSITS

pH

AUGUST 2015

DRAWING X.X

Scale 1:25,000 @ A3 Date DECEMBER 2015

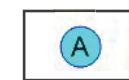


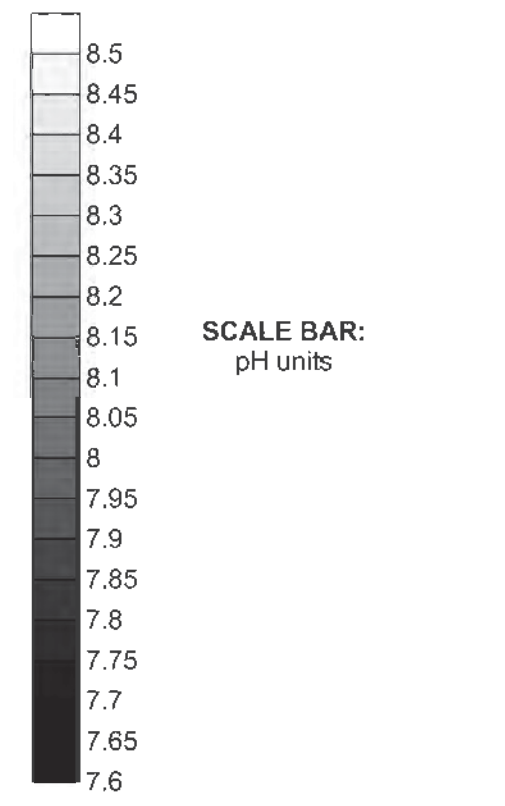
© This drawing and its content are the copyright of SLR Consulting Ltd and may not be reproduced or amended except by prior written permission.
SLR Consulting Ltd accepts no liability for any amendments made by other persons.

NOTES

Contains Ordnance Survey Data
© Crown copyright and database right 2015

LEGEND

 Monitoring Well Location



SLR
HERMES HOUSE
HOLSWORTH PARK
OXON BUSINESS PARK
SHREWSBURY SY3 5HJ
T: 01743 239250
www.slrconsulting.com

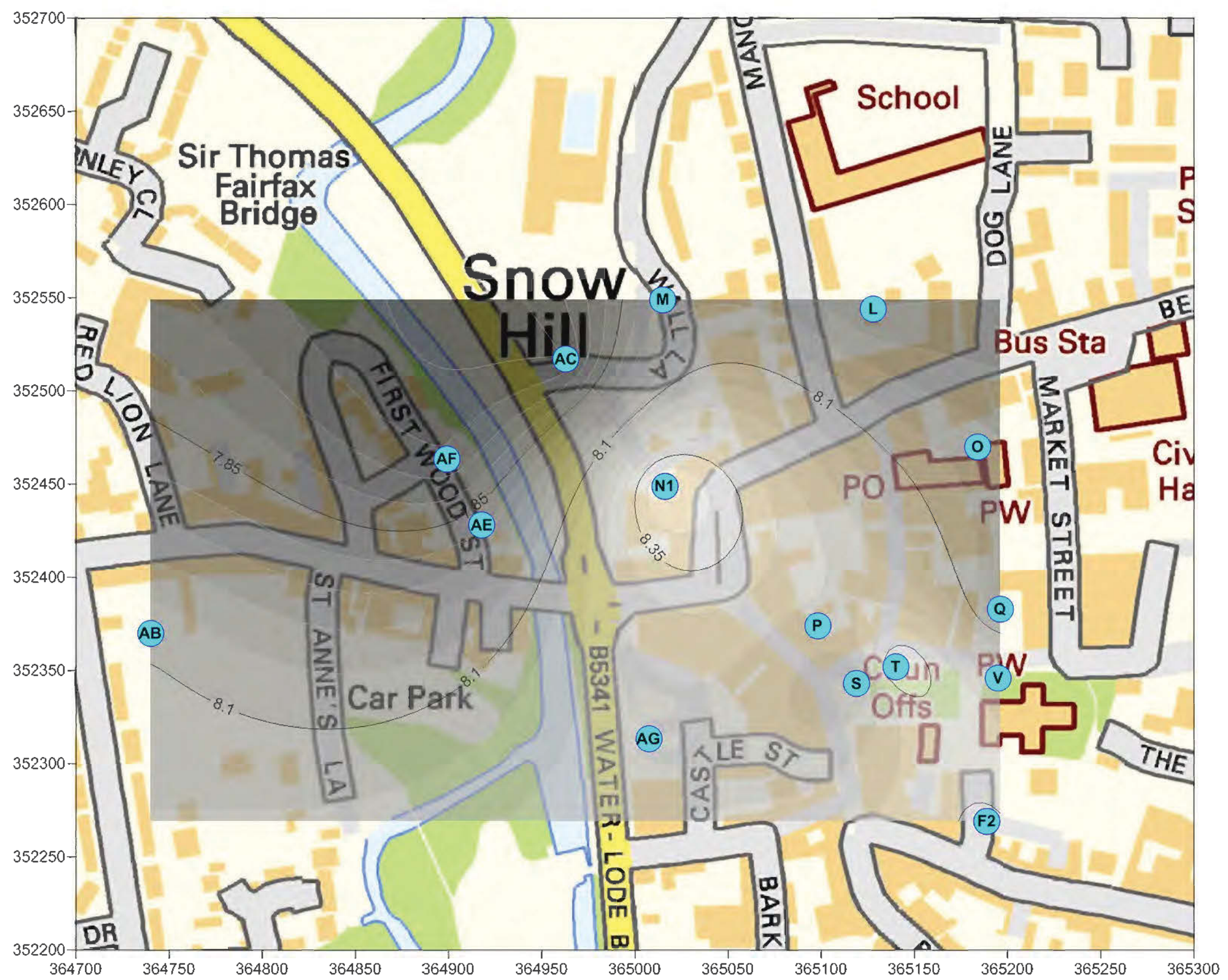
NANTWICH
WATERLOGGED DEPOSITS

pH

DECEMBER 2015

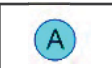
DRAWING X.X

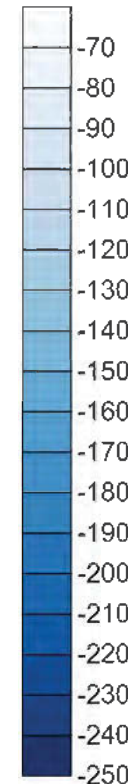
Scale 1:25,000 @ A3 Date DECEMBER 2015



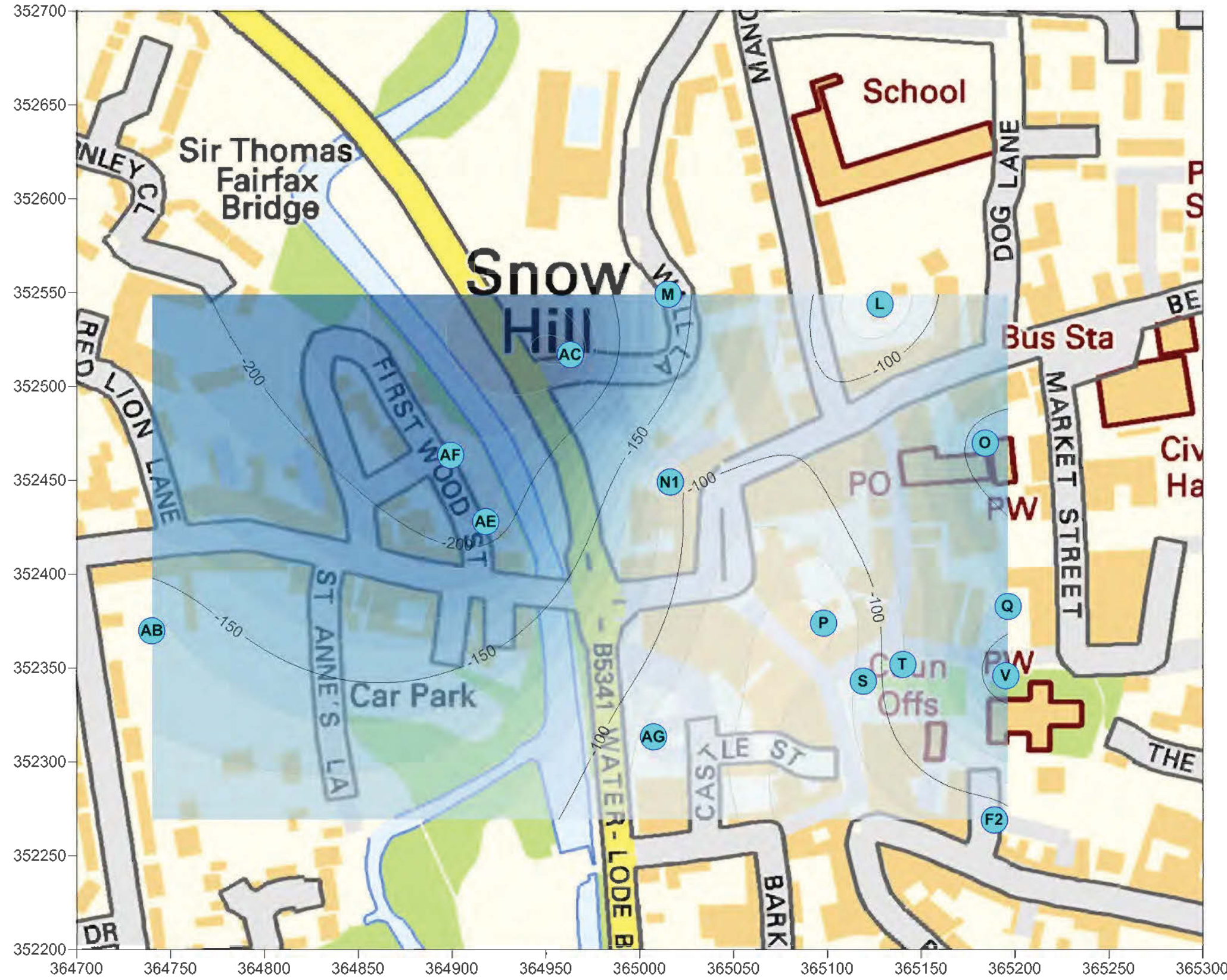
© This drawing and its content are the copyright of SLR Consulting Ltd and may not be reproduced or amended except by prior written permission.
SLR Consulting Ltd accepts no liability for any amendments made by other persons.

NOTES
 Contains Ordnance Survey Data
 © Crown copyright and database right 2015

LEGEND
 Monitoring Well Location



SCALE BAR:
 REDOX POTENTIAL
 (mv SHE)



SLR
 HERMES HOUSE
 HOLSWORTH PARK
 OXON BUSINESS PARK
 SHREWSBURY SY3 5JU
 T: 01743 239250
 www.slrconsulting.com

NANTWICH
 WATERLOGGED DEPOSITS

REDOX POTENTIAL
 (mv SHE)

FEBRUARY 2015

DRAWING X.X

© This drawing and its content are the copyright of SLR Consulting Ltd and may not be reproduced or amended except by prior written permission.
 SLR Consulting Ltd accepts no liability for any amendments made by other persons.

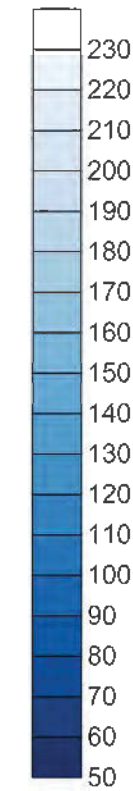
Scale 1:25,000 @ A3 Date DECEMBER 2015

NOTES

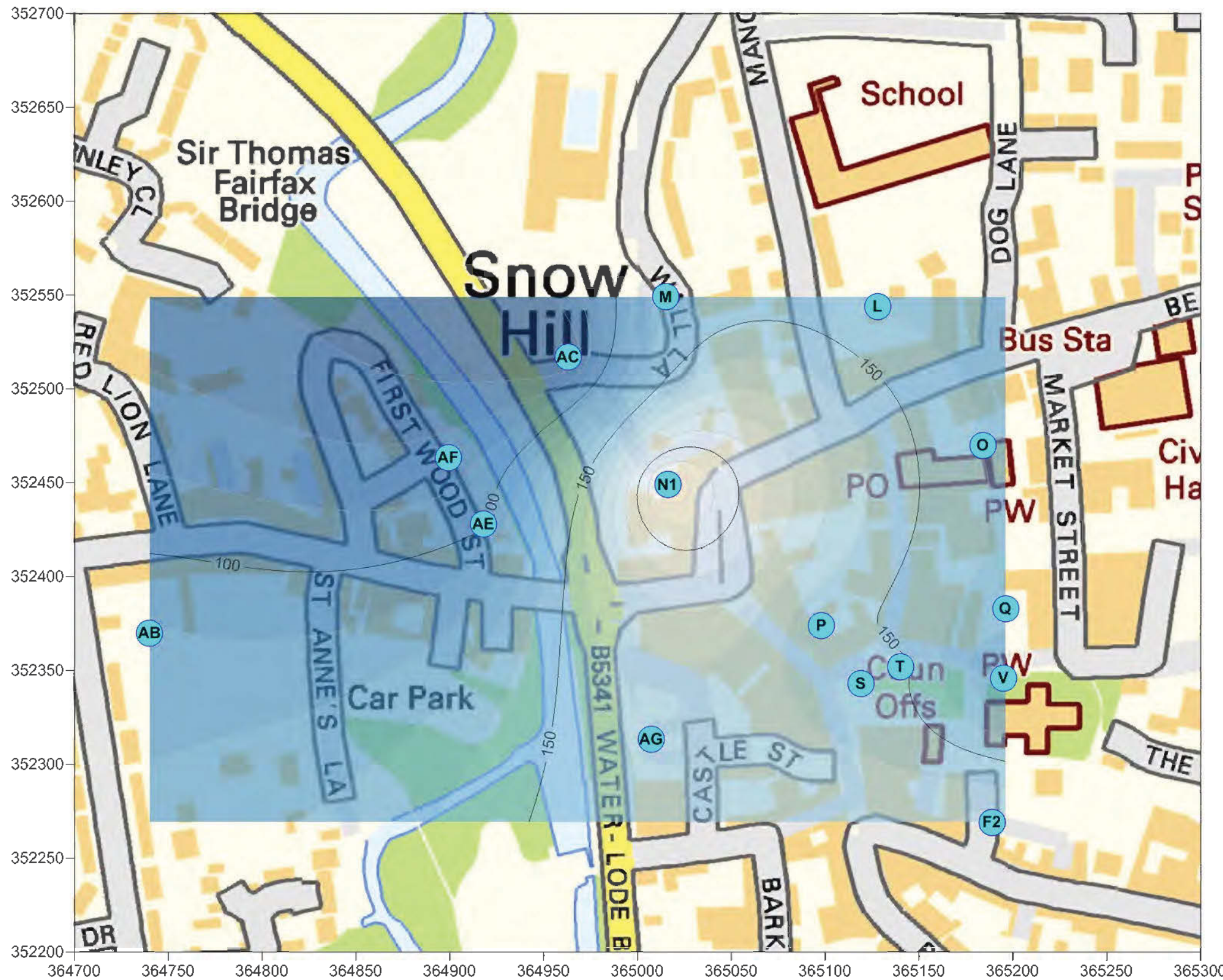
Contains Ordnance Survey Data
© Crown copyright and database right 2015

LEGEND

 Monitoring Well Location



SCALE BAR:
REDOX POTENTIAL
(mv SHE)



© This drawing and its content are the copyright of SLR Consulting Ltd and may not be reproduced or amended except by prior written permission.
SLR Consulting Ltd accepts no liability for any amendments made by other persons.



NANTWICH
WATERLOGGED DEPOSITS


REDOX POTENTIAL
(mv SHE)

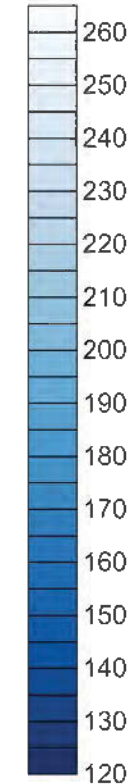
MAY 2015

DRAWING X.X

Scale 1:25,000 @ A3 Date DECEMBER 2015

NOTES
 Contains Ordnance Survey Data
 © Crown copyright and database right 2015

LEGEND
 Monitoring Well Location



SCALE BAR:
 REDOX POTENTIAL
 (mv SHE)



SLR
 HERMES HOUSE
 HOLSWORTH PARK
 OXON BUSINESS PARK
 SHREWSBURY SY3 5HJ
 T. 01743 239250
www.slrconsulting.com

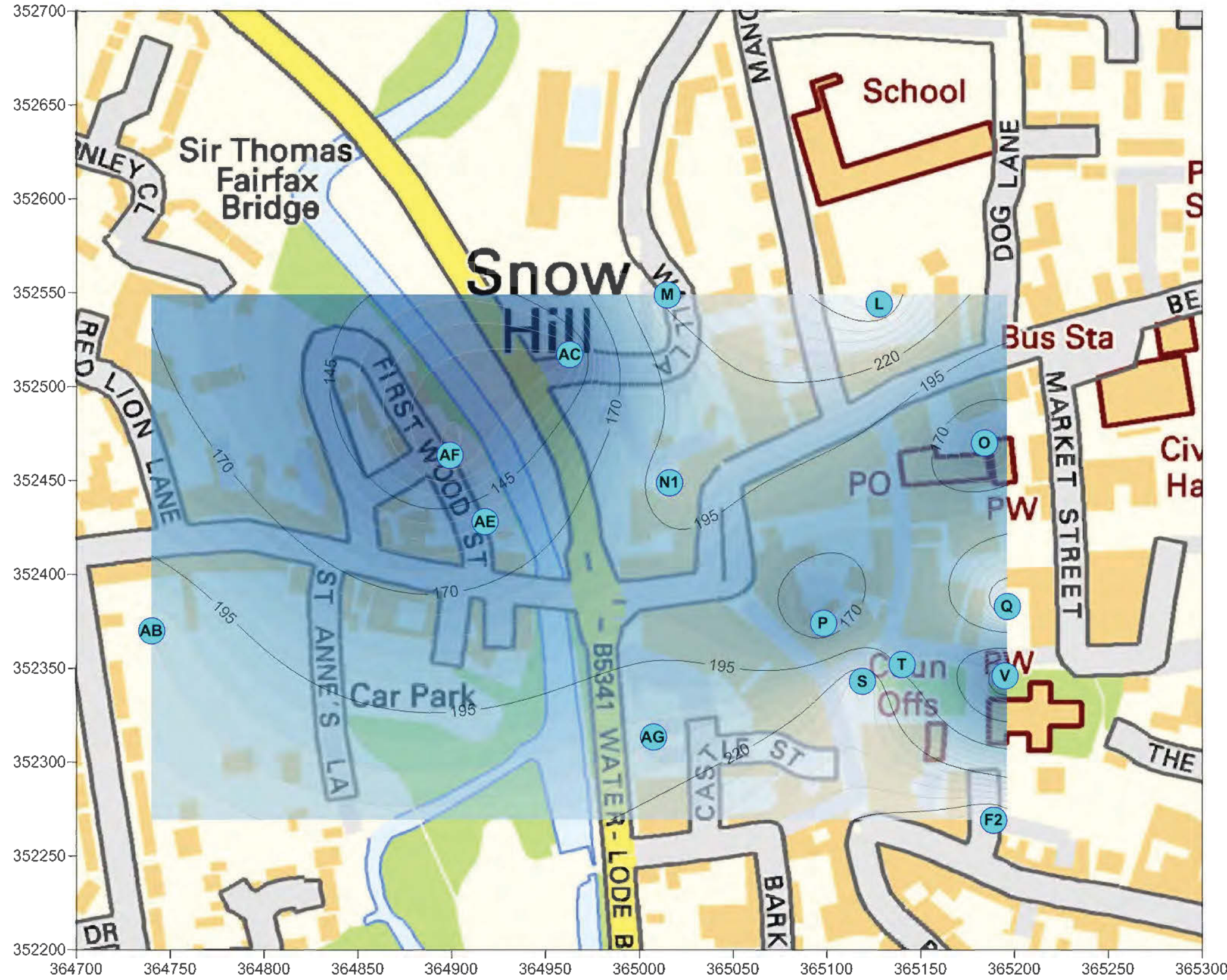
NANTWICH
 WATERLOGGED DEPOSITS

REDOX POTENTIAL
 (mv SHE)

AUGUST 2015

DRAWING X.X

Scale 1:25,000 @ A3 Date DECEMBER 2015

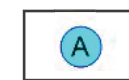


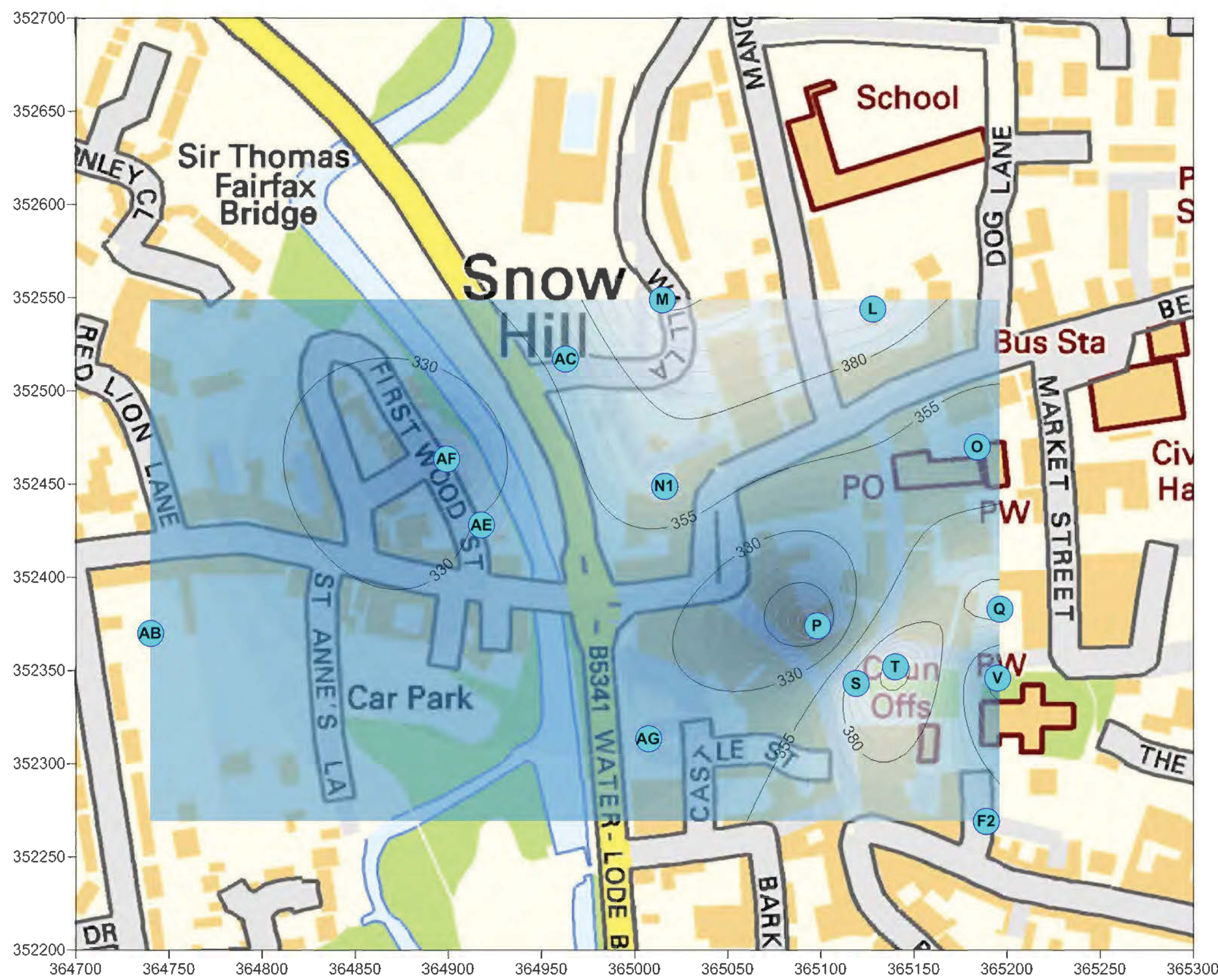
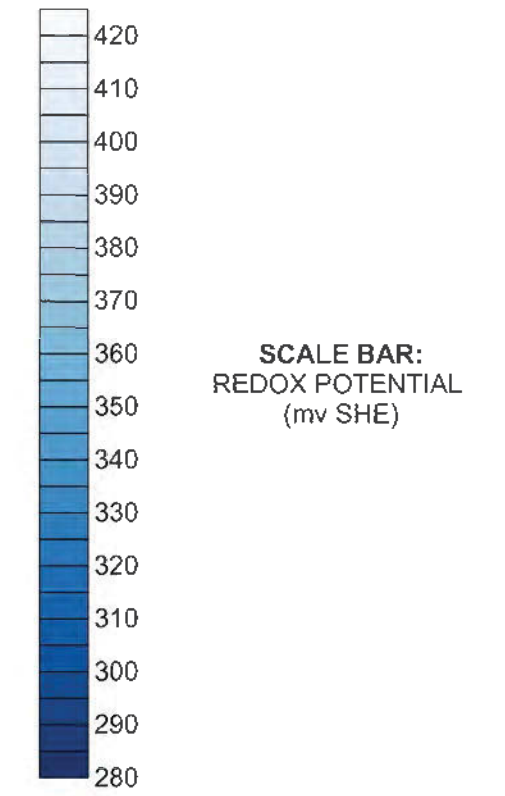
© This drawing and its content are the copyright of SLR Consulting Ltd and may not be reproduced or amended except by prior written permission.
 SLR Consulting Ltd accepts no liability for any amendments made by other persons.

NOTES

Contains Ordnance Survey Data
© Crown copyright and database right 2015

LEGEND

 Monitoring Well Location



SLR
HERMES HOUSE
HOLSWORTH PARK
OXON BUSINESS PARK
SHREWSBURY SY3 5HJ
T. 01743 239250
www.slrconsulting.com

NANTWICH
WATERLOGGED DEPOSITS

REDOX POTENTIAL
(mv SHE)

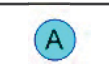
DECEMBER 2015

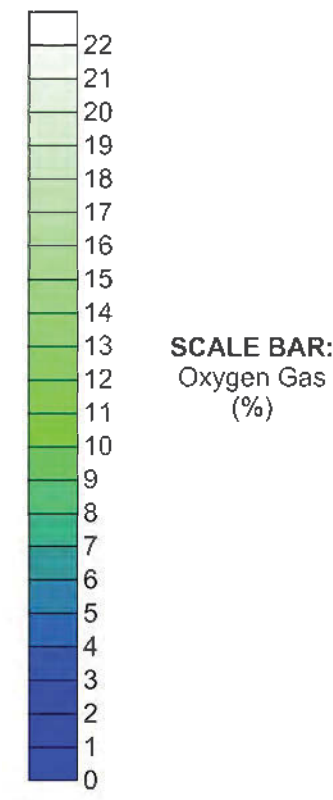
DRAWING X.X

© This drawing and its content are the copyright of SLR Consulting Ltd and may not be reproduced or amended except by prior written permission.
SLR Consulting Ltd accepts no liability for any amendments made by other persons.

Scale 1:25,000 @ A3 Date DECEMBER 2015

NOTES
 Contains Ordnance Survey Data
 © Crown copyright and database right 2015

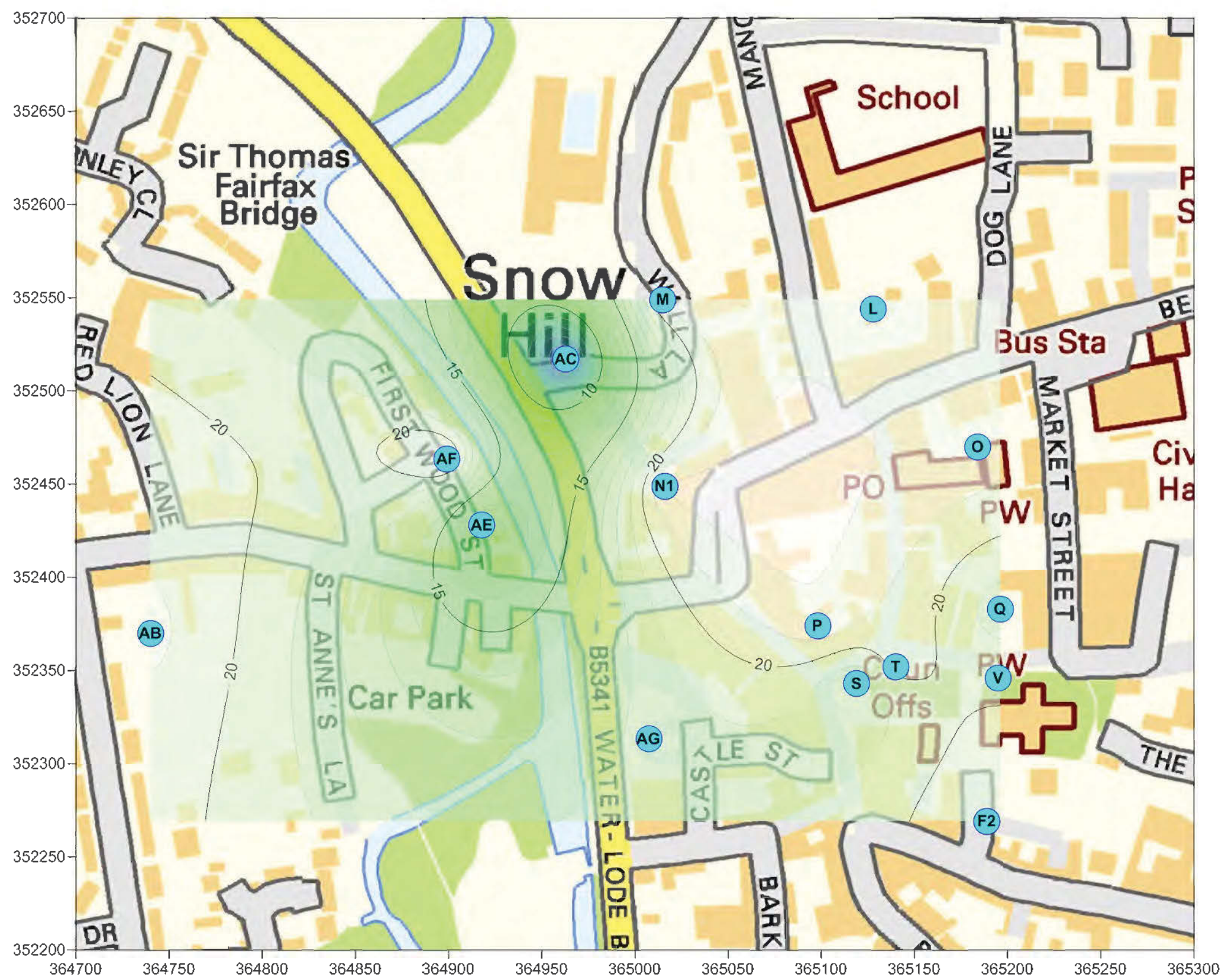
LEGEND
 Monitoring Well Location



SLR
 HERMES HOUSE
 HOLSWORTH PARK
 OXON BUSINESS PARK
 SHREWSBURY SY3 5HJ
 T: 01743 239250
www.slrconsulting.com

NANTWICH
 WATERLOGGED DEPOSITS
 OXYGEN GAS (%)
 JANUARY 2015
 DRAWING X.X

Scale 1:25,000 @ A3 Date DECEMBER 2015

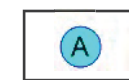


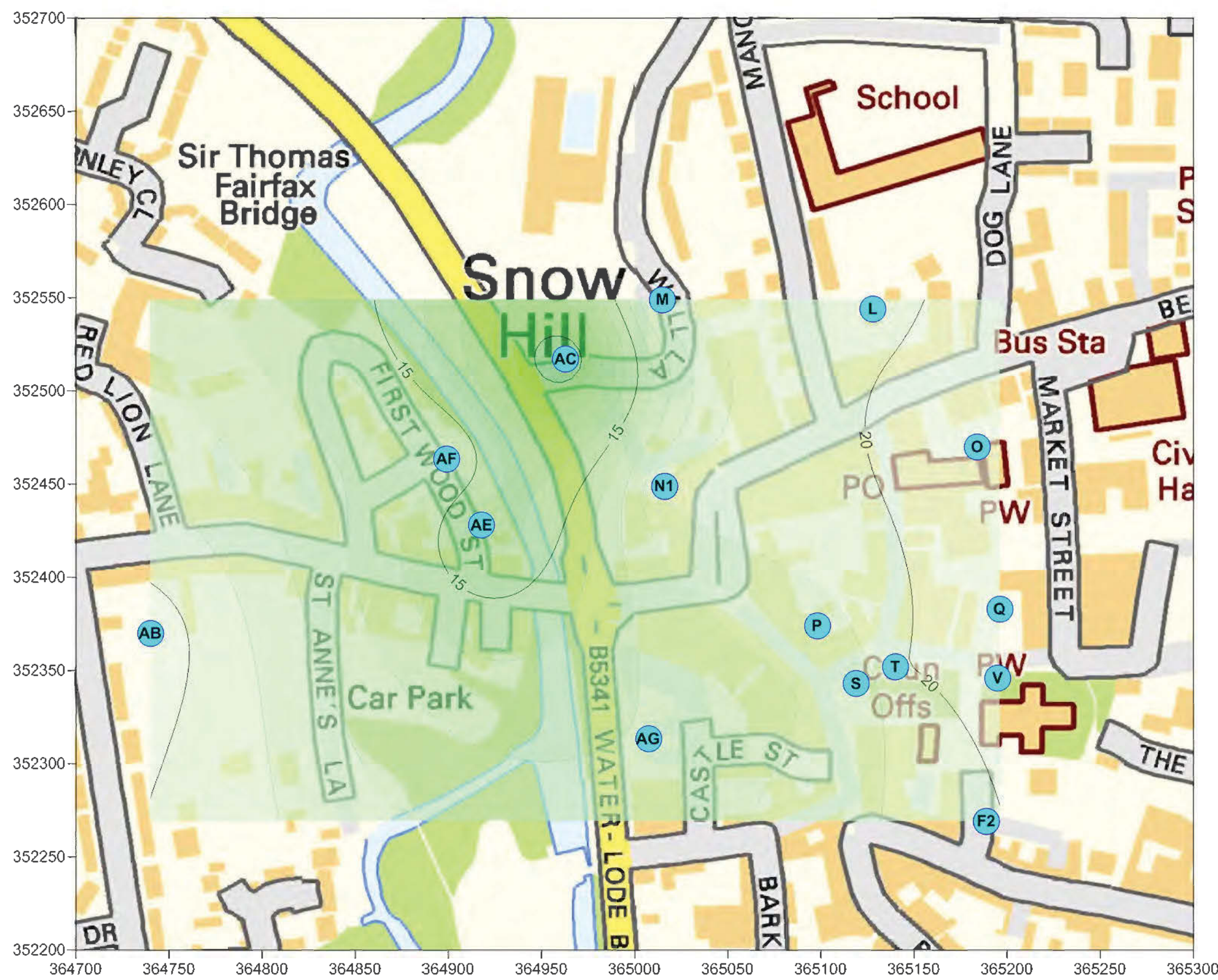
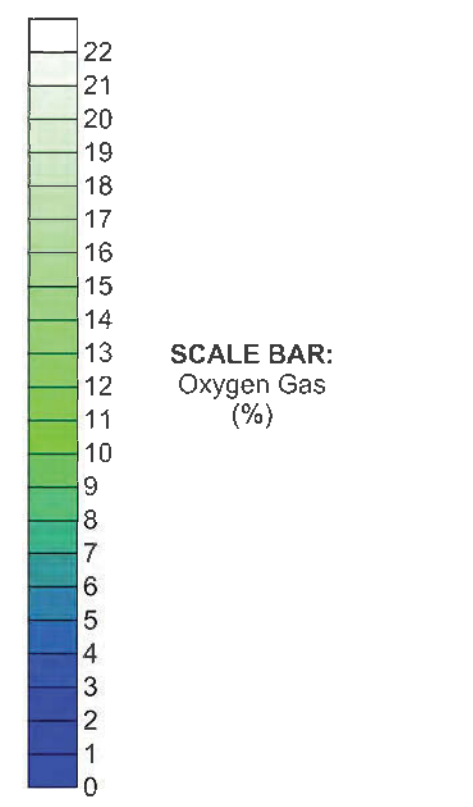
© This drawing and its content are the copyright of SLR Consulting Ltd and may not be reproduced or amended except by prior written permission.
 SLR Consulting Ltd accepts no liability for any amendments made by other persons.

NOTES

Contains Ordnance Survey Data
© Crown copyright and database right 2015

LEGEND

 Monitoring Well Location



SLR
HERMES HOUSE
HOLSWORTH PARK
OXON BUSINESS PARK
SHREWSBURY SY3 5HJ
T: 01743 239250
www.slrconsulting.com

NANTWICH
WATERLOGGED DEPOSITS

OXYGEN GAS (%)

MAY 2015

DRAWING X.X

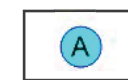
Scale 1:25,000 @ A3 Date DECEMBER 2015

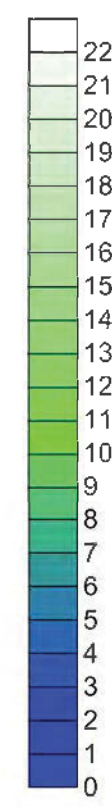
© This drawing and its content are the copyright of SLR Consulting Ltd and may not be reproduced or amended except by prior written permission.
SLR Consulting Ltd accepts no liability for any amendments made by other persons.

NOTES

Contains Ordnance Survey Data
© Crown copyright and database right 2015

LEGEND

 Monitoring Well Location



SCALE BAR:
Oxygen Gas (%)



© This drawing and its content are the copyright of SLR Consulting Ltd and may not be reproduced or amended except by prior written permission.
SLR Consulting Ltd accepts no liability for any amendments made by other persons.



SLR
HERMES HOUSE
HOLSWORTH PARK
OXON BUSINESS PARK
SHREWSBURY SY3 5HJ
T: 01743 239250
www.slrconsulting.com

NANTWICH
WATERLOGGED DEPOSITS

OXYGEN GAS (%)

JULY 2015

DRAWING X.X

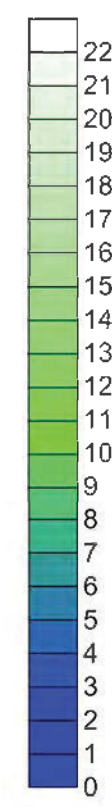
Scale 1:25,000 @ A3 Date DECEMBER 2015

NOTES

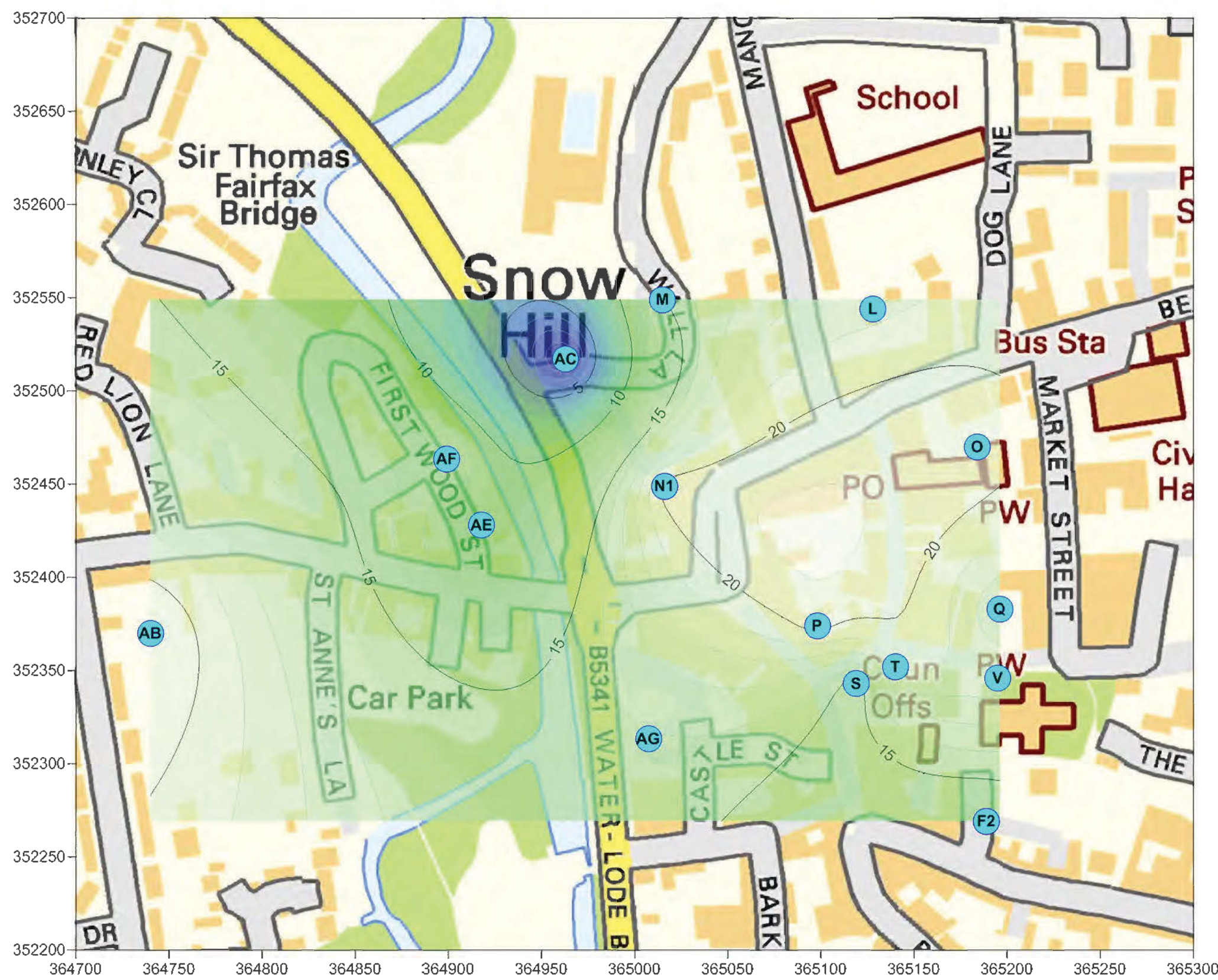
Contains Ordnance Survey Data
© Crown copyright and database right 2015

LEGEND

 Monitoring Well Location



SCALE BAR:
Oxygen Gas (%)



© This drawing and its content are the copyright of SLR Consulting Ltd and may not be reproduced or amended except by prior written permission.
SLR Consulting Ltd accepts no liability for any amendments made by other persons.



SLR
HERMES HOUSE
HOLSWORTH PARK
OXON BUSINESS PARK
SHREWSBURY SY3 5HJ
T: 01743 239250
www.slrconsulting.com

NANTWICH
WATERLOGGED DEPOSITS

OXYGEN GAS (%)

OCTOBER 2015

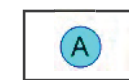
DRAWING X.X

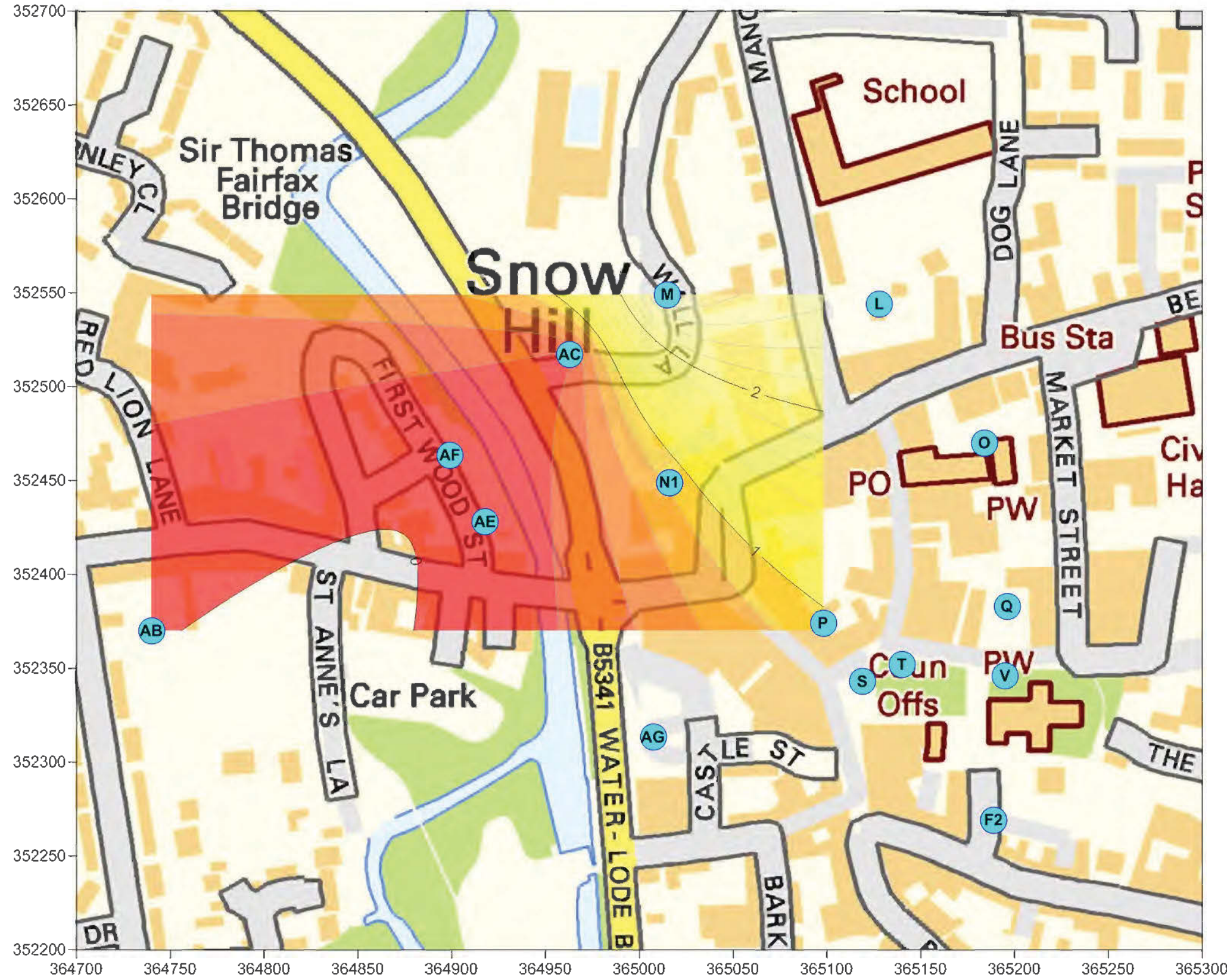
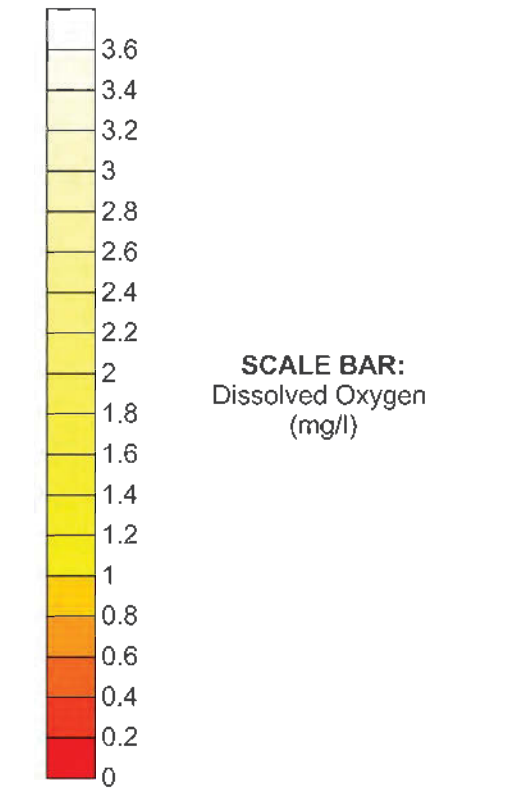
Scale 1:25,000 @ A3 Date DECEMBER 2015

NOTES

Contains Ordnance Survey Data
© Crown copyright and database right 2015

LEGEND

 Monitoring Well Location



SLR
HERMES HOUSE
HOLSWORTH PARK
OXON BUSINESS PARK
SHREWSBURY SY3 5HJ
T: 01743 239250
www.slrconsulting.com

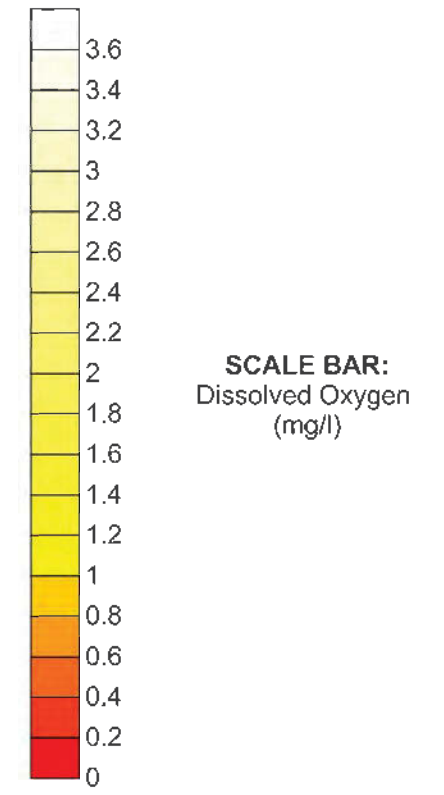
NANTWICH
WATERLOGGED DEPOSITS
DISSOLVED OXYGEN (mg/l)
FEBRUARY 2015
DRAWING X.X

Scale 1:25,000 @ A3 Date DECEMBER 2015

© This drawing and its content are the copyright of SLR Consulting Ltd and may not be reproduced or amended except by prior written permission.
SLR Consulting Ltd accepts no liability for any amendments made by other persons.

NOTES
 Contains Ordnance Survey Data
 © Crown copyright and database right 2015

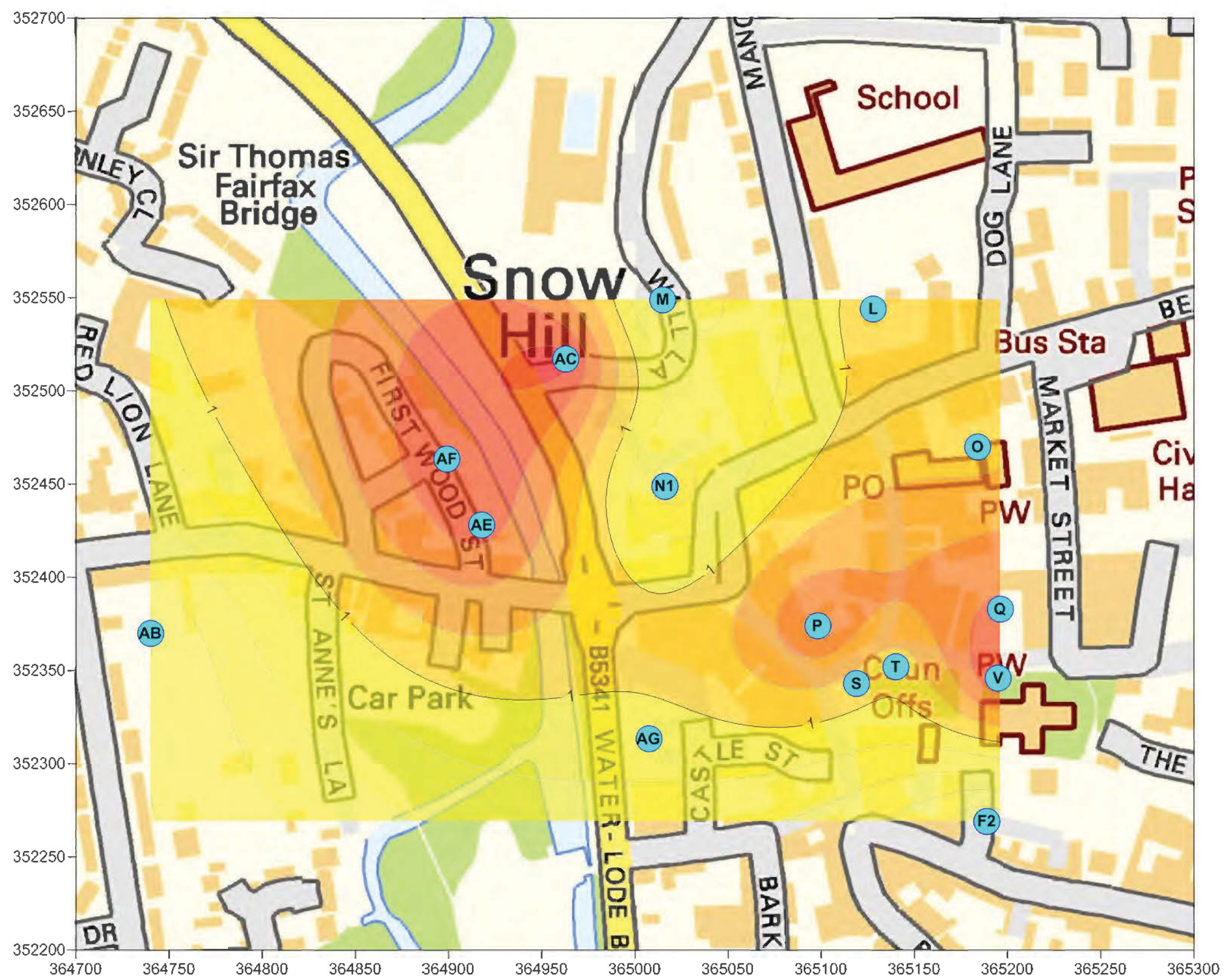
LEGEND
 Monitoring Well Location



SLR
 HERMES HOUSE
 HOLSWORTH PARK
 OXON BUSINESS PARK
 SHREWSBURY SY3 5HJ
 T: 01743 239250
 www.slrconsulting.com

NANTWICH
 WATERLOGGED DEPOSITS
 DISSOLVED OXYGEN
 (mg/l)
 MAY 2015
 DRAWING X.X

Scale 1:25,000 @ A3 Date DECEMBER 2015

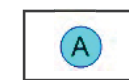


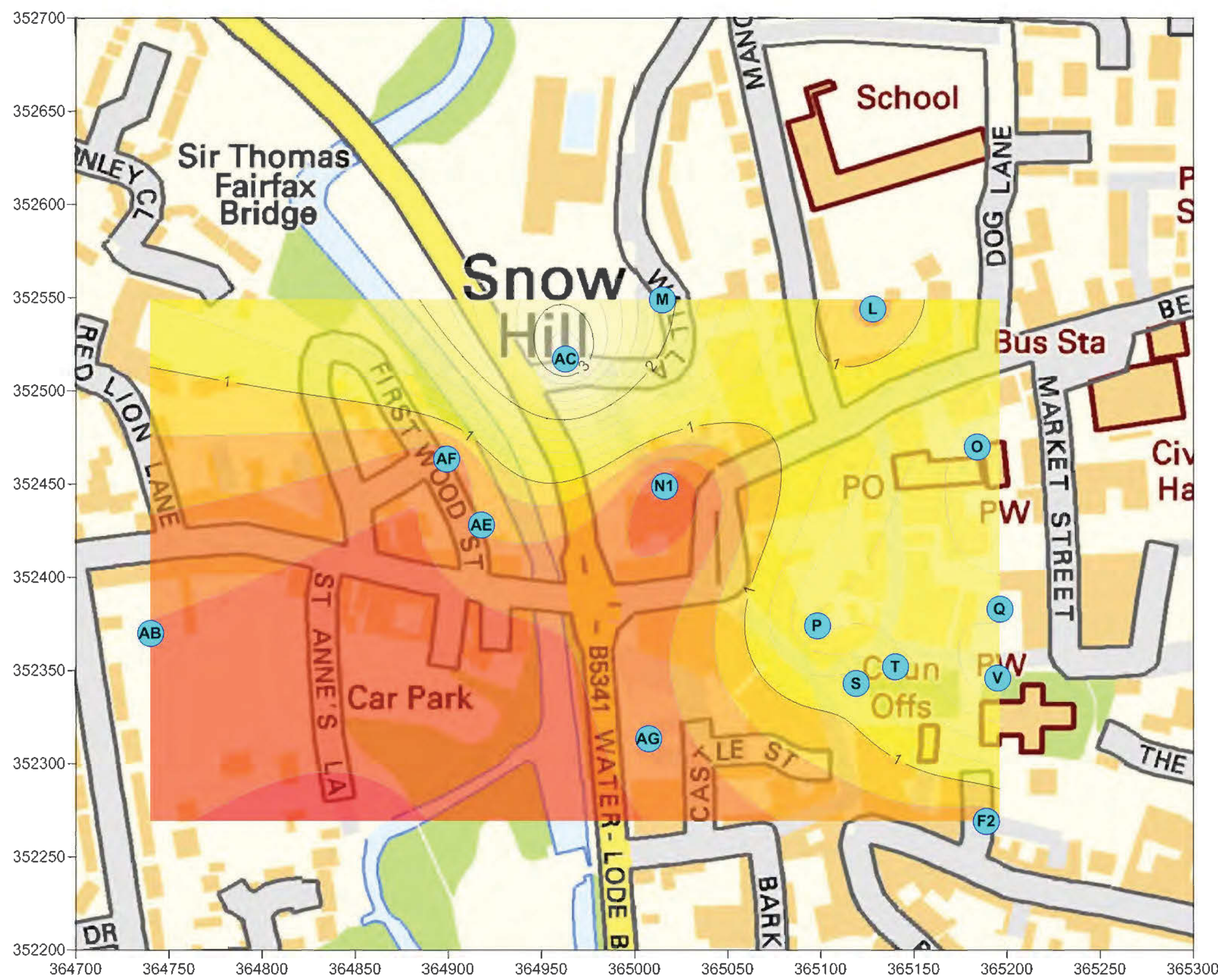
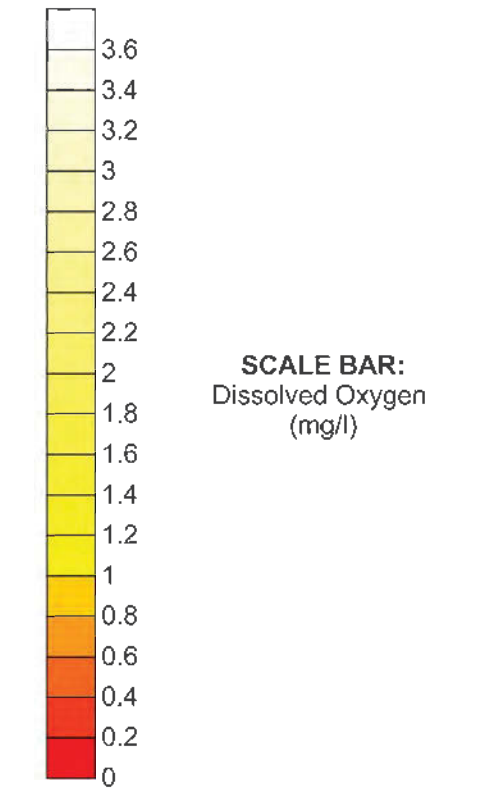
© This drawing and its content are the copyright of SLR Consulting Ltd and may not be reproduced or amended except by prior written permission.
 SLR Consulting Ltd accepts no liability for any amendments made by other persons.

NOTES

Contains Ordnance Survey Data
© Crown copyright and database right 2015

LEGEND

 Monitoring Well Location



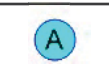
SLR
HERMES HOUSE
HOLSWORTH PARK
OXON BUSINESS PARK
SHREWSBURY SY3 5HJ
T: 01743 239250
www.slrconsulting.com

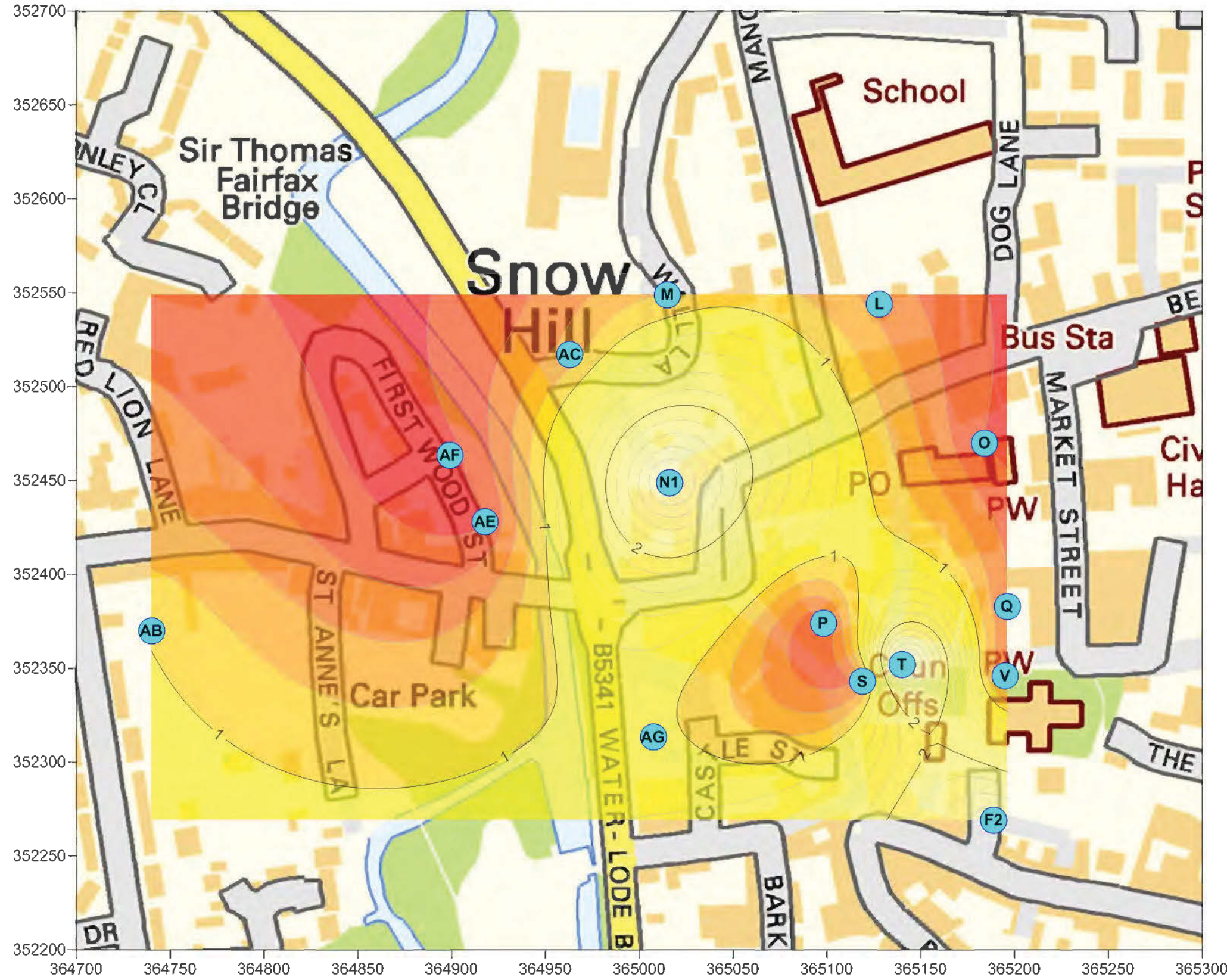
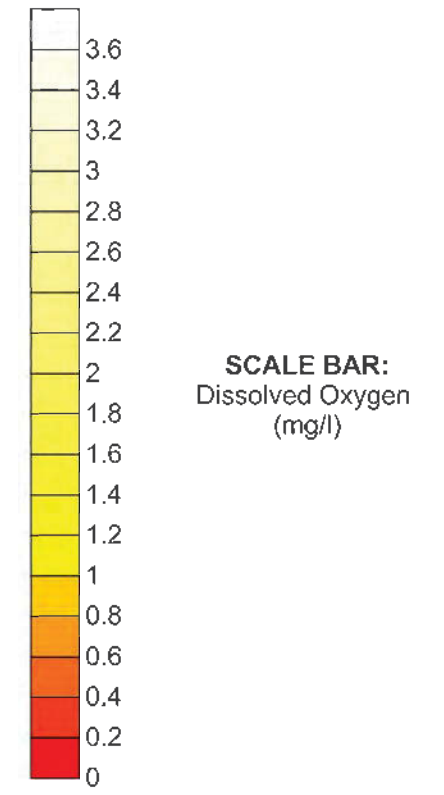
NANTWICH
WATERLOGGED DEPOSITS
DISSOLVED OXYGEN
(mg/l)
AUGUST 2015
DRAWING X.X

Scale 1:25,000 @ A3 Date DECEMBER 2015

© This drawing and its content are the copyright of SLR Consulting Ltd and may not be reproduced or amended except by prior written permission.
SLR Consulting Ltd accepts no liability for any amendments made by other persons.

NOTES
 Contains Ordnance Survey Data
 © Crown copyright and database right 2015

LEGEND
 Monitoring Well Location



© This drawing and its content are the copyright of SLR Consulting Ltd and may not be reproduced or amended except by prior written permission.
 SLR Consulting Ltd accepts no liability for any amendments made by other persons.



SLR
 HERMES HOUSE
 HOLSWORTH PARK
 OXON BUSINESS PARK
 SHREWSBURY SY3 5HJ
 T: 01743 239250
 www.slrconsulting.com

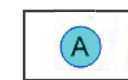
NANTWICH
 WATERLOGGED DEPOSITS
 DISSOLVED OXYGEN
 (mg/l)
 DECEMBER 2015
 DRAWING X.X

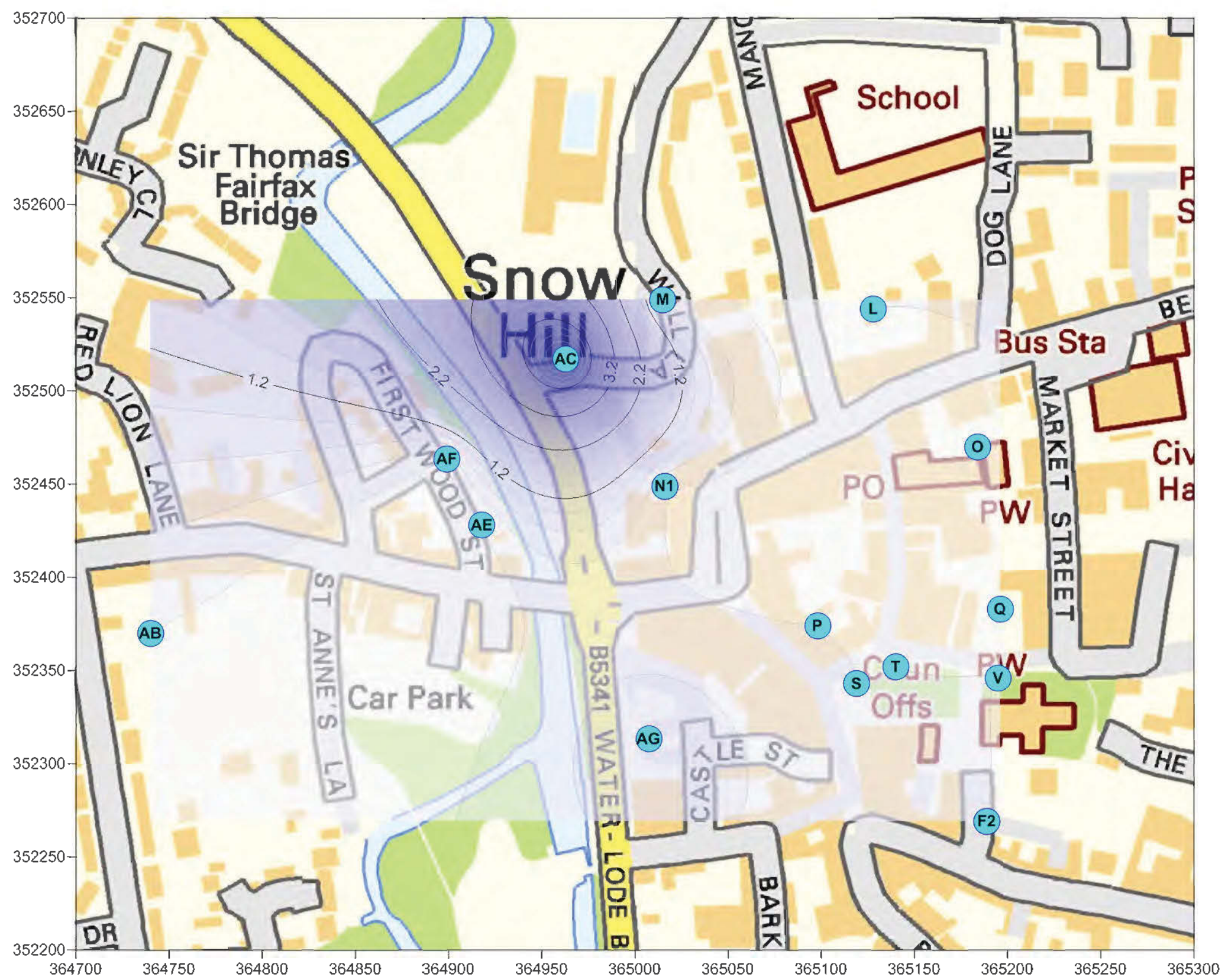
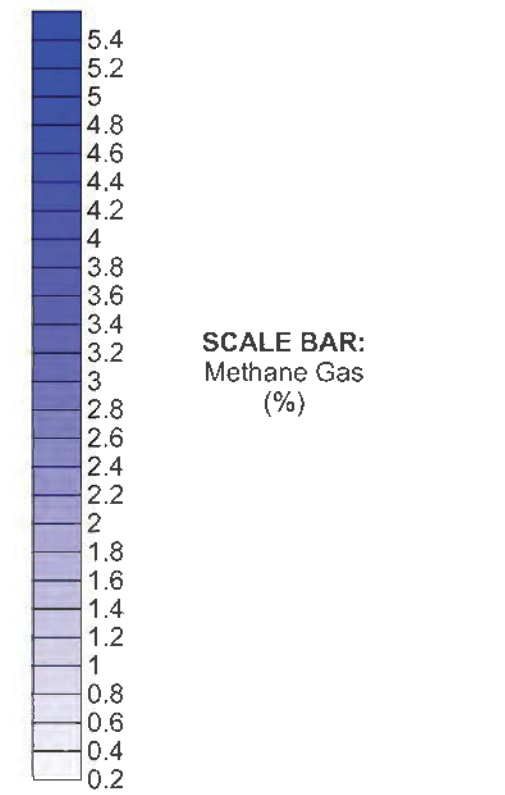
Scale 1:25,000 @ A3 Date DECEMBER 2015

NOTES

Contains Ordnance Survey Data
© Crown copyright and database right 2015

LEGEND

 Monitoring Well Location



NANTWICH
WATERLOGGED DEPOSITS

METHANE GAS (%)

JANUARY 2015

DRAWING X.X

Scale 1:25,000 @ A3 Date DECEMBER 2015

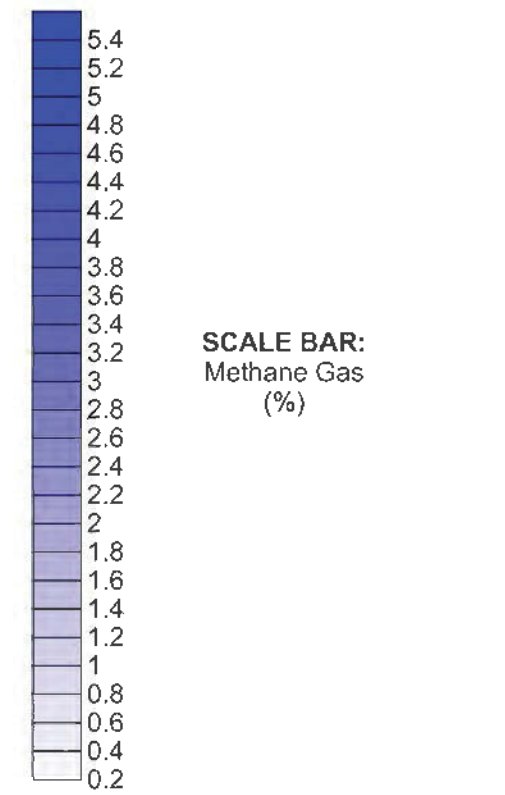
© This drawing and its content are the copyright of SLR Consulting Ltd and may not be reproduced or amended except by prior written permission. SLR Consulting Ltd accepts no liability for any amendments made by other persons.

NOTES

Contains Ordnance Survey Data
© Crown copyright and database right 2015

LEGEND

 Monitoring Well Location



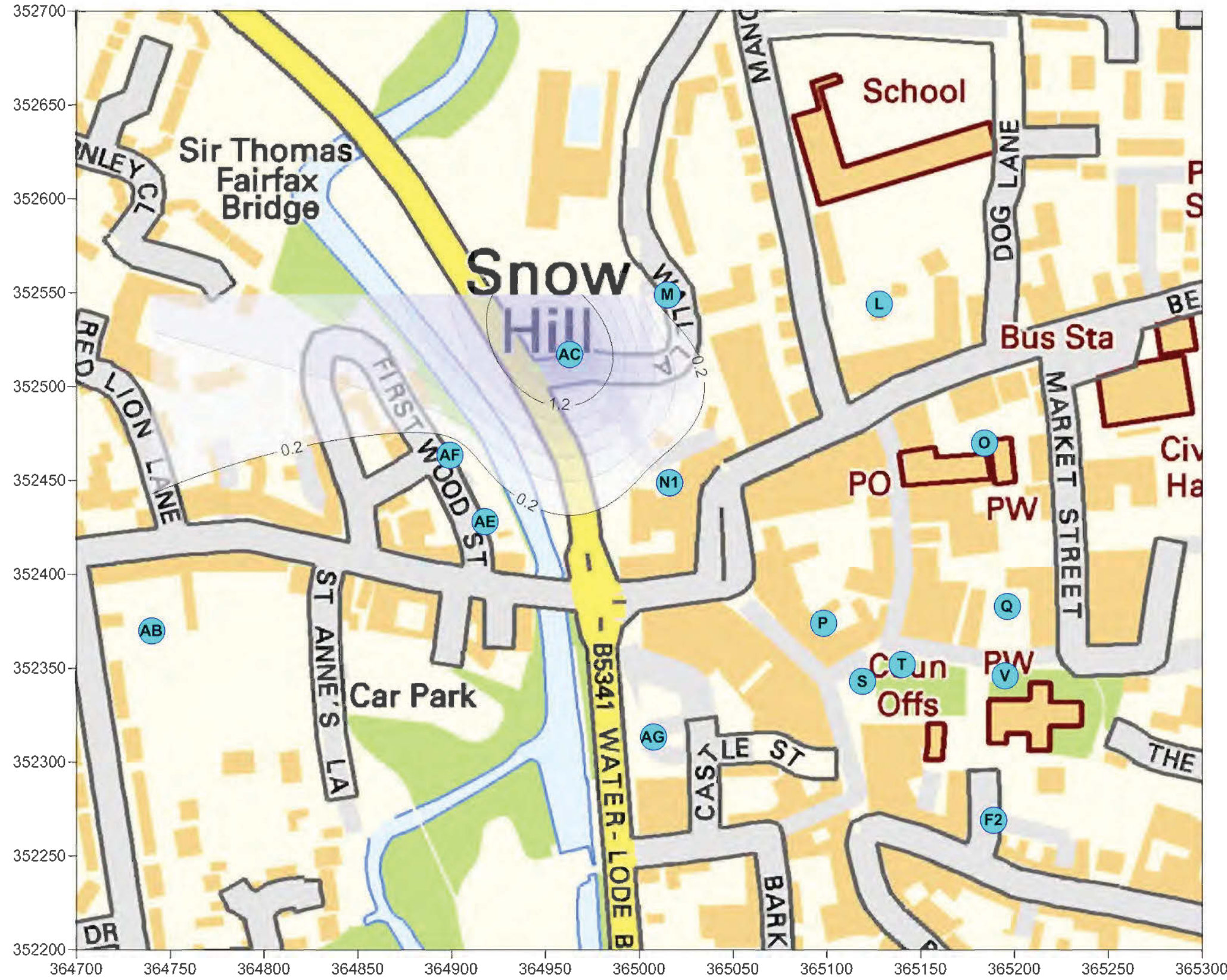
NANTWICH
WATERLOGGED DEPOSITS

METHANE GAS (%)

MAY 2015

DRAWING X.X

Scale 1:25,000 @ A3 Date DECEMBER 2015




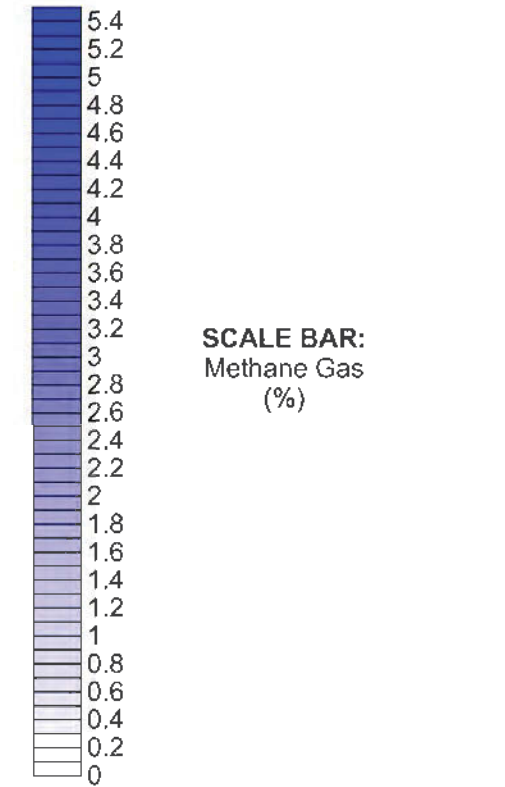
© This drawing and its content are the copyright of SLR Consulting Ltd and may not be reproduced or amended except by prior written permission.
SLR Consulting Ltd accepts no liability for any amendments made by other persons.

NOTES

Contains Ordnance Survey Data
© Crown copyright and database right 2015

LEGEND

 Monitoring Well Location



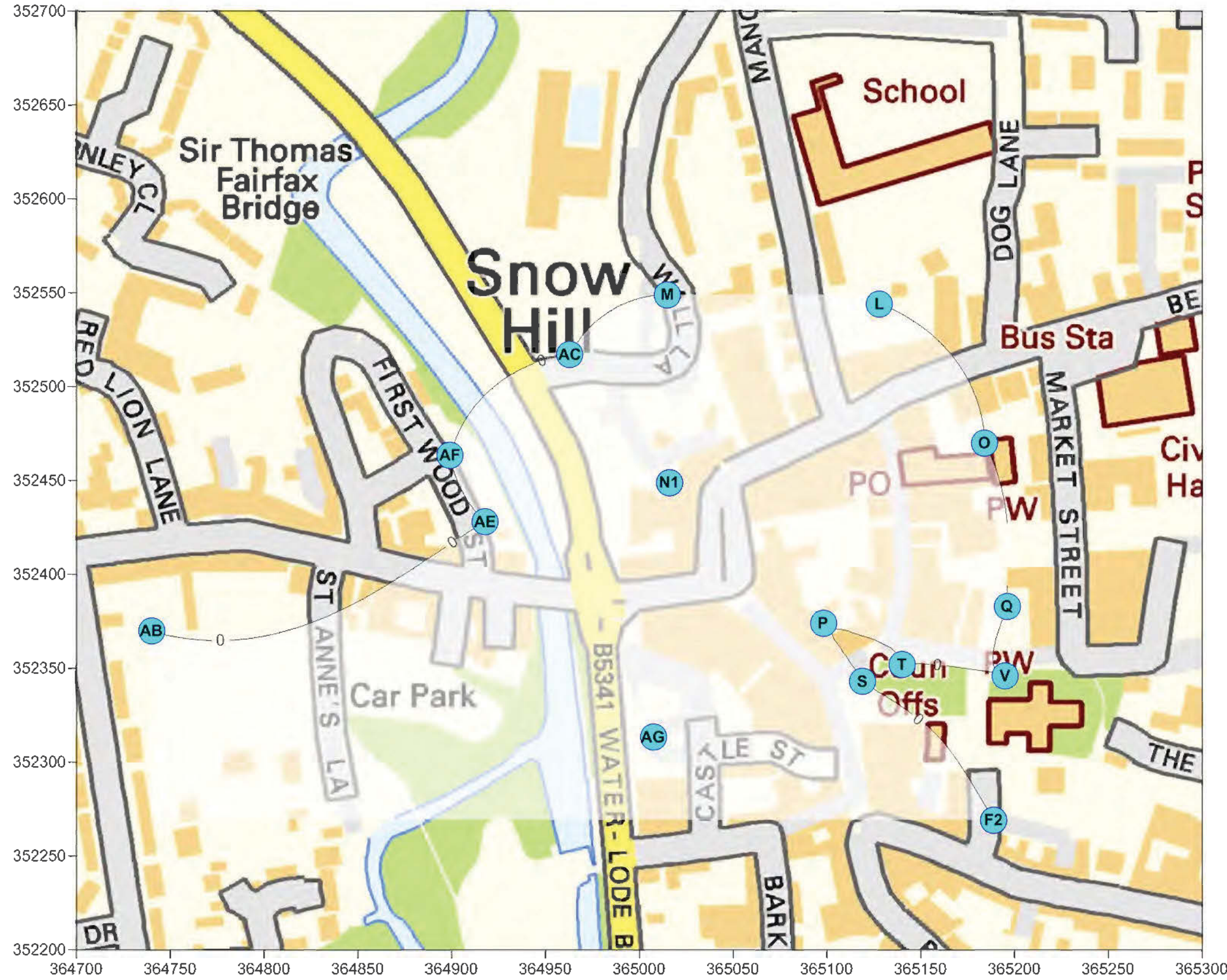
NANTWICH
WATERLOGGED DEPOSITS

METHANE GAS (%)

JULY 2015

DRAWING X.X

Scale 1:25,000 @ A3 Date DECEMBER 2015

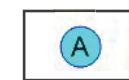


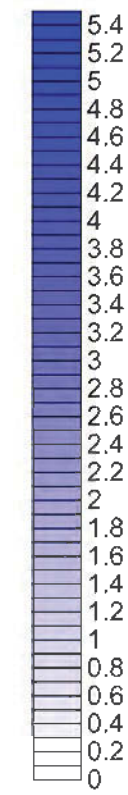
© This drawing and its content are the copyright of SLR Consulting Ltd and may not be reproduced or amended except by prior written permission.
SLR Consulting Ltd accepts no liability for any amendments made by other persons.

NOTES

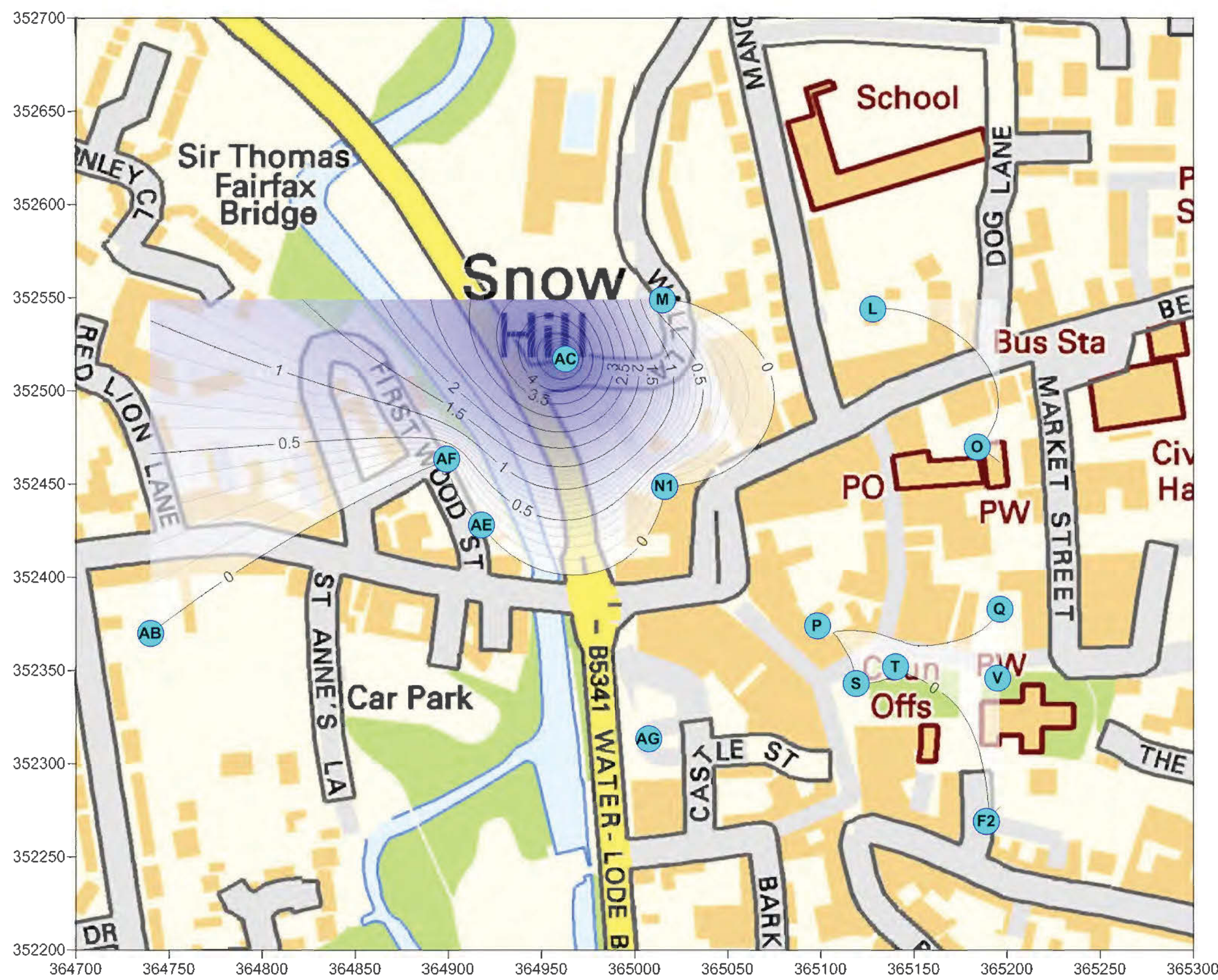
Contains Ordnance Survey Data
© Crown copyright and database right 2015

LEGEND

 Monitoring Well Location



SCALE BAR:
Methane Gas (%)



© This drawing and its content are the copyright of SLR Consulting Ltd and may not be reproduced or amended except by prior written permission.
SLR Consulting Ltd accepts no liability for any amendments made by other persons.



SLR
HERMES HOUSE
HOLSWORTH PARK
OXON BUSINESS PARK
SHREWSBURY SY3 5HJ
T: 01743 239250
www.slrconsulting.com

NANTWICH
WATERLOGGED DEPOSITS
METHANE GAS (%)
OCTOBER 2015
DRAWING X.X

Scale 1:25,000 @ A3 Date DECEMBER 2015

Client Name: SLR Consulting Ltd
Reference: 406.00889.00005
Location: Nantwich Town
Contact: Mark Swain
JE Job No.: 15/4279

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle
H=H₂SO₄, Z=ZnAc, N=NaOH, HN=HNO₃

J E Sample No.	1-7	8-14	15-21	22-28	29-35	36-42	43-49	50-56	57-63	64-70	Please see attached notes for all abbreviations and acronyms		
Sample ID	AC	N1	AE	AF	AB	M	O	Q	S	V			
Depth	3.5	2.2	3.5	3.8	2.8	2.5	2.5	2.8	3.287	2.8			
COC No / misc													
Containers	V HN HCL Z P G	V HN HCL Z P G	V HN HCL Z P G	V HN HCL Z P G	V HN HCL Z P G	V HN HCL Z P G	V HN HCL Z P G	V HN HCL Z P G	V HN HCL Z P G	V HN HCL Z P G			
Sample Date	23/02/2015	23/02/2015	23/02/2015	23/02/2015	23/02/2015	23/02/2015	24/02/2015	24/02/2015	24/02/2015	24/02/2015			
Sample Type	Liquid	Liquid	Liquid	Liquid	Liquid	Liquid	Liquid	Liquid	Liquid	Liquid			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	28/02/2015	28/02/2015	28/02/2015	28/02/2015	28/02/2015	28/02/2015	28/02/2015	28/02/2015	28/02/2015	28/02/2015	LOD/LOR	Units	Method No.
Total Dissolved Iron	17	0.39	0.78	5.4	<0.02	<0.02	0.66	0.12	<0.02	29	<0.02	mg/l	TM30/PM14
Dissolved Manganese	2.4	0.57	0.85	1.1	<0.002	0.22	1.3	0.017	0.16	5.0	<0.002	mg/l	TM30/PM14
Dissolved Sodium	470 _A	25	180	420 _A	110	180	46	200	200	28	<0.1	mg/l	TM30/PM14
Sulphate	180	86	69	0.94	96	110	12	21	65	420	<0.05	mg/l	TM38/PM0
Chloride	780	28	370	730	170	340	39	240	270	25	<0.3	mg/l	TM38/PM0
Nitrate as NO3	0.6	4.4	6.2	2.3	89	14	15	29	6.6	0.4	<0.2	mg/l	TM38/PM0
Ortho Phosphate as PO4	4.3	1.3	10	15	9.8	7.6	8.8	14	5.6	0.14	<0.06	mg/l	TM38/PM0
Ammoniacal Nitrogen as NH4	1.34	1.48	14.21	41.04	<0.03	<0.03	2.71	0.03	0.07	1.54	<0.03	mg/l	TM38/PM0
Dissolved Methane	<0.001	2.300	<0.001	1.000	<0.001	<0.001	<0.001	0.005	<0.001	0.010	<0.001	mg/l	TM25/PM0
Total Alkalinity as CaCO3	520	430	660	820	450	320	330	310	350	110	<1	mg/l	TM75/PM0
Sulphide	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	mg/l	TM106/PM0
Dissolved Iron II	15 _A	0.42	0.87	5.5 _A	<0.02	<0.02	0.31	<0.02	0.10	26 _D	<0.02	mg/l	TM48/PM0
Dissolved Iron III	2.00 _A	<0.02	<0.02	<0.10 _A	<0.02	<0.02	0.35	0.12	<0.02	3.00 _D	<0.02	mg/l	TM30/TM48/PM0
Manganese II	4.2 _A	0.63	1.0 _A	1.7 _A	<0.02	0.22	1.4 _A	0.03	1.2 _A	8.0 _D	<0.02	mg/l	TM62/PM0
Dissolved Manganese IV (by calculation)	<0.10 _A	<0.02	<0.10 _A	<0.10 _A	<0.02	<0.02	<0.10 _A	<0.02	<0.10 _A	<0.20 _D	<0.02	mg/l	TM62/TM30/PM0
pH	7.3	7.5	7.2	7.3	7.5	7.2	7.4	7.2	7.3	6.5	<0.01	pH units	TM73/PM0

Client Name: SLR Consulting Ltd
 Reference: 406.00889.00005
 Location: Nantwich Town
 Contact: Mark Swain
 JE Job No.: 15/4279

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle
 H=H₂SO₄, Z=ZnAc, N=NaOH, HN=HNO₃

J E Sample No.	71-77	78-84	85-91	92-98	99-105						Please see attached notes for all abbreviations and acronyms			
Sample ID	T	L	AG	F1	P1									
Depth	3.075	3.2	2.4	2.6	3.75									
COC No / misc														
Containers	V HN HCL Z P G	V HN HCL Z P G	V HN HCL Z P G	V HN HCL Z P G	V HN HCL Z P G									
Sample Date	24/02/2015	26/02/2015	26/02/2015	26/02/2015	26/02/2015									
Sample Type	Liquid	Liquid	Liquid	Liquid	Liquid									
Batch Number	1	1	1	1	1									
Date of Receipt	28/02/2015	28/02/2015	28/02/2015	28/02/2015	28/02/2015									
												LOD/LOR	Units	Method No.
Total Dissolved Iron	0.10	0.07	0.04	<0.02	<0.02							<0.02	mg/l	TM30/PM14
Dissolved Manganese	0.12	0.74	2.9	0.73	0.43							<0.002	mg/l	TM30/PM14
Dissolved Sodium	31	170	5500 _E	120	13							<0.1	mg/l	TM30/PM14
Sulphate	30	98	250	360	310							<0.05	mg/l	TM38/PM0
Chloride	42	200	9000	230	15							<0.3	mg/l	TM38/PM0
Nitrate as NO3	8.0	0.8	0.7	9.3	18							<0.2	mg/l	TM38/PM0
Ortho Phosphate as PO4	5.4	1.8	<0.06	3.2	16							<0.06	mg/l	TM38/PM0
Ammoniacal Nitrogen as NH4	0.52	16.66	4.95	1.98	0.04							<0.03	mg/l	TM38/PM0
Dissolved Methane	<0.001	0.047	0.970	0.003	<0.001							<0.001	mg/l	TM25/PM0
Total Alkalinity as CaCO3	230	390	400	320	200							<1	mg/l	TM75/PM0
Sulphide	<0.3	<0.3	<0.3	<0.3	<0.3							<0.3	mg/l	TM106/PM0
Dissolved Iron II	0.05	0.04	2.2	1.6	2.0							<0.02	mg/l	TM48/PM0
Dissolved Iron III	0.05	0.03	<0.02	<0.02	<0.02							<0.02	mg/l	TM30/TM48/PM0
Manganese II	0.16	0.85	6.0 _D	5.5 _D	0.89							<0.02	mg/l	TM62/PM0
Dissolved Manganese IV (by calculation)	<0.02	<0.02	<0.20 _D	<0.20 _D	<0.02							<0.02	mg/l	TM62/TM30/PM0
pH	7.3	7.5	7.2	7.2	6.7							<0.01	pH units	TM73/PM0

ABBREVIATIONS and ACRONYMS USED

#	UKAS accredited.
B	Indicates analyte found in associated method blank.
DR	Dilution required.
M	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
++	Result outside calibration range, results should be considered as indicative only and are not accredited.
*	Analysis subcontracted to a Jones Environmental approved laboratory.
AD	Samples are dried at 35°C ±5°C
CO	Suspected carry over
LOD/LOR	Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS
ME	Matrix Effect
NFD	No Fibres Detected
OC	Outside Calibration Range
A	x5 Dilution
D	x10 Dilution
E	x100 Dilution

Date	Groundwater Depth (m below ground level)						Rainfall (mm)
	F1	P	N1	AB	AE	AF	
26/01/2011	1.191	3.27147	1.658	1.72983	2.517	2.784	0
27/01/2011	1.273	3.28025	1.689	1.74794	2.617	2.850	0.402
28/01/2011	1.299	3.27382	1.699	1.74481	2.624	2.849	0
29/01/2011	1.298	3.27454	1.704	1.75165	2.611	2.839	0
30/01/2011	1.298	3.2794	1.712	1.75907	2.623	2.845	0
31/01/2011	1.305	3.28611	1.721	1.76605	2.631	2.851	0
01/02/2011	1.309	3.28742	1.726	1.77287	2.581	2.841	0
02/02/2011	1.413	3.28416	1.732	1.70773	2.746	2.829	1.407
03/02/2011	1.425	3.29351	1.741	1.72298	2.746	2.834	0
04/02/2011	1.406	3.29413	1.737	1.72627	2.688	2.798	0
05/02/2011	1.419	3.29734	1.742	1.73566	2.716	2.812	0.402
06/02/2011	1.400	3.30278	1.751	1.75063	2.766	2.843	0.402
07/02/2011	1.422	3.30351	1.755	1.75098	2.743	2.828	1.809
08/02/2011	1.471	3.31245	1.764	1.76653	2.807	2.867	0
09/02/2011	1.450	3.30596	1.761	1.76451	2.747	2.833	0
10/02/2011	1.456	3.31055	1.763	1.77312	2.734	2.824	0.804
11/02/2011	1.337	3.3001	1.704	1.77588	2.722	2.818	4.02
12/02/2011	1.280	3.28985	1.669	1.78192	2.724	2.820	0.402
13/02/2011	1.351	3.28717	1.659	1.77077	2.661	2.784	4.02
14/02/2011	1.132	3.27127	1.467	1.76427	2.649	2.784	5.427
15/02/2011	1.150	3.26598	1.610	1.74371	2.610	2.744	2.613
16/02/2011	1.164	3.27391	1.628	1.73933	2.618	2.753	0
17/02/2011	1.194	3.28095	1.651	1.73478	2.706	2.799	0.603
18/02/2011	1.209	3.28757	1.676	1.73428	2.759	2.831	0
19/02/2011	1.176	3.28321	1.683	1.72602	2.717	2.804	0
20/02/2011	1.085	3.28242	1.629	1.72967	2.748	2.823	4.422
21/02/2011	1.097	3.28383	1.660	1.72396	2.721	2.802	0
22/02/2011	1.101	3.28463	1.670	1.72266	2.725	2.802	0.201
23/02/2011	1.113	3.28604	1.678	1.72527	2.725	2.801	1.005
24/02/2011	1.061	3.2836	1.626	1.72805	2.741	2.814	3.216
25/02/2011	1.082	3.28825	1.658	1.72619	2.737	2.808	0
26/02/2011	0.942	3.24676	1.595	1.71505	2.647	2.754	0
27/02/2011	1.131	3.23903	1.536	1.68043	2.553	2.646	15.075
28/02/2011	1.249	3.24495	1.604	1.65724	2.534	2.654	1.809
01/03/2011	1.305	3.24954	1.633	1.64106	2.589	2.716	0.201
02/03/2011	1.338	3.24852	1.651	1.62769	2.605	2.753	0
03/03/2011	1.365	3.25071	1.658	1.61986	2.617	2.784	0
04/03/2011	1.388	3.25444	1.670	1.62332	2.632	2.798	0
05/03/2011	1.411	3.2546	1.677	1.6239	2.635	2.804	0
06/03/2011	1.409	3.26296	1.688	1.63196	2.668	2.823	0.201
07/03/2011	1.430	3.26254	1.696	1.63844	2.675	2.826	0
08/03/2011	1.402	3.26041	1.695	1.642	2.641	2.802	0
09/03/2011	1.4734	3.3329	1.7612	1.697	2.6124	2.8873	0.603
10/03/2011	1.4897	3.3388	1.7678	1.7096	2.6087	2.9474	0.201
11/03/2011	1.4918	3.3368	1.7785	1.7177	2.6404	2.9352	0.402
12/03/2011	1.4897	3.3402	1.7702	1.7259	2.5947	3.0296	0.603
13/03/2011	1.401	3.336	1.7428	1.7425	2.6659	3.0396	0
14/03/2011	1.4451	3.3511	1.7827	1.7563	2.747	2.9292	4.824
15/03/2011	1.442	3.3499	1.7915	1.7591	2.7107	2.9293	0
16/03/2011	1.4469	3.3521	1.8011	1.7664	2.7068	2.9302	0
17/03/2011	1.4549	3.3617	1.8043	1.7791	2.7159	2.9195	0

Date	Groundwater Depth (m below ground level)						Rainfall (mm)
	F1	P	N1	AB	AE	AF	
18/03/2011	1.4585	3.3692	1.8132	1.7891	2.7473	2.852	0
19/03/2011	1.463	3.3701	1.8251	1.7974	2.7725	2.7705	0
20/03/2011	1.4358	3.3706	1.8245	1.8017	2.7356	2.7839	0
21/03/2011	1.4516	3.3804	1.8382	1.814	2.7636	2.757	1.206
22/03/2011	1.4927	3.3854	1.85	1.822	2.7844	2.712	0
23/03/2011	1.5079	3.3868	1.857	1.8296	2.7681	2.6885	0
24/03/2011	1.492	3.3868	1.8582	1.8307	2.7202	2.7267	0
25/03/2011	1.4729	3.3846	1.8479	1.8359	2.6792	2.8401	0
26/03/2011	1.4641	3.3837	1.8434	1.8372	2.7022	2.8947	0
27/03/2011	1.4628	3.3876	1.8526	1.8457	2.7255	2.9166	0
28/03/2011	1.4615	3.3918	1.8611	1.8534	2.7483	2.9157	0
29/03/2011	1.453	3.3946	1.8621	1.8612	2.7302	2.9575	0
30/03/2011	1.3912	3.3822	1.8588	1.861	2.7228	2.9555	0
31/03/2011	1.4278	3.3869	1.814	1.8767	2.774	2.9534	2.814
01/04/2011	1.5257	3.3828	1.8391	1.8791	2.7843	2.9699	3.015
02/04/2011	1.5793	3.3901	1.8459	1.887	2.7789	2.956	0.201
03/04/2011	1.6108	3.3948	1.8555	1.8944	2.8042	2.9709	0
04/04/2011	1.5832	3.3859	1.8473	1.8899	2.8067	2.9885	1.407
05/04/2011	1.6286	3.3978	1.8592	1.9036	2.8233	2.9762	1.608
06/04/2011	1.6524	3.4001	1.8752	1.9111	2.8518	3.0071	0
07/04/2011	1.6677	3.4009	1.8805	1.9151	2.8775	3.0191	0
08/04/2011	1.6675	3.4033	1.8849	1.9226	2.8438	3.0297	0
09/04/2011	1.6653	3.4033	1.8856	1.9269	2.8185	3.0081	0
10/04/2011	1.6745	3.4063	1.8875	1.9318	2.8222	2.9958	0
11/04/2011	1.6577	3.4052	1.8857	1.9342	2.8146	2.9952	0
12/04/2011	1.6602	3.411	1.8914	1.9423	2.859	3.0031	1.005
13/04/2011	1.6558	3.404	1.8815	1.9414	2.7799	3.0084	1.005
14/04/2011	1.6699	3.4081	1.8878	1.9473	2.7984	2.9676	0
15/04/2011	1.6764	3.4113	1.8967	1.9553	2.8188	2.9817	0
16/04/2011	1.6878	3.416	1.9045	1.9628	2.8437	2.994	0
17/04/2011	1.6913	3.4189	1.9093	1.9681	2.8491	3.0085	0
18/04/2011	1.6755	3.4168	1.9083	1.9715	2.7984	3.0071	0
19/04/2011	1.6677	3.4234	1.9117	1.9784	2.8089	2.9725	0
20/04/2011	1.6869	3.4251	1.9152	1.9858	2.8219	2.9857	0
21/04/2011	1.6897	3.4249	1.9182	1.9915	2.8172	2.9928	0
22/04/2011	1.6895	3.4296	1.9195	1.9986	2.8016	2.9834	0
23/04/2011	1.4951	3.4241	1.8496	2.0018	2.8513	2.9814	0
24/04/2011	1.497	3.4242	1.8723	2.0081	2.8794	3.0097	5.025
25/04/2011	1.4938	3.4306	1.889	2.0138	2.8843	3.0242	0
26/04/2011	1.4847	3.426	1.895	2.0147	2.8729	3.0274	0
27/04/2011	1.4819	3.4306	1.9047	2.021	2.8565	3.0183	0
28/04/2011	1.4684	3.432	1.9071	2.0253	2.8231	3.0099	0
29/04/2011	1.4617	3.4333	1.9099	2.032	2.8046	2.9795	0
30/04/2011	1.4662	3.4348	1.9091	2.0419	2.8164	2.9735	0
01/05/2011	1.4716	3.4338	1.9115	2.0445	2.8302	2.9789	0
02/05/2011	1.4789	3.4265	1.9181	2.0514	2.8477	2.9869	0
03/05/2011	1.4875	3.4369	1.9229	2.0573	2.8679	2.9995	0
04/05/2011	1.4931	3.44	1.9271	2.0601	2.8711	3.0107	0
05/05/2011	1.4888	3.4415	1.9304	2.063	2.8472	3.0042	0
06/05/2011	1.4719	3.444	1.9341	2.0698	2.8469	2.98	0
07/05/2011	1.3277	3.4336	1.8656	2.0725	2.8268	2.985	1.407

Date	Groundwater Depth (m below ground level)						Rainfall (mm)
	F1	P	N1	AB	AE	AF	
08/05/2011	1.2307	3.4248	1.7798	2.0777	2.8514	2.9731	6.834
09/05/2011	1.27	3.4228	1.8102	2.084	2.8782	3.0015	5.226
10/05/2011	1.2731	3.4222	1.8205	2.0875	2.89	3.0126	2.613
11/05/2011	1.2994	3.4246	1.8231	2.084	2.8539	3.0137	1.005
12/05/2011	1.3083	3.4216	1.8113	2.0807	2.8445	2.9927	0
13/05/2011	1.3232	3.3607	1.7951	2.0603	2.7697	2.8951	0.201
14/05/2011	1.3335	3.3596	1.7814	2.0604	2.7566	2.898	0
15/05/2011	1.3004	3.366	1.7927	2.0678	2.7961	2.9168	1.206
16/05/2011	1.3174	3.3719	1.8039	2.0759	2.7786	2.9061	2.412
17/05/2011	1.3255	3.373	1.8036	2.079	2.7602	2.8964	0.603
18/05/2011	1.3337	3.3741	1.8053	2.0838	2.7381	2.885	0.201
19/05/2011	1.3348	3.3759	1.8058	2.0849	2.7745	2.9068	1.608
20/05/2011	1.3512	3.3766	1.8115	2.092	2.7692	2.9057	0
21/05/2011	1.3727	3.3775	1.8199	2.0938	2.7905	2.9052	0
22/05/2011	1.3403	3.3751	1.811	2.0984	2.7313	2.8955	0
23/05/2011	1.3499	3.3817	1.8212	2.1055	2.7997	2.9153	2.211
24/05/2011	1.3513	3.3853	1.8153	2.1081	2.8085	2.9398	1.206
25/05/2011	1.3832	3.3831	1.8254	2.1128	2.8296	2.9217	0
26/05/2011	1.3467	3.3806	1.8124	2.1156	2.7068	2.8671	0
27/05/2011	1.2597	3.3801	1.7738	2.1209	2.7921	2.9207	5.226
28/05/2011	1.2473	3.3773	1.7639	2.124	2.7558	2.8921	2.01
29/05/2011	1.2765	3.3854	1.7761	2.1299	2.739	2.889	0.201
30/05/2011	1.3197	3.3885	1.7801	2.1355	2.7728	2.9069	0
31/05/2011	1.1338	3.3717	1.6745	2.1326	2.7802	2.9248	6.231
01/06/2011	1.2968	3.3793	1.7359	2.1369	2.8311	2.9456	3.417
02/06/2011	1.4115	3.3889	1.7579	2.1456	2.8447	2.9535	0.201
03/06/2011	1.4956	3.3883	1.7633	2.1472	2.8319	2.9369	0
04/06/2011	1.5346	3.3895	1.757	2.1507	2.7857	2.9034	0
05/06/2011	1.4962	3.3848	1.7451	2.1516	2.7463	2.8687	0
06/06/2011	1.43	3.3792	1.7214	2.1544	2.7006	2.8537	2.412
07/06/2011	1.5058	3.3813	1.7239	2.1549	2.7003	2.85	0.804
08/06/2011	1.5391	3.3858	1.7268	2.1572	2.7136	2.8667	0
09/06/2011	1.6045	3.3925	1.7437	2.1628	2.7801	2.9142	1.005
10/06/2011	1.6316	3.3895	1.7513	2.1631	2.7946	2.9176	0
11/06/2011	1.6334	3.3915	1.7521	2.1657	2.7896	2.9189	0.201
12/06/2011	1.5821	3.3874	1.7554	2.1668	2.7892	2.8956	0
13/06/2011	1.2225	3.3712	1.6461	2.1718	2.7172	2.8942	7.236
14/06/2011	1.3075	3.3794	1.7092	2.1718	2.8015	2.9188	2.211
15/06/2011	1.3152	3.3839	1.7286	2.1773	2.7598	2.888	0.201
16/06/2011	1.3046	3.383	1.7325	2.1774	2.743	2.8821	0.603
17/06/2011	1.2712	3.3814	1.736	2.1785	2.7481	2.8684	2.211
18/06/2011	1.2354	3.3774	1.7291	2.1791	2.6983	2.8588	1.2
19/06/2011	1.2241	3.3846	1.7245	2.1819	2.7707	2.9131	0.8
20/06/2011	1.2274	3.3839	1.7203	2.1828	2.7842	2.9054	0
21/06/2011	1.1222	3.3841	1.6965	2.1876	2.737	2.8856	4
22/06/2011	1.1353	3.3802	1.6989	2.1858	2.7304	2.8861	1.2
23/06/2011	1.1101	3.3801	1.6771	2.1841	2.7631	2.913	4
24/06/2011	1.1526	3.3816	1.6946	2.1794	2.8004	2.9257	0
25/06/2011	0.9898	3.3525	1.5875	2.1782	2.7363	2.8961	4.6
26/06/2011	1.0572	3.3625	1.643	2.1729	2.7629	2.8951	1.2
27/06/2011	1.0996	3.3633	1.6696	2.1721	2.723	2.8706	0

Date	Groundwater Depth (m below ground level)						Rainfall (mm)
	F1	P	N1	AB	AE	AF	
28/06/2011	1.1256	3.3642	1.6833	2.1689	2.7519	2.8883	0
29/06/2011	1.1799	3.3635	1.695	2.1664	2.7696	2.905	0
30/06/2011	1.2299	3.3669	1.7091	2.1661	2.7849	2.9156	0
01/07/2011	1.2738	3.37	1.7208	2.1711	2.7919	2.9163	0
02/07/2011	1.2896	3.3704	1.7227	2.1701	2.7631	2.8913	0
03/07/2011	1.3032	3.3767	1.7285	2.1779	2.75	2.8919	0
04/07/2011	1.3239	3.3801	1.736	2.1816	2.7624	2.8964	0
05/07/2011	1.3316	3.3817	1.7395	2.1862	2.7485	2.8833	0
06/07/2011	1.2954	3.3726	1.7323	2.1875	2.7129	2.8664	8
07/07/2011	1.2263	3.3704	1.7073	2.1884	2.6958	2.8649	4.4
08/07/2011	1.2502	3.3775	1.7138	2.1929	2.7387	2.8803	6
09/07/2011	1.2329	3.3741	1.7279	2.1955	2.7716	2.9149	2.6
10/07/2011	1.2217	3.3798	1.7389	2.1955	2.8229	2.9402	0
11/07/2011	1.2209	3.3812	1.7474	2.1962	2.8296	2.9438	0
12/07/2011	1.2518	3.3847	1.7515	2.201	2.8204	2.9361	0
13/07/2011	1.2835	3.3872	1.7546	2.2042	2.8161	2.9331	0
14/07/2011	1.3172	3.389	1.7556	2.2068	2.8093	2.9282	0
15/07/2011	1.3382	3.3912	1.7548	2.21	2.7993	2.9169	0
16/07/2011	1.3328	3.387	1.7438	2.2153	2.7301	2.8638	0.6
17/07/2011	1.2629	3.3851	1.7286	2.2168	2.7003	2.8619	4.8
18/07/2011	0.9101	3.3509	1.3904	2.2132	2.7197	2.884	5.6
19/07/2011	0.929	3.347	1.4402	2.2044	2.7394	2.9021	3
20/07/2011	1.0244	3.3471	1.5898	2.1936	2.7706	2.9137	1.2
21/07/2011	1.1199	3.3502	1.6292	2.1906	2.782	2.9242	1.2
22/07/2011	1.1828	3.355	1.654	2.19	2.8043	2.9287	0.2
23/07/2011	1.0747	3.3366	1.4535	2.1815	2.761	2.9009	0.4
24/07/2011	1.103	3.339	1.6005	2.1813	2.7319	2.8867	0.4
25/07/2011	1.1377	3.3404	1.6287	2.1824	2.7285	2.8869	0.4
26/07/2011	1.1876	3.3492	1.6585	2.1878	2.7639	2.9138	0.2
27/07/2011	1.232	3.3555	1.6811	2.1934	2.8058	2.9365	0.2
28/07/2011	1.2591	3.3569	1.695	2.1941	2.8017	2.9388	0
29/07/2011	1.2876	3.3613	1.7074	2.2001	2.8054	2.9367	0
30/07/2011	1.298	3.3616	1.7111	2.2012	2.7927	2.9243	0
31/07/2011	1.3014	3.3644	1.7102	2.206	2.7565	2.9011	0
01/08/2011	1.3178	3.3718	1.7153	2.2131	2.7601	2.9057	0
02/08/2011	1.3308	3.3748	1.7167	2.2141	2.7742	2.9189	2.2
03/08/2011	1.3417	3.3764	1.723	2.2193	2.7958	2.926	1.2
04/08/2011	1.3468	3.3774	1.7241	2.2229	2.7726	2.9126	0
05/08/2011	1.2392	3.3744	1.6502	2.2256	2.7867	2.9371	1.2
06/08/2011	1.2684	3.3695	1.6793	2.2264	2.766	2.9122	0.2
07/08/2011	1.2849	3.3755	1.6859	2.2278	2.7407	2.9079	0.6
08/08/2011	1.2597	3.3751	1.6288	2.2295	2.7726	2.9382	4.2
09/08/2011	1.2939	3.384	1.676	2.2354	2.8613	2.9955	0.2
10/08/2011	1.3228	3.3805	1.707	2.2321	2.8556	2.9641	0.2
11/08/2011	1.0916	3.3636	1.4788	2.2379	2.7542	2.9099	5.2
12/08/2011	1.1301	3.3674	1.6066	2.2367	2.7707	2.9187	1.8
13/08/2011	1.1451	3.3653	1.6345	2.2369	2.734	2.8971	1.4
14/08/2011	1.1897	3.3709	1.6512	2.2376	2.752	2.913	0
15/08/2011	1.2472	3.3751	1.672	2.238	2.8018	2.9427	1
16/08/2011	1.2632	3.3739	1.6921	2.242	2.7949	2.9394	1.8
17/08/2011	1.2684	3.379	1.703	2.2427	2.8119	2.9507	0.4

Date	Groundwater Depth (m below ground level)						Rainfall (mm)
	F1	P	N1	AB	AE	AF	
18/08/2011	1.2932	3.3802	1.7126	2.2425	2.8021	2.9376	0
19/08/2011	1.3791	3.3772	1.6201	2.2999	2.7801	2.9363	0
20/08/2011	1.3908	3.3822	1.6255	2.3045	2.7784	2.9316	0
21/08/2011	1.3842	3.3814	1.6273	2.3057	2.7579	2.9257	0
22/08/2011	1.41	3.3881	1.6393	2.3086	2.8098	2.9562	0.6
23/08/2011	1.4144	3.3895	1.6461	2.3142	2.793	2.9352	0
24/08/2011	1.4268	3.3891	1.6433	2.3146	2.7681	2.9273	0
25/08/2011	1.4369	3.3824	1.6436	2.3164	2.7681	2.9304	0.4
26/08/2011	1.3909	3.3819	1.6357	2.3168	2.7591	2.9201	1.2
27/08/2011	1.2814	3.3705	1.3241	2.3206	2.7763	2.9422	12.4
28/08/2011	1.065	3.3498	1.2518	2.3104	2.7374	2.9294	9.4
29/08/2011	1.1196	3.3477	1.4536	2.3053	2.7421	2.9251	0.2
30/08/2011	1.1532	3.3477	1.4854	2.3039	2.7403	2.9181	1.2
31/08/2011	1.2042	3.3481	1.507	2.3032	2.7343	2.9086	0.4
01/09/2011	1.2469	3.3523	1.522	2.3057	2.7369	2.9031	0
02/09/2011	1.268	3.3536	1.5301	2.3068	2.717	2.8964	0
03/09/2011	1.2961	3.3562	1.5428	2.3117	2.715	2.891	0
04/09/2011	1.3196	3.364	1.5476	2.3129	2.722	2.8928	6.8
05/09/2011	1.334	3.3619	1.559	2.3118	2.7207	2.9091	0.8
06/09/2011	1.3257	3.3598	1.5734	2.3139	2.7259	2.9073	3.2
07/09/2011	1.3333	3.3718	1.5841	2.3173	2.7641	2.9291	0.4
08/09/2011	1.3283	3.3685	1.5959	2.3199	2.7599	2.9255	1.2
09/09/2011	1.3477	3.374	1.6066	2.3257	2.7712	2.9351	0.2
10/09/2011	1.3233	3.3745	1.6122	2.3293	2.7533	2.9091	0
11/09/2011	1.3311	3.3783	1.6123	2.3284	2.7474	2.918	0.4
12/09/2011	1.3214	3.3733	1.6181	2.3309	2.7359	2.9224	1.4
13/09/2011	1.3423	3.3858	1.6321	2.3324	2.8283	2.9665	2.6
14/09/2011	1.3686	3.3901	1.6405	2.3326	2.8497	2.9868	1
15/09/2011	1.3951	3.3901	1.6494	2.3361	2.8654	2.9923	0
16/09/2011	1.4028	3.3909	1.6478	2.3385	2.832	2.9509	0
17/09/2011	1.308	3.3828	1.6052	2.3416	2.7692	2.9182	4.2
18/09/2011	1.2369	3.3759	1.4581	2.3377	2.7609	2.9253	1.4
19/09/2011	1.2773	3.3871	1.565	2.3431	2.8152	2.9527	1.4
20/09/2011	1.0396	3.3903	1.5925	2.3429	2.825	2.9606	0
21/09/2011	1.1054	3.3705	1.4426	2.3384	2.8111	2.9544	0
22/09/2011	1.1892	3.3744	1.5168	2.3406	2.8096	2.9362	0.603
23/09/2011	1.2102	3.3764	1.5475	2.3403	2.8117	2.9475	0
24/09/2011	1.2449	3.3787	1.5544	2.342	2.7818	2.9256	0
25/09/2011	1.2825	3.3828	1.5671	2.3441	2.7973	2.9201	0.201
26/09/2011	1.3427	3.39	1.5844	2.3476	2.8175	2.9259	0.402
27/09/2011	1.3599	3.3915	1.6046	2.3463	2.865	2.9734	0
28/09/2011	1.3705	3.3963	1.616	2.3523	2.853	2.9741	0
29/09/2011	1.3831	3.3965	1.6174	2.3539	2.8333	2.9575	0
30/09/2011	1.3955	3.3991	1.6213	2.3565	2.8295	2.9524	0
01/10/2011	1.4117	3.3997	1.6269	2.3581	2.8472	2.956	0
02/10/2011	1.4204	3.4001	1.6328	2.3591	2.8522	2.9664	0
03/10/2011	1.4077	3.401	1.6328	2.3623	2.8253	2.9498	0
04/10/2011	1.438	3.4025	1.6346	2.3609	2.8429	2.9319	0.603
05/10/2011	1.4331	3.4003	1.6333	2.3644	2.821	2.9503	0
06/10/2011	1.3867	3.3993	1.624	2.3628	2.7957	2.927	0
07/10/2011	1.239	3.3815	1.2906	2.3627	2.8339	2.9479	3.216

Date	Groundwater Depth (m below ground level)						Rainfall (mm)
	F1	P	N1	AB	AE	AF	
08/10/2011	1.1508	3.3693	1.3664	2.3624	2.8381	2.9703	15.477
09/10/2011	1.0249	3.3565	1.1511	2.3638	2.7806	2.9342	2.211
10/10/2011	1.0877	3.3504	1.3792	2.3529	2.7529	2.9007	9.447
11/10/2011	1.1504	3.3547	1.4658	2.354	2.7692	2.901	0
12/10/2011	1.1736	3.3546	1.5045	2.349	2.7987	2.9214	0.804
13/10/2011	1.2083	3.355	1.5355	2.3454	2.839	2.9433	0.603
14/10/2011	1.2215	3.3521	1.5552	2.346	2.8427	2.9613	0
15/10/2011	1.2419	3.3464	1.5552	2.3404	2.8111	2.9384	0
16/10/2011	1.2776	3.3433	1.5586	2.3406	2.7885	2.9196	0
17/10/2011	1.2448	3.3465	1.5696	2.3438	2.7882	2.9196	0
18/10/2011	1.1931	3.3329	1.5134	2.3407	2.7422	2.8878	2.01
19/10/2011	1.2217	3.3382	1.5512	2.3424	2.8007	2.9019	2.814
20/10/2011	1.1933	3.3263	1.4797	2.339	2.8514	2.9522	4.623
21/10/2011	1.1954	3.3252	1.5179	2.3408	2.8068	2.9459	1.206
22/10/2011	1.1963	3.3277	1.5457	2.3412	2.785	2.9187	0
23/10/2011	1.2252	3.3293	1.5502	2.3423	2.7416	2.882	0
24/10/2011	1.2383	3.3324	1.5559	2.3449	2.7208	2.8717	0
25/10/2011	1.2578	3.3319	1.5644	2.3437	2.7386	2.8709	0
26/10/2011	1.2858	3.3313	1.5799	2.343	2.8008	2.9122	1.005
27/10/2011	1.2667	3.3308	1.595	2.3438	2.8345	2.9386	0.201
28/10/2011	1.2113	3.3269	1.5171	2.3462	2.8885	2.9676	3.417
29/10/2011	1.2101	3.3204	1.5623	2.3403	2.8547	2.9744	1.407
30/10/2011	1.2532	3.3299	1.5711	2.3433	2.8206	2.9351	0
31/10/2011	1.2511	3.3323	1.5864	2.3464	2.8121	2.9358	0.201
01/11/2011	1.2451	3.3182	1.5826	2.3412	2.7853	2.9075	0.201
02/11/2011	1.1371	3.3056	1.4788	2.3334	2.7881	2.9185	7.236
03/11/2011	1.1365	3.3103	1.5101	2.3336	2.7197	2.8656	0
04/11/2011	1.0867	3.2977	1.4609	2.3272	2.7363	2.8622	3.417
05/11/2011	1.0316	3.2844	1.2081	2.3211	2.8075	2.9111	0.603
06/11/2011	1.1077	3.288	1.4546	2.3106	2.8679	2.9565	7.035
07/11/2011	1.1461	3.2818	1.5093	2.2962	2.8508	2.9683	0
08/11/2011	1.1536	3.2865	1.5264	2.3017	2.7831	2.9175	0
09/11/2011	1.1793	3.288	1.5342	2.2978	2.7764	2.9004	0.402
10/11/2011	1.193	3.2955	1.5508	2.3001	2.8042	2.9128	0
11/11/2011	1.2276	3.2923	1.5572	2.2945	2.7987	2.9202	0.201
12/11/2011	1.1433	3.2615	1.1815	2.2924	2.8066	2.914	0
13/11/2011	1.1146	3.2731	1.4619	2.2836	2.8263	2.9448	11.055
14/11/2011	1.1204	3.2737	1.5091	2.2761	2.7887	2.9155	0
15/11/2011	1.1412	3.2744	1.5321	2.2726	2.768	2.8926	0
16/11/2011	1.1393	3.294	1.5259	2.2671	2.7014	2.871	0
17/11/2011	1.1572	3.2951	1.5332	2.2653	2.6983	2.8643	0
18/11/2011	1.1863	3.3024	1.5455	2.2667	2.7113	2.8736	0
19/11/2011	1.21	3.3067	1.5543	2.2677	2.7231	2.8813	0
20/11/2011	1.2317	3.3062	1.5633	2.2617	2.7439	2.8956	0
21/11/2011	1.2328	3.3104	1.5661	2.2656	2.7232	2.8893	0
22/11/2011	1.2276	3.3118	1.5683	2.2682	2.7348	2.8915	0.201
23/11/2011	1.2384	3.3099	1.5758	2.2632	2.7774	2.9207	2.01
24/11/2011	1.2549	3.3217	1.5929	2.2718	2.7798	2.9289	0
25/11/2011	1.2381	3.3264	1.5836	2.2586	2.7368	2.9047	0
26/11/2011	1.1791	3.3147	1.5262	2.2657	2.7713	2.9259	5.628
27/11/2011	1.1629	3.3169	1.5391	2.2703	2.6982	2.8912	0

Date	Groundwater Depth (m below ground level)						Rainfall (mm)
	F1	P	N1	AB	AE	AF	
28/11/2011	1.2206	3.3203	1.5682	2.2629	2.7855	2.9347	0
29/11/2011	1.1881	3.3259	1.5576	2.2726	2.6891	2.8794	0
30/11/2011	1.2059	3.3174	1.4589	2.2639	2.7647	2.8559	0.402
01/12/2011	1.1733	3.3258	1.5017	2.2633	2.6741	2.8867	0.804
02/12/2011	1.1896	3.3146	1.4858	2.2604	2.7279	2.8956	0.402
03/12/2011	1.1861	3.3137	1.5032	2.267	2.6631	2.8681	0.201
04/12/2011	1.1963	3.3167	1.5077	2.2619	2.7064	2.8701	0
05/12/2011	1.2064	3.3177	1.5232	2.2602	2.7198	2.8675	0.201
06/12/2011	1.2199	3.3194	1.5303	2.2622	2.7277	2.8898	0
07/12/2011	1.2191	3.3242	1.534	2.26	2.7016	2.8805	0
08/12/2011	1.2379	3.3141	1.5066	2.2593	2.7815	2.9152	0.201
09/12/2011	1.1851	3.3158	1.4811	2.2592	2.7315	2.8701	0
10/12/2011	1.2065	3.3144	1.5173	2.2559	2.76	2.8998	0
11/12/2011	1.1995	3.3169	1.5162	2.2588	2.7268	2.8941	0
12/12/2011	1.1562	3.3115	1.4353	2.2523	2.6949	2.8566	0.201
13/12/2011	1.0923	3.3009	1.3431	2.2487	2.5963	2.8189	0
14/12/2011	1.0567	3.2932	1.371	2.2405	2.65	2.8225	0
15/12/2011	1.0685	3.2886	1.4209	2.2325	2.6481	2.8295	0.804
16/12/2011	1.0377	3.2797	1.4428	2.217	2.6466	2.8207	5.025
17/12/2011	1.0348	3.2752	1.2782	2.2036	2.7544	2.8878	15.276
18/12/2011	0.7608	3.2421	1.2189	2.1614	2.7145	2.8628	5.829
19/12/2011	0.8777	3.2296	1.2923	2.1313	2.6627	2.7982	8.442
20/12/2011	0.7862	3.2223	1.201	2.1042	2.613	2.7996	1.407
21/12/2011	0.8358	3.2121	1.2254	2.064	2.5951	2.7898	3.618
22/12/2011	0.8614	3.2176	1.3364	2.0419	2.6428	2.8023	0
23/12/2011	0.9025	3.2153	1.3982	2.0164	2.5772	2.7496	10.854
24/12/2011	0.8231	3.1887	1.1694	1.9814	2.5715	2.7271	0.603
25/12/2011	0.864	3.1891	1.3154	1.9564	2.4965	2.6636	0.804
26/12/2011	0.9146	3.1974	1.4162	1.9472	2.5265	2.6579	0
27/12/2011	0.9378	3.1986	1.4642	1.9323	2.5271	2.6341	0
28/12/2011	0.9048	3.1875	1.4761	1.9126	2.4467	2.5971	0
29/12/2011	0.9798	3.1982	1.5015	1.9126	2.5259	2.6132	1.809
30/12/2011	0.9393	3.1974	1.4925	1.9094	2.5122	2.6034	5.226
31/12/2011	0.803	3.1906	1.2399	1.9041	2.4582	2.5872	3.015
01/01/2012	0.8488	3.1946	1.3918	1.9007	2.4542	2.5847	2.211
02/01/2012	0.8653	3.1886	1.381	1.8913	2.4685	2.6259	2.613
03/01/2012	0.8473	3.1767	1.3465	1.8783	2.4409	2.6274	9.849
04/01/2012	0.8407	3.1772	1.2562	1.877	2.5171	2.6475	0.201
05/01/2012	0.7898	3.1623	1.1738	1.8547	2.3818	2.6318	7.437
06/01/2012	0.8644	3.1683	1.2544	1.8419	2.5354	2.688	0.402
07/01/2012	0.8408	3.1664	1.3044	1.8256	2.4695	2.6769	1.407
08/01/2012	0.8865	3.1722	1.4147	1.8171	2.5189	2.7027	1.206
09/01/2012	0.8967	3.1758	1.4613	1.8089	2.534	2.7233	1.206
10/01/2012	0.9028	3.1794	1.4817	1.8056	2.5617	2.7324	0
11/01/2012	0.9249	3.1871	1.4956	1.8061	2.5574	2.731	1.809
12/01/2012	0.8968	3.185	1.4844	1.8038	2.5259	2.7209	0.201
13/01/2012	0.9518	3.1924	1.5067	1.8062	2.5869	2.744	0
14/01/2012	0.9566	3.1873	1.5018	1.7987	2.5661	2.7243	0
15/01/2012	0.9762	3.1916	1.5147	1.8035	2.5414	2.7161	0
16/01/2012	1.0055	3.2	1.5263	1.8124	2.5629	2.7334	0
17/01/2012	1.0277	3.2066	1.5336	1.8194	2.5864	2.7487	0

Date	Groundwater Depth (m below ground level)						Rainfall (mm)
	F1	P	N1	AB	AE	AF	
18/01/2012	1.0305	3.2113	1.5408	1.8267	2.5672	2.752	0.603
19/01/2012	1.0363	3.2213	1.5275	1.8378	2.5775	2.7574	3.015
20/01/2012	0.9887	3.2191	1.4353	1.8486	2.5932	2.7716	12.462
21/01/2012	0.7584	3.1933	1.227	1.8328	2.4967	2.7257	0.804
22/01/2012	0.8671	3.1975	1.3761	1.824	2.5053	2.7346	0.201
23/01/2012	0.9238	3.2051	1.4354	1.8216	2.5491	2.7526	0
24/01/2012	0.9457	3.2067	1.4722	1.8145	2.5712	2.7544	6.834
25/01/2012	0.851	3.2002	1.3202	1.8083	2.5237	2.7304	0.201
26/01/2012	0.8456	3.1936	1.3189	1.7968	2.4632	2.7035	3.819
27/01/2012	0.8919	3.2007	1.3832	1.7997	2.5357	2.7541	1.407
28/01/2012	0.892	3.1902	1.2219	1.7933	2.5957	2.7919	4.824
29/01/2012	0.8933	3.1816	1.3859	1.7705	2.5729	2.7567	0
30/01/2012	0.9047	3.1868	1.4532	1.7659	2.5431	2.7411	0
31/01/2012	0.924	3.1871	1.478	1.7588	2.5357	2.7473	0
01/02/2012	0.9769	3.1971	1.5048	1.7611	2.5989	2.7829	0
02/02/2012	0.9992	3.1989	1.5239	1.7606	2.6134	2.7881	0
03/02/2012	1.0152	3.2081	1.5364	1.7647	2.6173	2.7913	0
04/02/2012	1.0202	3.2094	1.5476	1.7629	2.608	2.7691	0
05/02/2012	0.9733	3.208	1.3324	1.7698	2.5355	2.7566	6.231
06/02/2012	0.9564	3.2098	1.3363	1.7768	2.5945	2.786	4.824
07/02/2012	0.8903	3.2138	1.4068	1.7714	2.619	2.8033	0.804
08/02/2012	0.8961	3.2184	1.4776	1.7674	2.6211	2.7919	0
09/02/2012	0.8976	3.2239	1.52	1.767	2.5882	2.7688	0.603
10/02/2012	0.7705	3.2195	1.2481	1.7674	2.5636	2.7648	5.628
11/02/2012	0.8476	3.2245	1.4129	1.7625	2.5574	2.7614	0
12/02/2012	0.9007	3.2342	1.4888	1.7627	2.564	2.7611	0.201
13/02/2012	0.9168	3.2408	1.4905	1.762	2.5536	2.7442	0.201
14/02/2012	0.9356	3.2483	1.491	1.7649	2.5507	2.7513	0
15/02/2012	0.955	3.2559	1.5212	1.7673	2.5547	2.7644	0
16/02/2012	0.9827	3.262	1.5422	1.773	2.5813	2.7686	0
17/02/2012	0.9633	3.2552	1.6445	1.7445	2.5998	2.7569	2.412
18/02/2012	0.9023	3.2529	1.6525	1.7407	2.5444	2.7284	1.809
19/02/2012	0.8579	3.2593	1.6396	1.7533	2.62	2.799	3.216
20/02/2012	0.8986	3.2595	1.6213	1.7535	2.6672	2.7958	0.402
21/02/2012	0.9192	3.2677	1.6533	1.7574	2.628	2.7839	0.402
22/02/2012	0.9361	3.2738	1.6679	1.7582	2.6171	2.7561	0.402
23/02/2012	0.9611	3.2801	1.6769	1.7693	2.6309	2.7941	0
24/02/2012	0.9837	3.2837	1.6886	1.7722	2.6592	2.8123	0.603
25/02/2012	0.9927	3.2799	1.6903	1.7717	2.6783	2.8087	0
26/02/2012	1.0092	3.287	1.6956	1.7766	2.6705	2.8075	0
27/02/2012	1.0057	3.2902	1.7017	1.7806	2.6494	2.79	0.201
28/02/2012	1.021	3.2971	1.7086	1.7901	2.6584	2.8007	0.201
29/02/2012	1.0332	3.3012	1.7141	1.7948	2.6694	2.8089	0
01/03/2012	1.0409	3.2991	1.7114	1.7967	2.6751	2.8155	0
02/03/2012	1.0592	3.3015	1.7205	1.8045	2.6977	2.8191	0
03/03/2012	1.0287	3.2996	1.7086	1.8048	2.6328	2.7894	0.201
04/03/2012	1.0521	3.304	1.7074	1.8136	2.6602	2.8061	4.623
05/03/2012	1.0028	3.2979	1.6639	1.8207	2.696	2.8313	0.201
06/03/2012	1.0226	3.3011	1.6963	1.8256	2.6999	2.8253	0
07/03/2012	0.9922	3.2968	1.7015	1.8239	2.6227	2.7915	2.01
08/03/2012	1.0115	3.3026	1.7146	1.8392	2.7112	2.846	0

Date	Groundwater Depth (m below ground level)						Rainfall (mm)
	F1	P	N1	AB	AE	AF	
09/03/2012	1.035	3.3126	1.7361	1.8501	2.7289	2.8507	0
10/03/2012	1.0555	3.3199	1.746	1.8604	2.7406	2.8624	0
11/03/2012	1.0657	3.3214	1.7549	1.8632	2.745	2.8544	0
12/03/2012	1.0644	3.3236	1.759	1.8663	2.7245	2.8412	0
13/03/2012	1.0698	3.3271	1.7606	1.8713	2.7215	2.8463	0
14/03/2012	1.0711	3.3252	1.7564	1.873	2.7093	2.8328	0
15/03/2012	1.0653	3.321	1.7491	1.8719	2.6812	2.8168	0.402
16/03/2012	1.1947	3.3031	1.7785	2.032	2.655	2.8705	0
17/03/2012	1.1975	3.3052	1.7746	2.0404	2.6379	2.8675	2.211
18/03/2012	1.178	3.3125	1.7713	2.0484	2.6656	2.9069	4.221
19/03/2012	1.1311	3.3137	1.7306	2.0531	2.751	2.9459	0
20/03/2012	1.1631	3.3197	1.7543	2.0598	2.7457	2.9406	0
21/03/2012	1.1804	3.3258	1.7711	2.0694	2.7502	2.9391	0
22/03/2012	1.1719	3.3228	1.7723	2.0659	2.7243	2.9203	0
23/03/2012	1.1773	3.3285	1.7784	2.0757	2.701	2.9132	0
24/03/2012	1.1947	3.3304	1.7843	2.0803	2.7167	2.9208	0
25/03/2012	1.2095	3.3362	1.7981	2.0887	2.7482	2.9431	0
26/03/2012	1.2053	3.3375	1.8067	2.0917	2.7642	2.9459	0
27/03/2012	1.1894	3.3396	1.813	2.0951	2.7566	2.9412	0
28/03/2012	1.1748	3.3377	1.8165	2.0985	2.7399	2.927	0
29/03/2012	1.1758	3.3398	1.8192	2.1021	2.723	2.9203	0
30/03/2012	1.1858	3.345	1.826	2.1118	2.7215	2.9139	0
31/03/2012	1.1741	3.3442	1.8255	2.1135	2.6883	2.901	0
01/04/2012	1.2101	3.3429	1.8259	2.1144	2.7295	2.911	0
02/04/2012	1.1997	3.346	1.829	2.1192	2.6846	2.8827	0.402
03/04/2012	1.1845	3.347	1.8243	2.1244	2.6581	2.8685	3.417
04/04/2012	1.1713	3.348	1.8119	2.1303	2.6876	2.9143	2.412
05/04/2012	1.195	3.3493	1.7715	2.1388	2.7715	2.9461	0
06/04/2012	1.1961	3.3472	1.785	2.1357	2.7352	2.912	0
07/04/2012	1.1885	3.353	1.79	2.1448	2.6949	2.91	2.01
08/04/2012	1.1574	3.3536	1.7945	2.1507	2.7175	2.9156	1.407
09/04/2012	1.0581	3.3464	1.7786	2.1479	2.6543	2.8557	7.236
10/04/2012	0.801	3.3304	1.6412	2.1492	2.5835	2.8574	0
11/04/2012	0.9818	3.3365	1.7045	2.1547	2.6713	2.9082	1.608
12/04/2012	1.0294	3.3428	1.7321	2.1615	2.7176	2.9313	3.819
13/04/2012	0.9787	3.3344	1.6923	2.1593	2.7194	2.9262	0
14/04/2012	0.848	3.3349	1.6228	2.1648	2.7206	2.9388	3.618
15/04/2012	0.98	3.3398	1.682	2.1651	2.7657	2.965	0
16/04/2012	1.0484	3.3433	1.7183	2.1643	2.7803	2.9539	0
17/04/2012	0.9846	3.3324	1.7062	2.1506	2.6291	2.8645	3.216
18/04/2012	0.8751	3.3253	1.683	2.1528	2.5643	2.8273	3.015
19/04/2012	0.8307	3.3256	1.6218	2.1626	2.6116	2.8703	6.432
20/04/2012	0.669	3.3105	1.5525	2.1525	2.6319	2.8853	7.437
21/04/2012	0.8471	3.3092	1.631	2.14	2.6199	2.8815	1.608
22/04/2012	0.9272	3.3122	1.6608	2.1344	2.6522	2.8915	0.201
23/04/2012	0.9421	3.3107	1.6675	2.1255	2.6309	2.8664	1.005
24/04/2012	0.9722	3.3171	1.6796	2.1279	2.6491	2.8822	0
25/04/2012	0.9646	3.3086	1.6815	2.1171	2.6083	2.8315	0.804
26/04/2012	0.7243	3.3025	1.5686	2.1201	2.5763	2.862	4.824
27/04/2012	0.7408	3.2993	1.5402	2.1215	2.6732	2.916	4.623
28/04/2012	0.76	3.2915	1.5359	2.104	2.6424	2.8405	1.809

Date	Groundwater Depth (m below ground level)						Rainfall (mm)
	F1	P	N1	AB	AE	AF	
29/04/2012	0.8486	3.2865	1.6107	2.08	2.5708	2.7879	10.653
30/04/2012	0.5431	3.2436	1.4596	2.0373	2.4753	2.7424	0.402
01/05/2012	0.7737	3.2488	1.5978	2.0084	2.4084	2.6499	0
02/05/2012	0.886	3.248	1.6426	1.9901	2.465	2.7502	0.201
03/05/2012	0.8926	3.2464	1.6494	1.9755	2.4658	2.7865	0
04/05/2012	0.9069	3.2469	1.6521	1.9659	2.4593	2.8117	0
05/05/2012	0.9726	3.2517	1.6635	1.9626	2.531	2.8539	0
06/05/2012	1.0119	3.2562	1.6728	1.9619	2.5628	2.879	0
07/05/2012	1.0364	3.2591	1.683	1.9621	2.5832	2.8814	0.402
08/05/2012	0.846	3.2414	1.6196	1.9634	2.54	2.8701	9.045
09/05/2012	0.9118	3.2506	1.6385	1.971	2.5611	2.8856	0.201
10/05/2012	0.6391	3.2217	1.5609	1.9707	2.5183	2.8703	8.04
11/05/2012	0.7096	3.2299	1.5616	1.9718	2.5723	2.9236	6.231
12/05/2012	0.8367	3.2248	1.5927	1.9606	2.6619	2.9446	0
13/05/2012	0.8992	3.2252	1.619	1.949	2.6092	2.8857	0
14/05/2012	0.8868	3.2285	1.6265	1.9465	2.5119	2.8482	0.402
15/05/2012	0.913	3.2292	1.6393	1.9483	2.5394	2.8759	11.859
16/05/2012	0.7639	3.2039	1.5838	1.941	2.5889	2.8985	0
17/05/2012	0.8349	3.2079	1.6123	1.9334	2.5568	2.8615	1.206
18/05/2012	0.8333	3.2074	1.6188	1.9323	2.505	2.842	0
19/05/2012	0.8444	3.2082	1.6341	1.9359	2.5472	2.8733	2.814
20/05/2012	0.7586	3.2111	1.6047	1.9348	2.578	2.8801	0
21/05/2012	0.8545	3.2195	1.6208	1.9372	2.5718	2.8836	0
22/05/2012	0.9316	3.2298	1.6398	1.9458	2.6103	2.9086	0
23/05/2012	0.9889	3.239	1.669	1.9583	2.6593	2.9327	0
24/05/2012	1.0237	3.2429	1.6783	1.9654	2.6707	2.9318	0
25/05/2012	1.027	3.2447	1.6835	1.9729	2.6507	2.9189	0
26/05/2012	0.969	3.2413	1.6998	1.8136	2.6272	2.8658	0
27/05/2012	0.9602	3.2445	1.6989	1.8234	2.616	2.8603	0
28/05/2012	0.9714	3.2512	1.7027	1.836	2.617	2.8608	0
29/05/2012	0.9813	3.2562	1.7045	1.8452	2.6311	2.8654	0
30/05/2012	0.9911	3.2593	1.7068	1.8543	2.6273	2.8657	0
31/05/2012	1.0102	3.2646	1.7127	1.8637	2.6431	2.8753	1.809
01/06/2012	1.0178	3.2682	1.7162	1.8719	2.6443	2.8783	0.201
02/06/2012	1.029	3.2708	1.7192	1.8791	2.6368	2.8628	0.201
03/06/2012	0.8298	3.2557	1.6771	1.8787	2.5838	2.8417	5.427
04/06/2012	0.4413	3.2237	1.3459	1.8611	2.5913	2.8561	1.608
05/06/2012	0.7469	3.2302	1.5439	1.8584	2.5831	2.8272	0
06/06/2012	0.7937	3.2306	1.5735	1.8559	2.4882	2.7871	4.623
07/06/2012	0.7855	3.2312	1.5494	1.8633	2.5267	2.7902	4.422
08/06/2012	0.5554	3.2091	1.3619	1.8494	2.4369	2.7841	17.688
09/06/2012	0.4351	3.1717	1.2003	1.8242	2.511	2.8217	6.03
10/06/2012	0.5638	3.1695	1.41	1.7805	2.4865	2.7754	0
11/06/2012	0.7067	3.1754	1.5077	1.7678	2.4647	2.7692	0
12/06/2012	0.8012	3.1831	1.5485	1.7673	2.5156	2.7991	0
13/06/2012	0.8548	3.1901	1.5818	1.7678	2.5538	2.8148	3.819
14/06/2012	0.8273	3.1694	1.4482	1.7558	2.5398	2.797	0.402
15/06/2012	0.5337	3.1502	1.3078	1.7464	2.4608	2.7569	5.025
16/06/2012	0.51	3.1487	1.3861	1.738	2.4454	2.7559	1.407
17/06/2012	0.6467	3.1567	1.4241	1.7353	2.5265	2.8109	0.402
18/06/2012	0.7709	3.1636	1.525	1.7274	2.5384	2.8071	0.402

Date	Groundwater Depth (m below ground level)						Rainfall (mm)
	F1	P	N1	AB	AE	AF	
19/06/2012	0.7753	3.1705	1.558	1.7282	2.5458	2.808	0.201
20/06/2012	0.8006	3.1755	1.5842	1.7296	2.5571	2.8027	0.201
21/06/2012	0.8229	3.1779	1.5946	1.7286	2.5138	2.7717	0
22/06/2012	0.7406	3.1684	1.4956	1.7303	2.4868	2.7855	0.402
23/06/2012	0.5161	3.1544	1.3615	1.73	2.5519	2.8178	0.201
24/06/2012	0.4712	3.1318	1.3313	1.7161	2.4839	2.7865	0.402
25/06/2012	0.4757	3.1171	1.3944	1.6842	2.4779	2.7648	0.201
26/06/2012	0.6956	3.1309	1.5055	1.6748	2.4833	2.7525	0
27/06/2012	0.7397	3.1346	1.5331	1.6694	2.4842	2.7523	0.201
28/06/2012	0.7533	3.1395	1.5501	1.666	2.4524	2.7237	0.201
29/06/2012	0.7599	3.1471	1.5573	1.6682	2.4418	2.745	0
30/06/2012	0.7537	3.1538	1.5715	1.6792	2.5055	2.7828	0
01/07/2012	0.7758	3.1576	1.598	1.686	2.5454	2.8124	0
02/07/2012	0.8453	3.164	1.6158	1.6952	2.5564	2.8092	0.201
03/07/2012	0.759	3.1625	1.494	1.703	2.558	2.808	0.804
04/07/2012	0.876	3.171	1.2019	1.745	2.519	2.791	1.005
05/07/2012	0.535	3.1469	0.9454	1.751	2.528	2.802	9.447
06/07/2012	0.532	3.1013	0.9608	1.736	2.491	2.772	37.386
07/07/2012	0.534	2.9198	0.8833	1.586	2.303	2.555	0.402
08/07/2012	0.634	2.9464	1.0372	1.518	2.104	2.393	0.201
09/07/2012	0.600	2.9426	0.9762	1.496	2.252	2.620	4.02
10/07/2012	0.725	2.9754	1.0471	1.491	2.331	2.717	11.658
11/07/2012	0.556	2.9167	0.9478	1.448	2.271	2.622	0.804
12/07/2012	0.676	2.9605	1.06	1.436	2.233	2.582	0
13/07/2012	0.751	2.9858	1.1235	1.441	2.262	2.665	3.216
14/07/2012	0.555	2.9555	0.9798	1.448	2.331	2.742	0.402
15/07/2012	0.732	3.0107	1.1255	1.467	2.407	2.777	0
16/07/2012	0.858	3.046	1.1874	1.487	2.442	2.783	8.241
17/07/2012	0.590	2.8569	0.8929	1.473	2.424	2.772	5.628
18/07/2012	0.700	2.9594	1.0698	1.454	2.314	2.662	0
19/07/2012	0.703	2.9265	0.9783	1.458	2.322	2.712	0.804
20/07/2012	0.665	2.9637	1.0249	1.460	2.399	2.770	0.804
21/07/2012	0.823	3.0108	1.1344	1.476	2.448	2.790	0.201
22/07/2012	0.900	3.047	1.1744	1.499	2.470	2.799	0.201
23/07/2012	0.916	3.0706	1.2015	1.522	2.462	2.798	0
24/07/2012	0.940	3.0861	1.2177	1.545	2.471	2.801	0.201
25/07/2012	0.970	3.1017	1.2399	1.570	2.493	2.820	0.201
26/07/2012	1.004	3.114	1.2583	1.592	2.521	2.827	0
27/07/2012	1.013	3.1219	1.266	1.609	2.509	2.820	0
28/07/2012	1.019	3.1271	1.2678	1.627	2.506	2.812	0.201
29/07/2012	1.040	3.1376	1.275	1.646	2.513	2.826	0
30/07/2012	1.029	3.1283	1.1694	1.662	2.542	2.840	0
31/07/2012	1.040	3.1398	1.2487	1.679	2.549	2.835	0
01/08/2012	0.814	3.1224	1.0698	1.688	2.521	2.810	0
02/08/2012	0.880	3.1312	1.1002	1.702	2.527	2.827	0
03/08/2012	0.820	3.1336	1.1132	1.715	2.552	2.832	0.201
04/08/2012	0.914	3.1474	1.1731	1.727	2.542	2.825	0
05/08/2012	0.961	3.1567	1.1942	1.736	2.543	2.824	0
06/08/2012	1.006	3.1677	1.2268	1.748	2.552	2.840	0
07/08/2012	1.070	3.1765	1.2636	1.764	2.611	2.871	0
08/08/2012	1.083	3.1822	1.2874	1.774	2.630	2.877	0.201

Date	Groundwater Depth (m below ground level)						Rainfall (mm)
	F1	P	N1	AB	AE	AF	
09/08/2012	1.106	3.1903	1.3043	1.787	2.638	2.880	0
10/08/2012	1.114	3.1951	1.3149	1.799	2.639	2.873	0
11/08/2012	1.113	3.1996	1.3152	1.808	2.609	2.849	0
12/08/2012	1.109	3.2014	1.3132	1.817	2.566	2.831	0.201
13/08/2012	1.105	3.2059	1.3169	1.828	2.565	2.835	0
14/08/2012	1.132	3.2142	1.3246	1.839	2.590	2.855	0
15/08/2012	1.154	3.2194	1.3288	1.850	2.604	2.841	0
16/08/2012	1.007	3.2081	1.2262	1.856	2.595	2.865	0.201
17/08/2012	1.048	3.2151	1.2914	1.866	2.598	2.857	0
18/08/2012	1.047	3.2211	1.3279	1.873	2.605	2.865	0.201
19/08/2012	1.095	3.2282	1.3398	1.881	2.642	2.873	0
20/08/2012	1.107	3.2322	1.3454	1.887	2.642	2.880	0.201
21/08/2012	1.131	3.2346	1.3527	1.896	2.644	2.869	0
22/08/2012	1.074	3.2333	1.2889	1.900	2.614	2.860	0.201
23/08/2012	1.108	3.24	1.3201	1.910	2.623	2.863	0
24/08/2012	1.113	3.2406	1.3268	1.913	2.585	2.834	0.201
25/08/2012	1.071	3.2393	1.2694	1.922	2.557	2.831	0
26/08/2012	1.144	3.2524	1.3031	1.935	2.669	2.896	0.201
27/08/2012	1.135	3.2479	1.322	1.936	2.662	2.868	0
28/08/2012	1.047	3.2509	1.2709	1.944	2.622	2.872	0.201
29/08/2012	1.079	3.2549	1.3081	1.952	2.638	2.867	0
30/08/2012	1.016	3.2539	1.2059	1.956	2.626	2.894	0.201
31/08/2012	1.099	3.2572	1.2798	1.963	2.718	2.920	0
01/09/2012	1.021	3.2807	1.654	1.906	2.739	2.788	0.201
02/09/2012	1.044	3.2854	1.6625	1.916	2.720	2.790	0
03/09/2012	1.099	3.289	1.6815	1.920	2.759	2.799	0
04/09/2012	1.100	3.2928	1.6855	1.927	2.732	2.795	0
05/09/2012	1.135	3.2966	1.6958	1.933	2.766	2.814	0
06/09/2012	1.153	3.2971	1.7049	1.935	2.772	2.802	0
07/09/2012	1.147	3.3012	1.7066	1.944	2.743	2.795	0
08/09/2012	1.168	3.3033	1.7155	1.951	2.749	2.790	0
09/09/2012	1.149	3.2997	1.713	1.953	2.702	2.755	0
10/09/2012	1.162	3.3099	1.7173	1.963	2.701	2.770	0.201
11/09/2012	1.169	3.3057	1.564	1.968	2.738	2.803	4.221
12/09/2012	1.174	3.3035	1.6723	1.969	2.766	2.801	5.025
13/09/2012	1.098	3.3039	1.5464	1.977	2.792	2.818	0
14/09/2012	1.079	3.3014	1.6343	1.984	2.720	2.791	0.402
15/09/2012	1.136	3.3105	1.6681	1.990	2.781	2.813	0
16/09/2012	1.131	3.3064	1.68	1.994	2.747	2.788	0
17/09/2012	1.146	3.3082	1.6865	1.997	2.756	2.799	0.402
18/09/2012	1.160	3.3058	1.6972	2.003	2.752	2.810	1.608
19/09/2012	1.134	3.3087	1.5885	2.007	2.810	2.836	9.045
20/09/2012	0.837	3.291	1.4812	2.008	2.763	2.800	1.608
21/09/2012	0.829	3.2863	1.5101	2.007	2.729	2.787	1.608
22/09/2012	0.826	3.2866	1.4777	2.006	2.756	2.801	0.201
23/09/2012	0.931	3.2818	1.5522	2.005	2.726	2.761	0.201
24/09/2012	0.627	3.2532	1.2893	1.996	2.596	2.689	25.929
25/09/2012	0.450	3.1129	1.2191	1.854	2.381	2.422	6.03
26/09/2012	0.425	2.966	1.0611	1.773	1.984	2.028	8.844
27/09/2012	0.461	2.9639	1.211	1.685	1.882	1.916	1.206
28/09/2012	0.655	3.031	1.3788	1.634	2.028	2.201	1.206

Date	Groundwater Depth (m below ground level)						Rainfall (mm)
	F1	P	N1	AB	AE	AF	
29/09/2012	0.736	3.0756	1.3859	1.605	2.227	2.491	0.402
30/09/2012	0.787	3.1046	1.4806	1.588	2.332	2.596	0
01/10/2012	0.788	3.0986	1.3516	1.578	2.380	2.687	2.01
02/10/2012	0.777	3.1299	1.4536	1.578	2.429	2.708	2.01
03/10/2012	0.738	3.1274	1.3446	1.578	2.4256	2.719	0.603
04/10/2012	0.794	3.1443	1.4635	1.589	2.4561	2.7352	0
05/10/2012	1.078	3.1417	1.474	1.5925	2.4611	2.9822	1.407
06/10/2012	1.058	3.1552	1.4928	1.6077	2.5366	3.0165	0.804
07/10/2012	1.099	3.1686	1.5369	1.621	2.5981	3.039	0
08/10/2012	1.150	3.1693	1.5631	1.6241	2.5786	3.0107	0.201
09/10/2012	1.197	3.1788	1.5711	1.637	2.5897	3.0265	0
10/10/2012	1.236	3.1849	1.5946	1.6453	2.6005	3.0241	0
11/10/2012	1.230	3.1909	1.6047	1.6546	2.5702	3.002	0.603
12/10/2012	0.706	3.104	1.1769	1.6524	2.5409	3.0097	11.457
13/10/2012	0.856	3.122	1.4075	1.6228	2.3967	2.7945	0.201
14/10/2012	1.038	3.1455	1.4767	1.6127	2.3918	2.8622	0
15/10/2012	1.121	3.1616	1.5223	1.6136	2.4678	2.9489	0
16/10/2012	1.056	3.1512	1.3367	1.616	2.4527	2.9691	2.412
17/10/2012	1.041	3.1575	1.4754	1.6168	2.5086	2.9835	1.407
18/10/2012	0.722	3.0955	1.2842	1.6135	2.5137	2.9793	6.834
19/10/2012	0.925	3.1445	1.4396	1.5955	2.5381	2.9542	0.201
20/10/2012	1.094	3.1625	1.4993	1.586	2.5589	2.9926	0
21/10/2012	1.174	3.1764	1.5313	1.5845	2.6062	3.013	0
22/10/2012	1.213	3.1851	1.513	1.5846	2.6158	3.0206	0.603
23/10/2012	1.214	3.1917	1.5075	1.5951	2.6453	3.0326	0
24/10/2012	1.214	3.1962	1.5623	1.5992	2.6288	3.0194	0
25/10/2012	1.224	3.2021	1.5886	1.6061	2.6207	3.0203	0
26/10/2012	1.247	3.204	1.6118	1.6145	2.6268	3.0198	0
27/10/2012	1.265	3.206	1.6257	1.6214	2.6356	3.0369	0
28/10/2012	1.280	3.2101	1.6433	1.6294	2.6331	3.0151	0.402
29/10/2012	1.256	3.2157	1.6207	1.6429	2.5989	3.0144	1.005
30/10/2012	1.244	3.2223	1.6106	1.6509	2.6319	3.0161	0.402
31/10/2012	1.206	3.2189	1.6569	1.6522	2.5567	2.9622	0.201
01/11/2012	1.022	3.206	1.4372	1.6549	2.5199	2.9726	3.015
02/11/2012	1.114	3.2286	1.5586	1.6738	2.6134	3.0225	0
03/11/2012	1.203	3.2346	1.6162	1.6825	2.6706	3.0528	0
04/11/2012	1.247	3.2375	1.6026	1.6867	2.6823	3.046	0
05/11/2012	1.297	3.2501	1.5405	1.6994	2.7227	3.0832	0
06/11/2012	1.361	3.2542	1.6084	1.7083	2.7903	3.1083	0.201
07/11/2012	1.373	3.2658	1.6639	1.7232	2.7951	3.1068	0
08/11/2012	1.347	3.2657	1.6824	1.7262	2.7365	3.0764	0
09/11/2012	1.336	3.2653	1.6867	1.7252	2.7008	3.0402	0
10/11/2012	1.269	3.2601	1.6423	1.7286	2.6335	3.0131	1.206
11/11/2012	1.311	3.2693	1.6762	1.7381	2.7087	3.0741	1.809
12/11/2012	1.345	3.2743	1.6446	1.7483	2.7815	3.0956	1.005
13/11/2012	1.297	3.2796	1.6075	1.7577	2.7768	3.1015	0
14/11/2012	1.322	3.2844	1.6734	1.7627	2.7857	3.1036	0
15/11/2012	1.324	3.2845	1.6918	1.7634	2.7619	3.0756	0
16/11/2012	1.312	3.2827	1.6529	1.7608	2.7135	3.0451	0
17/11/2012	1.162	3.2688	1.3627	1.7601	2.6555	3.0282	6.231
18/11/2012	1.131	3.2697	1.5238	1.7593	2.692	3.0484	0

Date	Groundwater Depth (m below ground level)						Rainfall (mm)
	F1	P	N1	AB	AE	AF	
19/11/2012	1.186	3.2749	1.5738	1.7575	2.6568	3.013	0
20/11/2012	1.235	3.2866	1.603	1.766	2.6686	3.0289	0.201
21/11/2012	1.275	3.2908	1.6157	1.7701	2.7038	3.053	12.261
22/11/2012	1.032	3.2599	1.431	1.74	2.6264	2.9502	0
23/11/2012	0.958	3.2515	1.3271	1.7216	2.5212	2.9061	5.427
24/11/2012	1.117	3.2515	1.4974	1.6964	2.5211	2.8702	0
25/11/2012	0.874	3.2184	1.1751	1.6557	2.4059	2.8723	16.482
26/11/2012	0.777	3.1683	1.2796	1.5817	2.1189	2.4903	3.819
27/11/2012	0.778	3.1492	1.2247	1.5298	2.1448	2.5503	4.824
28/11/2012	0.923	3.164	1.3987	1.4834	2.2446	2.6707	0.402
29/11/2012	0.715	3.1384	1.3157	1.4357	2.2735	2.6261	0
30/11/2012	0.793	3.1393	1.3549	1.4317	2.3201	2.7125	0
01/12/2012	0.852	3.1499	1.3701	1.438	2.4103	2.8039	2.211
02/12/2012	0.842	3.1524	1.3586	1.4484	2.4539	2.8271	0
03/12/2012	0.786	3.1462	1.0798	1.4497	2.4146	2.8095	6.432
04/12/2012	0.720	3.1494	1.2877	1.4476	2.4001	2.7718	3.015
05/12/2012	0.675	3.1387	1.0468	1.4459	2.4213	2.7834	4.824
06/12/2012	0.751	3.142	1.265	1.4251	2.4673	2.7579	0
07/12/2012	0.657	3.1221	1.0203	1.4093	2.3537	2.755	9.849
08/12/2012	0.717	3.1326	1.2271	1.3985	2.4608	2.7679	0
09/12/2012	0.767	3.1373	1.3236	1.3836	2.4234	2.74	0.201
10/12/2012	0.805	3.1461	1.3674	1.3884	2.4561	2.7875	0
11/12/2012	0.870	3.1504	1.423	1.3964	2.5209	2.816	0
12/12/2012	0.861	3.1491	1.4444	1.4042	2.4828	2.7873	0
13/12/2012	0.844	3.1516	1.4168	1.4124	2.4277	2.7614	0
14/12/2012	0.843	3.1541	1.45	1.4256	2.4007	2.703	4.623
15/12/2012	0.641	3.1398	1.1011	1.4339	2.3855	2.7491	6.432
16/12/2012	0.684	3.1474	1.2208	1.4327	2.3506	2.6539	0.603
17/12/2012	0.720	3.1502	1.2529	1.4226	2.3443	2.6869	3.417
18/12/2012	0.689	3.1436	1.1146	1.428	2.4408	2.7523	5.025
19/12/2012	0.740	3.1399	1.2704	1.4008	2.4111	2.7023	0.402
20/12/2012	0.630	3.1199	1.0586	1.3794	2.3475	2.6708	14.07
21/12/2012	0.374	2.9726	0.9186	1.3001	2.0839	2.3464	10.854
22/12/2012	0.557	2.9859	1.1536	1.2092	1.9073	2.1576	12.06
23/12/2012	0.392	2.8391	0.9497	1.1009	1.8075	2.1034	6.03
24/12/2012	0.579	2.9078	1.1789	1.0375	1.8951	2.2029	4.02
25/12/2012	0.455	2.8806	1.1522	1.0295	2.0054	2.4227	3.216
26/12/2012	0.607	2.9337	1.2243	1.0699	2.1484	2.5333	3.618
27/12/2012	0.560	2.9313	1.2051	1.0985	2.1835	2.6046	1.608
28/12/2012	0.686	2.9744	1.2989	1.1441	2.3175	2.6548	2.814
29/12/2012	0.619	2.9601	1.2841	1.1562	2.2291	2.619	4.422
30/12/2012	0.589	2.9311	1.2071	1.1701	2.2481	2.6469	0
31/12/2012	0.690	2.9629	1.3022	1.1856	2.2307	2.6029	2.412
01/01/2013	0.582	2.9214	1.1638	1.2048	2.2784	2.6747	3.618
02/01/2013	0.743	2.995	1.3338	1.2311	2.348	2.6908	3.618
03/01/2013	0.693	2.9795	1.2685	1.2424	2.3917	2.7325	0
04/01/2013	0.771	3.0232	1.4073	1.2595	2.4323	2.7453	0
05/01/2013	0.791	3.0422	1.4537	1.2736	2.428	2.746	0
06/01/2013	0.823	3.0605	1.4762	1.2917	2.4388	2.7476	0
07/01/2013	0.827	3.0695	1.4808	1.3069	2.4256	2.7427	0
08/01/2013	0.838	3.0831	1.4851	1.3313	2.4388	2.7581	3.015

Date	Groundwater Depth (m below ground level)						Rainfall (mm)
	F1	P	N1	AB	AE	AF	
09/01/2013	0.685	3.0502	1.2562	1.3401	2.4584	2.7641	3.216
10/01/2013	0.761	3.0738	1.3704	1.3436	2.4023	2.7217	0
11/01/2013	0.809	3.0918	1.4001	1.3663	2.4386	2.7513	2.814
12/01/2013	0.756	3.0904	1.3415	1.3745	2.4211	2.749	0.402
13/01/2013	0.807	3.1062	1.4162	1.3911	2.4816	2.7791	0
14/01/2013	0.822	3.1112	1.2884	1.4005	2.4613	2.7446	8.643
15/01/2013	0.572	3.0708	1.1529	1.3906	2.4101	2.739	0.804
16/01/2013	0.720	3.0927	1.2976	1.383	2.3674	2.7051	0
17/01/2013	0.807	3.1133	1.3519	1.3993	2.429	2.7369	0
18/01/2013	0.814	3.1128	1.2896	1.4003	2.4029	2.7145	0
19/01/2013	0.816	3.116	1.2086	1.4136	2.4027	2.738	0
20/01/2013	0.714	3.1228	1.2489	1.4271	2.451	2.753	0.201
21/01/2013	0.692	3.1276	1.2492	1.4376	2.4322	2.7544	0.804
22/01/2013	0.657	3.1365	1.2083	1.4574	2.4953	2.7986	0.402
23/01/2013	0.768	3.1472	1.2719	1.4723	2.5556	2.8183	2.211
24/01/2013	0.724	3.151	1.2823	1.482	2.5633	2.8321	1.407
25/01/2013	0.799	3.15	1.362	1.485	2.5646	2.7967	0.201
26/01/2013	0.736	3.1457	1.1389	1.4902	2.4627	2.7732	11.658
27/01/2013	0.389	3.0272	1.0142	1.4272	2.3435	2.7096	10.452
28/01/2013	0.557	3.0079	1.1771	1.3295	1.9051	2.0895	0.201
29/01/2013	0.643	3.0529	1.2002	1.3151	1.9996	2.3356	0.402
30/01/2013	0.705	3.0827	1.2336	1.3174	2.1604	2.5802	0.201
31/01/2013	0.785	3.1002	1.2777	1.3241	2.3082	2.6826	3.216
01/02/2013	0.760	3.0896	1.2794	1.325	2.3237	2.6921	0
02/02/2013	0.819	3.1151	1.2904	1.354	2.4171	2.7863	0.603
03/02/2013	0.850	3.1169	1.3492	1.3619	2.463	2.772	0
04/02/2013	0.830	3.1266	1.3515	1.3797	2.4119	2.7634	0
05/02/2013	0.824	3.1223	1.3527	1.3823	2.3915	2.7321	0.402
06/02/2013	0.753	3.1309	1.2344	1.4138	2.4409	2.8056	2.211
07/02/2013	0.851	3.1459	1.3707	1.4343	2.5518	2.8205	1.005
08/02/2013	0.791	3.1474	1.2914	1.4455	2.5257	2.8208	0.402
09/02/2013	0.813	3.1502	1.3291	1.455	2.5226	2.8044	3.417
10/02/2013	0.626	3.1152	1.1319	1.4297	2.3932	2.7108	3.618
11/02/2013	0.380	3.0555	1.0522	1.3917	2.2898	2.6715	1.608
12/02/2013	0.717	3.0839	1.2664	1.362	2.1862	2.5167	0
13/02/2013	0.798	3.1005	1.3484	1.3512	2.313	2.6511	0
14/02/2013	0.570	3.0631	1.1163	1.3399	2.2924	2.6779	7.437
15/02/2013	0.608	3.0457	1.2794	1.3043	2.1974	2.5141	0
16/02/2013	0.749	3.0694	1.3638	1.29	2.2622	2.6315	0
17/02/2013	0.790	3.0864	1.4048	1.2966	2.3327	2.6859	0
18/02/2013	0.823	3.097	1.4099	1.3107	2.3773	2.7232	0
19/02/2013	0.849	3.1059	1.4316	1.3318	2.4197	2.744	0
20/02/2013	0.884	3.1204	1.4291	1.3593	2.4616	2.777	0
21/02/2013	0.911	3.1276	1.4461	1.3808	2.4963	2.7852	0
22/02/2013	0.918	3.1342	1.4663	1.4017	2.4952	2.7891	0
23/02/2013	0.932	3.1419	1.4428	1.4225	2.5054	2.799	0
24/02/2013	0.960	3.1534	1.4195	1.4471	2.5422	2.8196	0
25/02/2013	0.973	3.1593	1.4231	1.465	2.5624	2.8301	0
26/02/2013	0.9412	3.1805	1.48	1.4896	2.6029	2.8438	0
27/02/2013	1.0075	3.1747	1.3676	1.472	2.5632	2.772	0
28/02/2013	1.0228	3.1788	1.3655	1.487	2.5421	2.7382	0

Date	Groundwater Depth (m below ground level)						Rainfall (mm)
	F1	P	N1	AB	AE	AF	
01/03/2013	1.0531	3.1847	1.3735	1.498	2.5596	2.7398	0
02/03/2013	1.0504	3.1879	1.3629	1.5101	2.5402	2.7431	0
03/03/2013	1.0578	3.1918	1.3534	1.5217	2.5398	2.7294	0
04/03/2013	1.03	3.1868	1.3461	1.5262	2.4942	2.7257	0
05/03/2013	1.0244	3.194	1.3364	1.5412	2.4932	2.7007	0
06/03/2013	1.047	3.1957	1.3484	1.5558	2.5228	2.7162	0
07/03/2013	1.0087	3.1848	1.2601	1.5634	2.5099	2.7293	1.206
08/03/2013	0.602	3.156	1.0918	1.566	2.5323	2.7211	5.628
09/03/2013	0.4945	3.1251	1.0587	1.5587	2.5149	2.736	3.417
10/03/2013	0.5088	3.1095	1.0842	1.5416	2.5033	2.7188	1.206
11/03/2013	0.8139	3.1362	1.2412	1.5268	2.5097	2.7154	0
12/03/2013	0.8794	3.1468	1.242	1.5267	2.5162	2.7204	0
13/03/2013	0.9194	3.1638	1.2848	1.5346	2.5297	2.7209	0
14/03/2013	0.9421	3.1701	1.2661	1.5376	2.5475	2.7395	0
15/03/2013	0.8875	3.1651	1.278	1.5356	2.4712	2.7226	1.206
16/03/2013	0.5701	3.1543	1.2004	1.5446	2.4577	2.6932	2.814
17/03/2013	0.4806	3.0968	1.1401	1.5152	2.4	2.6835	6.633
18/03/2013	0.7736	3.1335	1.2343	1.501	2.3923	2.6254	0
19/03/2013	0.845	3.1476	1.2647	1.4904	2.4474	2.6583	0.201
20/03/2013	0.9117	3.1635	1.2988	1.4956	2.5346	2.6886	0
21/03/2013	0.9246	3.163	1.3259	1.4919	2.5556	2.7324	0
22/03/2013	0.8994	3.1609	1.3108	1.4869	2.5113	2.7115	4.422
23/03/2013	0.4497	3.0879	1.0736	1.461	2.4843	2.6954	1.206
24/03/2013	0.6208	3.1174	1.2447	1.4376	2.4804	2.6827	0
25/03/2013	0.7917	3.132	1.2906	1.4315	2.4863	2.6825	0
26/03/2013	0.8375	3.1392	1.3226	1.4316	2.4857	2.6933	0
27/03/2013	0.8613	3.1424	1.3631	1.4378	2.4773	2.6905	0
28/03/2013	0.8946	3.1519	1.387	1.4497	2.4947	2.6935	0
29/03/2013	0.9137	3.1609	1.3924	1.4638	2.5052	2.7041	0
30/03/2013	0.9268	3.1645	1.3919	1.4789	2.509	2.7003	0
31/03/2013	0.9645	3.1738	1.406	1.4956	2.5491	2.7265	0
01/04/2013	0.9606	3.1801	1.3813	1.5091	2.5368	2.7175	0
02/04/2013	0.9828	3.1875	1.3879	1.526	2.5673	2.732	0
03/04/2013	1.0111	3.1939	1.4047	1.543	2.6006	2.7483	0
04/04/2013	1.0074	3.1972	1.4306	1.5542	2.584	2.7436	0
05/04/2013	0.9987	3.2007	1.443	1.5638	2.5807	2.7379	0
06/04/2013	1.0292	3.2074	1.4618	1.5755	2.6197	2.7554	0
07/04/2013	1.0243	3.2075	1.4423	1.5813	2.5999	2.7499	0
08/04/2013	0.9997	3.2094	1.3925	1.5872	2.5378	2.7193	0
09/04/2013	0.9918	3.208	1.4151	1.5943	2.5214	2.7076	0
10/04/2013	1.0345	3.2169	1.4372	1.6106	2.5874	2.7383	0
11/04/2013	1.0143	3.2182	1.4413	1.6174	2.5601	2.7279	0.402
12/04/2013	0.9784	3.2127	1.3554	1.623	2.5514	2.7227	4.221
13/04/2013	1.0016	3.2175	1.3308	1.6387	2.6493	2.7748	0.402
14/04/2013	1.0119	3.2298	1.4081	1.6523	2.6265	2.7684	0.201
15/04/2013	1.0314	3.236	1.4515	1.6579	2.6465	2.7719	0
16/04/2013	1.0096	3.2332	1.4731	1.6609	2.6147	2.7565	0.201
17/04/2013	1.0423	3.2384	1.49	1.6699	2.6667	2.7965	0
18/04/2013	1.0025	3.2408	1.4407	1.676	2.5853	2.7338	0
19/04/2013	1.078	3.249	1.5124	1.6887	2.7103	2.8021	0.201
20/04/2013	1.0953	3.2442	1.5272	1.6897	2.7412	2.8282	0

Date	Groundwater Depth (m below ground level)						Rainfall (mm)
	F1	P	N1	AB	AE	AF	
21/04/2013	1.0544	3.24	1.5111	1.6912	2.6542	2.7797	0.201
22/04/2013	1.0385	3.2443	1.4439	1.6983	2.6176	2.7538	0.201
23/04/2013	1.0653	3.2504	1.4721	1.7098	2.643	2.7624	0
24/04/2013	1.0951	3.2576	1.5038	1.7253	2.684	2.7917	0
25/04/2013	1.0213	3.274	1.5809	1.796	2.6772	2.882	0
26/04/2013	1.0189	3.2723	1.5604	1.8043	2.6593	2.8635	0
27/04/2013	1.0406	3.2789	1.565	1.8096	2.6926	2.8436	0.201
28/04/2013	1.0209	3.2784	1.5556	1.8158	2.6453	2.8655	0
29/04/2013	1.0392	3.2854	1.5321	1.8283	2.7032	2.8432	1.809
30/04/2013	1.0642	3.2883	1.5463	1.8342	2.7372	2.8879	0
01/05/2013	1.0513	3.2891	1.5594	1.8404	2.7069	2.8855	0
02/05/2013	1.0546	3.2918	1.5861	1.8454	2.7035	2.8724	0
03/05/2013	1.0472	3.2935	1.5955	1.8515	2.6714	2.8628	0
04/05/2013	1.0531	3.2952	1.5984	1.8556	2.6795	2.8427	0.402
05/05/2013	1.0724	3.3019	1.5953	1.8664	2.7193	2.8723	0
06/05/2013	1.0675	3.3027	1.5737	1.8725	2.6994	2.8754	0
07/05/2013	1.0596	3.3036	1.5802	1.8785	2.6839	2.8683	0
08/05/2013	1.0406	3.3057	1.5962	1.8808	2.6365	2.8392	0
09/05/2013	1.0338	3.2987	1.5503	1.8802	2.6225	2.8539	1.005
10/05/2013	1.0406	3.3074	1.5467	1.8955	2.7165	2.8385	1.206
11/05/2013	0.9915	3.2966	1.5644	1.8941	2.6887	2.8691	2.814
12/05/2013	0.9057	3.292	1.4787	1.8992	2.6885	2.8761	2.613
13/05/2013	0.8928	3.2993	1.4407	1.9092	2.6734	2.8582	2.01
14/05/2013	0.8729	3.2908	1.48	1.9069	2.6207	2.8404	1.206
15/05/2013	0.3964	3.1686	1.1886	1.8323	2.5379	2.7786	34.17
16/05/2013	0.6621	3.1908	1.4022	1.8126	2.4822	2.7277	0
17/05/2013	0.7774	3.212	1.4483	1.8028	2.5516	2.7311	0.603
18/05/2013	0.7628	3.2136	1.46	1.7939	2.5416	2.7712	0.603
19/05/2013	0.8123	3.2263	1.4842	1.7919	2.598	2.7879	0
20/05/2013	0.8365	3.2317	1.4859	1.7883	2.6027	2.8184	0.201
21/05/2013	0.8842	3.237	1.4823	1.7845	2.6273	2.8318	0
22/05/2013	0.9152	3.2407	1.4907	1.7851	2.6357	2.8365	0
23/05/2013	0.8048	3.2354	1.4371	1.7852	2.5939	2.8218	1.809
24/05/2013	0.8564	3.2454	1.4738	1.7908	2.6147	2.8153	0.804
25/05/2013	0.8928	3.2527	1.4853	1.8024	2.6588	2.8551	0
26/05/2013	0.887	3.2544	1.5018	1.8068	2.6255	2.8477	0
27/05/2013	0.8679	3.2548	1.4951	1.8079	2.5614	2.8213	1.005
28/05/2013	0.5159	3.229	1.2528	1.81	2.5661	2.8087	8.241
29/05/2013	0.4259	3.2042	1.2899	1.7879	2.5753	2.8112	8.04
30/05/2013	0.5887	3.2053	1.3298	1.7712	2.5786	2.8165	2.814
31/05/2013	0.7974	3.2128	1.3685	1.7649	2.6074	2.8291	0.201
01/06/2013	0.829	3.2183	1.4781	1.7569	2.6282	2.8546	0
02/06/2013	0.8806	3.2265	1.5111	1.7581	2.65	2.8677	0
03/06/2013	0.9041	3.2322	1.5137	1.7619	2.6495	2.8766	0
04/06/2013	0.9017	3.236	1.5257	1.7666	2.6263	2.8732	0
05/06/2013	0.9079	3.2384	1.534	1.7694	2.6064	2.8584	0
06/06/2013	0.948	3.2451	1.5075	1.78	2.6337	2.8572	0
07/06/2013	0.9689	3.2529	1.5628	1.792	2.6505	2.8739	0
08/06/2013	0.9649	3.2539	1.577	1.7996	2.6345	2.8711	0
09/06/2013	0.9682	3.2571	1.5674	1.8086	2.6196	2.8547	0
10/06/2013	0.9859	3.2607	1.5671	1.8168	2.6249	2.8462	0

Date	Groundwater Depth (m below ground level)						Rainfall (mm)
	F1	P	N1	AB	AE	AF	
11/06/2013	0.9986	3.2622	1.4684	1.8258	2.6143	2.8407	0
12/06/2013	1.0214	3.269	1.4841	1.838	2.6218	2.834	0
13/06/2013	1.0859	3.2497	1.3462	1.8052	2.6476	2.7919	4.02
14/06/2013	1.0307	3.2378	1.2989	1.8136	2.6349	2.8389	3.015
15/06/2013	0.9528	3.2417	1.3817	1.8215	2.6077	2.7887	1.206
16/06/2013	1.0355	3.2551	1.4171	1.8359	2.6648	2.8168	0.201
17/06/2013	1.0631	3.2605	1.421	1.844	2.678	2.8459	0
18/06/2013	1.073	3.2652	1.4305	1.8521	2.6628	2.8495	0
19/06/2013	1.0938	3.2688	1.4442	1.8616	2.6827	2.8496	0.201
20/06/2013	1.0731	3.2666	1.3789	1.8643	2.6375	2.8485	0.603
21/06/2013	1.0962	3.2739	1.5125	1.8723	2.6571	2.8288	0.201
22/06/2013	1.0026	3.2668	1.5354	1.8764	2.6081	2.8324	2.211
23/06/2013	1.0124	3.2739	1.5955	1.8845	2.6921	2.8238	1.608
24/06/2013	1.1091	3.2819	1.6426	1.894	2.7493	2.878	0
25/06/2013	1.1349	3.2862	1.6589	1.9023	2.7508	2.8961	0
26/06/2013	1.1482	3.2874	1.6649	1.9077	2.7422	2.8941	0
27/06/2013	1.1333	3.2818	1.7092	1.9071	2.6979	2.8839	3.216
28/06/2013	0.796	3.2621	1.5283	1.9113	2.6397	2.8474	3.618
29/06/2013	0.8772	3.2713	1.6143	1.917	2.6783	2.8461	0.603
30/06/2013	0.9523	3.2749	1.6444	1.919	2.6497	2.8515	0
01/07/2013	1.0236	3.2773	1.6419	1.9223	2.6544	2.8303	0.603
02/07/2013	1.0273	3.2761	1.6459	1.9213	2.6041	2.8387	2.613
03/07/2013	0.9287	3.2749	1.5882	1.93	2.6658	2.7962	2.814
04/07/2013	1.0143	3.2835	1.6465	1.9372	2.7037	2.8545	0
05/07/2013	1.0787	3.2873	1.6696	1.9429	2.7455	2.8888	0
06/07/2013	1.0999	3.2907	1.6766	1.9492	2.7223	2.8865	0
07/07/2013	1.1331	3.2949	1.6877	1.9539	2.7447	2.8958	0
08/07/2013	1.1397	3.296	1.6923	1.9568	2.7333	2.8978	0
09/07/2013	1.1336	3.295	1.6908	1.9593	2.7043	2.8853	0
10/07/2013	1.1539	3.2972	1.696	1.9644	2.7116	2.8725	0
11/07/2013	1.1668	3.2984	1.701	1.9676	2.7156	2.8851	0
12/07/2013	1.1814	3.3002	1.7054	1.9733	2.7181	2.8818	0
13/07/2013	1.199	3.3054	1.7117	1.9792	2.7287	2.8823	0
14/07/2013	1.2061	3.3053	1.7147	1.9817	2.727	2.8927	0
15/07/2013	1.2138	3.3093	1.7168	1.9883	2.7258	2.8896	0
16/07/2013	1.2262	3.3097	1.7187	1.9933	2.7343	2.8929	0
17/07/2013	1.2341	3.3121	1.7219	1.9998	2.7507	2.8974	0
18/07/2013	1.247	3.3147	1.7242	2.0067	2.7563	2.9063	0
19/07/2013	1.2618	3.3158	1.725	2.0111	2.7488	2.9074	0
20/07/2013	1.2612	3.3175	1.725	2.0159	2.748	2.9073	0
21/07/2013	1.2661	3.3162	1.7263	2.0183	2.7303	2.9005	0
22/07/2013	1.2803	3.3178	1.7292	2.0238	2.7178	2.8911	0
23/07/2013	1.2096	3.3247	1.7273	2.0302	2.719	2.8848	2.613
24/07/2013	1.2719	3.378	1.7312	2.0396	2.737	2.8788	0
25/07/2013	1.2808	3.3789	1.7289	2.0425	2.7313	2.8826	0.402
26/07/2013	1.2992	3.3821	1.7358	2.0475	2.7515	2.8867	0
27/07/2013	1.2932	3.3812	1.7384	2.0504	2.7237	2.8872	0
28/07/2013	0.5474	3.3147	1.4704	2.0378	2.6533	2.8529	33.768
29/07/2013	0.9499	3.318	1.6103	2.0372	2.6674	2.8415	0.402
30/07/2013	1.047	3.3195	1.6368	2.0352	2.6778	2.8608	0.201
31/07/2013	0.955	3.3147	1.4651	2.0308	2.6888	2.86	6.231

Date	Groundwater Depth (m below ground level)						Rainfall (mm)
	F1	P	N1	AB	AE	AF	
01/08/2013	0.9586	3.3103	1.6037	2.0298	2.6329	2.8478	0.201
02/08/2013	1.0369	3.3192	1.6249	2.0322	2.6576	2.8315	0
03/08/2013	1.1292	3.326	1.6523	2.0373	2.7183	2.8425	0
04/08/2013	1.1565	3.3246	1.6639	2.0367	2.706	2.8739	0
05/08/2013	0.8156	3.3058	1.4429	2.0298	2.6382	2.855	9.045
06/08/2013	0.9546	3.3048	1.579	2.0276	2.6697	2.8499	0.402
07/08/2013	1.051	3.3115	1.6109	2.0279	2.673	2.8344	0
08/08/2013	1.1023	3.3179	1.633	2.0307	2.6901	2.8541	0
09/08/2013	1.1537	3.3222	1.6437	2.0317	2.7157	2.8458	0.201
10/08/2013	1.1848	3.3257	1.6611	2.0346	2.713	2.8719	0
11/08/2013	1.1945	3.3264	1.6666	2.0375	2.6902	2.8538	0
12/08/2013	1.2291	3.3318	1.6752	2.0403	2.7019	2.8569	0
13/08/2013	1.2445	3.3366	1.6792	2.0452	2.7326	2.8703	0
14/08/2013	1.2403	3.3396	1.6813	2.0495	2.7202	2.8796	0
15/08/2013	1.2355	3.3442	1.6822	2.054	2.6984	2.8607	0.402
16/08/2013	0.5717	3.3034	1.4798	2.0524	2.6627	2.8469	19.899
17/08/2013	0.9608	3.3022	1.5708	2.0416	2.5928	2.841	0.201
18/08/2013	0.9951	3.3021	1.5647	2.0441	2.6437	2.8118	2.613
19/08/2013	1.0879	3.3125	1.6208	2.0458	2.722	2.8446	0
20/08/2013	1.1386	3.3144	1.658	2.0436	2.7247	2.8821	0
21/08/2013	1.2991	3.2723	1.6759	2.0606	2.5859	2.8976	0
22/08/2013	1.3198	3.278	1.686	2.0646	2.5772	2.882	0
23/08/2013	1.3357	3.2804	1.6868	2.068	2.5684	2.8801	0
24/08/2013	1.2816	3.2774	1.6266	2.0683	2.5811	2.8744	4.02
25/08/2013	1.3282	3.2851	1.6789	2.0754	2.6063	2.8785	0.201
26/08/2013	1.3545	3.2903	1.7046	2.0794	2.6177	2.9042	0
27/08/2013	1.3726	3.2941	1.7123	2.0798	2.6146	2.8966	0
28/08/2013	1.3941	3.2993	1.7238	2.084	2.634	2.9084	0
29/08/2013	1.4037	3.3019	1.7249	2.0887	2.6085	2.902	0
30/08/2013	1.4279	3.3062	1.7289	2.0934	2.5961	2.8978	0
31/08/2013	1.4575	3.312	1.7382	2.0961	2.6667	2.9153	0
01/09/2013	1.4705	3.3157	1.7421	2.1002	2.659	2.929	0
02/09/2013	1.4728	3.3194	1.7387	2.1043	2.6444	2.912	0
03/09/2013	1.4888	3.3209	1.7325	2.1077	2.6462	2.9179	0
04/09/2013	1.4838	3.3212	1.7286	2.1095	2.6088	2.91	0
05/09/2013	1.4937	3.3238	1.7292	2.113	2.6011	2.8869	0
06/09/2013	1.2639	3.3127	1.6002	2.1131	2.5893	2.8906	5.829
07/09/2013	1.3795	3.3133	1.6464	2.1177	2.6282	2.8838	1.407
08/09/2013	1.4052	3.3165	1.6798	2.1189	2.6396	2.9173	0
09/09/2013	1.425	3.3192	1.6974	2.1221	2.6446	2.912	0.603
10/09/2013	1.4504	3.3239	1.7165	2.1272	2.6771	2.9308	0.603
11/09/2013	1.4617	3.3235	1.7239	2.1288	2.6587	2.9341	1.005
12/09/2013	1.3719	3.3162	1.6377	2.133	2.631	2.9128	2.211
13/09/2013	1.3436	3.3165	1.6486	2.1345	2.6409	2.9062	1.005
14/09/2013	1.2862	3.3128	1.6019	2.1336	2.6331	2.8973	2.01
15/09/2013	1.2798	3.303	1.6178	2.1307	2.5155	2.9059	2.01
16/09/2013	1.2945	3.3095	1.5696	2.1369	2.5716	2.8633	1.206
17/09/2013	1.3304	3.3046	1.6038	2.1327	2.5574	2.8817	0.603
18/09/2013	1.4626	3.3135	1.5546	2.1382	2.6436	2.8791	1.407
19/09/2013	1.4964	3.3091	1.4384	2.1403	2.618	2.9298	2.613
20/09/2013	1.5923	3.3168	1.6148	2.145	2.6919	2.9286	0

Date	Groundwater Depth (m below ground level)						Rainfall (mm)
	F1	P	N1	AB	AE	AF	
21/09/2013	1.6544	3.3214	1.6432	2.1473	2.6851	2.9419	0
22/09/2013	1.7157	3.327	1.6693	2.1503	2.7035	2.9465	0
23/09/2013	1.7265	3.3238	1.6753	2.1467	2.6621	2.9386	0
24/09/2013	1.7376	3.3269	1.6727	2.1502	2.6286	2.9153	0
25/09/2013	1.7403	3.3248	1.6725	2.1487	2.6267	2.9021	1.608
26/09/2013	1.7586	3.3292	1.6862	2.1492	2.6715	2.9191	0
27/09/2013	1.7687	3.3323	1.6909	2.1529	2.6554	2.9259	0
28/09/2013	1.7735	3.3333	1.6887	2.155	2.6336	2.9137	0
29/09/2013	1.791	3.3344	1.6949	2.1564	2.6432	2.9064	0
30/09/2013	1.7921	3.3384	1.7008	2.1583	2.652	2.9113	0
01/10/2013	1.7995	3.3404	1.7066	2.1597	2.6698	2.9238	0
02/10/2013	1.7237	3.3291	1.5658	2.1606	2.6633	2.9206	4.02
03/10/2013	1.6564	3.3181	1.5551	2.1587	2.6171	2.9207	3.618
04/10/2013	1.5184	3.3125	1.3291	2.1564	2.6367	2.8991	4.02
05/10/2013	1.5741	3.3072	1.5335	2.1517	2.6826	2.9194	0
06/10/2013	1.6542	3.3071	1.6064	2.1439	2.6707	2.9377	0
07/10/2013	1.7054	3.3113	1.6266	2.1401	2.6595	2.9256	0
08/10/2013	1.7381	3.3142	1.6469	2.1386	2.6653	2.9156	0
09/10/2013	1.7438	3.309	1.6476	2.1284	2.6227	2.9223	1.005
10/10/2013	1.7655	3.3125	1.6677	2.1348	2.6701	2.9038	0
11/10/2013	1.7787	3.3164	1.6711	2.1363	2.6743	2.917	0
12/10/2013	1.785	3.318	1.6573	2.1384	2.6496	2.9231	0
13/10/2013	1.7745	3.3137	1.6654	2.1336	2.6051	2.9042	1.206
14/10/2013	1.7218	3.3034	1.4094	2.1359	2.5961	2.8763	4.02
15/10/2013	1.7044	3.3087	1.5857	2.1374	2.6249	2.8824	0.201
16/10/2013	1.7093	3.2977	1.3283	2.1291	2.5501	2.9035	1.608
17/10/2013	1.7003	3.3044	1.5261	2.1362	2.6356	2.8815	1.005
18/10/2013	1.7229	3.3009	1.5809	2.1304	2.6142	2.9092	0.201
19/10/2013	1.6504	3.2928	1.4654	2.1274	2.559	2.8675	3.015
20/10/2013	1.6347	3.2876	1.503	2.1203	2.5651	2.8684	4.824
21/10/2013	0.624	3.2501	1.2015	2.0982	2.5187	2.876	8.844
22/10/2013	1.2735	3.2319	1.3079	2.075	2.4477	2.8321	1.809
23/10/2013	1.1466	3.2127	1.2467	2.0467	2.5034	2.7847	6.03
24/10/2013	1.4275	3.2124	1.4553	2.0218	2.5391	2.853	0
25/10/2013	1.4682	3.2012	1.3676	1.9975	2.4515	2.8227	1.608
26/10/2013	1.4732	3.2038	1.4885	1.9803	2.4726	2.8156	0
27/10/2013	1.4579	3.2036	1.4731	1.9649	2.4418	2.798	1.407
28/10/2013	1.2362	3.1837	1.231	1.9515	2.4783	2.7924	5.025
29/10/2013	1.2961	3.175	1.3045	1.935	2.5203	2.8118	3.216
30/10/2013	1.4211	3.1731	1.4454	1.9135	2.4839	2.8172	0.201
31/10/2013	1.4903	3.172	1.4218	1.9025	2.4843	2.8051	1.005
01/11/2013	1.3731	3.2082	1.4883	1.9297	2.5587	2.8118	4.221
02/11/2013	1.2477	3.1853	1.2134	1.9153	2.5013	2.8109	2.613
03/11/2013	1.2139	3.1876	1.386	1.8999	2.4551	2.6971	1.407
04/11/2013	1.2717	3.1837	1.4311	1.8843	2.4152	2.6763	0
05/11/2013	1.4001	3.1889	1.4843	1.8786	2.4784	2.7605	3.216
06/11/2013	1.359	3.1881	1.4213	1.8717	2.508	2.7615	0.402
07/11/2013	1.076	3.1759	1.2448	1.8662	2.5098	2.738	2.613
08/11/2013	1.2753	3.1779	1.4285	1.8507	2.4706	2.7145	0
09/11/2013	1.407	3.1842	1.4728	1.8417	2.4845	2.7367	0.201
10/11/2013	1.4912	3.1901	1.4463	1.8391	2.5216	2.7116	1.005

Date	Groundwater Depth (m below ground level)						Rainfall (mm)
	F1	P	N1	AB	AE	AF	
11/11/2013	1.5516	3.1986	1.5426	1.8399	2.586	2.8143	1.608
12/11/2013	1.4909	3.1976	1.4114	1.8429	2.5896	2.7952	0.603
13/11/2013	1.4991	3.2002	1.5255	1.8369	2.6159	2.8271	0
14/11/2013	1.4943	3.2005	1.3952	1.8356	2.5167	2.7441	3.618
15/11/2013	1.4352	3.1976	1.4485	1.8351	2.6019	2.8126	0
16/11/2013	1.4879	3.2079	1.519	1.8369	2.57	2.8049	0
17/11/2013	1.5268	3.2107	1.5607	1.8339	2.5482	2.7971	0.201
18/11/2013	1.5456	3.215	1.574	1.8327	2.4918	2.7778	0.603
19/11/2013	1.5384	3.2091	1.3723	1.8313	2.5137	2.7471	2.814
20/11/2013	1.4755	3.1985	1.4779	1.8288	2.5038	2.8177	4.221
21/11/2013	1.3374	3.1822	1.3527	1.822	2.4532	2.6946	1.005
22/11/2013	1.4145	3.1952	1.4713	1.8191	2.5245	2.7256	0.201
23/11/2013	1.4918	3.1961	1.5317	1.8083	2.5388	2.7489	0
24/11/2013	1.5461	3.2067	1.5713	1.806	2.5703	2.7751	0
25/11/2013	1.5833	3.2161	1.6153	1.8071	2.6102	2.8077	0
26/11/2013	1.6	3.219	1.6305	1.806	2.6102	2.8218	0
27/11/2013	1.6305	3.2226	1.4648	1.7967	2.634	2.906	0
28/11/2013	1.6412	3.2301	1.4816	1.8023	2.6512	2.9252	0
29/11/2013	1.6344	3.2266	1.4804	1.7998	2.6295	2.9334	0.201
30/11/2013	1.642	3.2318	1.4776	1.8063	2.6261	2.8832	0
01/12/2013	1.6525	3.2396	1.4918	1.8152	2.6725	2.9261	0
02/12/2013	1.6658	3.2476	1.5039	1.822	2.696	2.9515	0
03/12/2013	1.6601	3.2491	1.4983	1.8265	2.6634	2.9401	0
04/12/2013	1.6591	3.2526	1.4892	1.8298	2.6419	2.8923	0.201
05/12/2013	1.6688	3.253	1.4955	1.8356	2.6688	2.9715	0.402
06/12/2013	1.6643	3.2572	1.4869	1.842	2.6827	2.9233	1.407
07/12/2013	1.6368	3.2578	1.4194	1.8524	2.6829	2.9445	1.809
08/12/2013	1.6514	3.2643	1.4624	1.8572	2.664	2.9311	0
09/12/2013	1.6728	3.2729	1.4946	1.8678	2.6948	2.9344	0
10/12/2013	1.6757	3.2751	1.5014	1.8714	2.7065	2.942	0
11/12/2013	1.6815	3.2802	1.5012	1.8768	2.7143	2.9571	0
12/12/2013	1.6719	3.2799	1.4867	1.8781	2.6746	2.9325	0
13/12/2013	1.6721	3.2847	1.4832	1.8873	2.6717	2.9425	1.206
14/12/2013	1.6735	3.2864	1.4656	1.8918	2.7035	2.959	0.201
15/12/2013	1.6705	3.2956	1.4704	1.8984	2.6855	2.9309	0
16/12/2013	1.6407	3.2891	1.4554	1.9002	2.6446	2.8948	10.854
17/12/2013	1.5073	3.2701	1.3974	1.8904	2.6718	2.924	0.201
18/12/2013	1.5419	3.2635	1.4358	1.8722	2.5777	2.9047	0
19/12/2013	1.5012	3.2495	1.2337	1.8586	2.5004	2.7889	2.814
20/12/2013	1.5287	3.2533	1.3965	1.8469	2.5754	2.7916	0.804
21/12/2013	1.5503	3.2515	1.1793	1.8415	2.5411	2.8313	2.613
22/12/2013	1.4792	3.241	1.2779	1.8258	2.4987	2.7831	3.216
23/12/2013	1.4711	3.2371	1.3708	1.8093	2.4989	2.8477	0
24/12/2013	1.361	3.2175	1.0767	1.785	2.3166	2.6769	2.412
25/12/2013	1.4186	3.217	1.3275	1.7657	2.3895	2.6642	0.603
26/12/2013	1.5081	3.2244	1.3991	1.7543	2.4818	2.7485	0
27/12/2013	1.5314	3.2142	1.3529	1.736	2.3894	2.7449	2.01
28/12/2013	1.4669	3.2148	1.319	1.7356	2.5051	2.7646	0.603
29/12/2013	1.5334	3.2218	1.4185	1.7243	2.5972	2.8196	0.402
30/12/2013	1.5698	3.2244	1.4535	1.7202	2.5552	2.8593	0
31/12/2013	1.5345	3.2241	1.4409	1.7132	2.5696	2.8823	0.201

Date	Groundwater Depth (m below ground level)						Rainfall (mm)
	F1	P	N1	AB	AE	AF	
01/01/2014	1.508	3.2223	1.3349	1.7098	2.5441	2.8861	0.603
02/01/2014	1.3725	3.205	1.1194	1.7058	2.4841	2.7685	4.221
03/01/2014	1.3787	3.2066	1.3252	1.6891	2.4401	2.7205	0.201
04/01/2014	1.4596	3.206	1.3333	1.6834	2.5176	2.8108	0.201
05/01/2014	1.4658	3.2091	1.4008	1.6713	2.5234	2.7813	0.201
06/01/2014	1.4828	3.1995	1.1439	1.6691	2.4642	2.7793	2.613
07/01/2014	1.4032	3.195	1.2129	1.6646	2.4859	2.726	2.613
08/01/2014	1.4184	3.1901	1.267	1.6489	2.499	2.7096	2.211
09/01/2014	1.3217	3.1482	1.0031	1.6215	2.3903	2.6631	9.447
10/01/2014	1.3225	3.1601	1.2809	1.5942	2.3824	2.608	0
11/01/2014	1.4108	3.1689	1.3499	1.579	2.3761	2.6164	1.608
12/01/2014	1.4453	3.1648	1.3548	1.5656	2.4619	2.7849	0.201
13/01/2014	1.3993	3.1627	1.2074	1.56	2.4072	2.7535	1.809
14/01/2014	1.3945	3.1649	1.2864	1.5551	2.4174	2.7201	1.809
15/01/2014	1.3834	3.1549	1.1909	1.551	2.3856	2.7165	3.015
16/01/2014	1.3184	3.1583	1.2258	1.5443	2.349	2.6908	0.804
17/01/2014	1.3493	3.164	1.3126	1.5378	2.3392	2.6628	0
18/01/2014	1.4459	3.1712	1.3822	1.5414	2.4321	2.7769	1.809
19/01/2014	1.4381	3.1492	1.08	1.5416	2.4335	2.7486	7.437
20/01/2014	1.3648	3.1489	1.2815	1.5276	2.4219	2.6478	0
21/01/2014	1.4432	3.1569	1.3668	1.5218	2.4334	2.7355	0
22/01/2014	1.456	3.1448	1.1568	1.5192	2.4067	2.7404	3.015
23/01/2014	1.4618	3.1619	1.3698	1.5178	2.4618	2.7485	0.201
24/01/2014	1.4926	3.1636	1.4123	1.517	2.4766	2.7973	0.201
25/01/2014	1.4204	3.1362	1.1283	1.5142	2.4593	2.791	9.045
26/01/2014	1.3563	3.1335	1.2486	1.4955	2.3589	2.6901	2.814
27/01/2014	1.2817	3.1164	1.2096	1.4741	2.1878	2.5251	0.402
28/01/2014	1.3406	3.1312	1.2937	1.4671	2.2092	2.553	3.618
29/01/2014	1.2508	3.0956	1.0149	1.472	2.305	2.461	3.417
30/01/2014	1.263	3.1137	1.2591	1.4491	2.2487	2.3831	0
31/01/2014	1.3516	3.1232	1.3343	1.4359	2.2773	2.5203	3.819
01/02/2014	1.1061	3.0864	1.1537	1.4154	2.1856	2.4194	0.402
02/02/2014	1.201	3.102	1.1975	1.4218	2.1726	2.3033	2.01
03/02/2014	1.2824	3.1176	1.3312	1.4125	2.2647	2.4858	0
04/02/2014	1.3435	3.1233	1.3646	1.4111	2.2749	2.5319	0
05/02/2014	1.3672	3.1116	1.3382	1.409	2.2578	2.5919	2.211
06/02/2014	1.0905	3.1182	1.1794	1.4472	2.3853	2.5918	1.407
07/02/2014	1.0019	3.0818	1.0385	1.4232	2.2158	2.3719	5.628
08/02/2014	1.0704	3.0799	1.1567	1.3937	2.0731	2.3055	1.005
09/02/2014	1.0127	3.0567	1.0564	1.387	2.1242	2.3113	3.216
10/02/2014	1.1864	3.0816	1.2637	1.373	2.1743	2.3372	3.216
11/02/2014	1.1246	3.0749	1.2351	1.3642	2.2547	2.4901	6.231
12/02/2014	1.106	3.0589	1.196	1.3456	2.1924	2.3935	1.206
13/02/2014	1.0893	3.0549	1.1995	1.3259	2.084	2.2659	0
14/02/2014	1.2351	3.0827	1.3008	1.3328	2.1869	2.4419	0.804
15/02/2014	1.09	3.044	1.0745	1.3213	2.1262	2.3894	6.03
16/02/2014	1.1428	3.0532	1.2118	1.3331	2.2726	2.4114	0
17/02/2014	1.2298	3.0672	1.3195	1.3131	2.2208	2.4393	0.201
18/02/2014	1.3439	3.0697	1.191	1.3313	2.3147	2.5675	1.407
19/02/2014	1.3279	3.0911	1.3542	1.3486	2.3648	2.6111	0
20/02/2014	1.3612	3.0906	1.3875	1.3579	2.3365	2.636	0.804

Date	Groundwater Depth (m below ground level)						Rainfall (mm)
	F1	P	N1	AB	AE	AF	
21/02/2014	1.3499	3.1086	1.3981	1.3814	2.393	2.6605	0
22/02/2014	1.4114	3.1218	1.4267	1.4072	2.4366	2.6756	0.402
23/02/2014	1.4626	3.1327	1.4392	1.4258	2.4582	2.727	0
24/02/2014	1.4962	3.1404	1.4586	1.4478	2.4736	2.7319	0.402
25/02/2014	1.499	3.1457	1.458	1.4609	2.4475	2.7116	0.402
26/02/2014	1.5097	3.1584	1.6406	1.4896	2.5443	2.7413	1.005
27/02/2014	1.4899	3.2752	1.6726	1.4801	2.4832	2.7556	3.417
28/02/2014	1.1353	3.2711	1.5794	1.4897	2.442	2.7199	0
01/03/2014	1.3169	3.2665	1.6378	1.5123	2.4985	2.7644	0
02/03/2014	1.4071	3.2664	1.6472	1.5232	2.4711	2.7731	1.608
03/03/2014	1.1204	3.263	1.3964	1.5177	2.3969	2.6832	4.623
04/03/2014	1.2189	3.2606	1.5948	1.5286	2.5131	2.7431	0.201
05/03/2014	1.3834	3.2611	1.6474	1.5399	2.587	2.7754	0
06/03/2014	1.4693	3.2673	1.6694	1.5451	2.5895	2.8038	2.01
07/03/2014	1.3822	3.2703	1.659	1.548	2.5309	2.7505	1.608
08/03/2014	1.3306	3.2673	1.6477	1.5541	2.579	2.8216	0
09/03/2014	1.384	3.2671	1.6696	1.5615	2.5315	2.7623	0
10/03/2014	1.4663	3.2675	1.6887	1.5732	2.5822	2.766	0
11/03/2014	1.5252	3.2638	1.7047	1.5773	2.6267	2.8157	0
12/03/2014	1.5396	3.2647	1.7097	1.5837	2.6059	2.8171	0.201
13/03/2014	1.5441	3.2621	1.7096	1.5903	2.5823	2.7932	0
14/03/2014	1.5573	3.2653	1.7174	1.6005	2.5901	2.8117	0
15/03/2014	1.5653	3.2692	1.723	1.6172	2.5891	2.8032	0
16/03/2014	1.573	3.2683	1.7307	1.6253	2.5854	2.805	0
17/03/2014	1.5742	3.2686	1.7354	1.6356	2.5852	2.8097	0
18/03/2014	1.5731	3.2669	1.7327	1.6412	2.5655	2.8069	0.804
19/03/2014	1.5815	3.2658	1.7401	1.6522	2.6136	2.816	0
20/03/2014	1.5828	3.2681	1.7373	1.6573	2.5636	2.8271	0.201
21/03/2014	1.5623	3.2599	1.7271	1.6651	2.562	2.787	1.407
22/03/2014	1.5609	3.2613	1.7205	1.6708	2.5278	2.7697	1.005
23/03/2014	1.5773	3.2586	1.7325	1.6842	2.593	2.7824	1.206
24/03/2014	1.5972	3.2573	1.7454	1.6934	2.6604	2.8558	0
25/03/2014	1.5876	3.261	1.7422	1.701	2.5936	2.7918	3.015
26/03/2014	1.1876	3.2619	1.6297	1.7142	2.6824	2.8571	1.206
27/03/2014	1.3478	3.2621	1.6825	1.7109	2.5976	2.8029	0.402
28/03/2014	1.3713	3.2592	1.5814	1.7192	2.616	2.811	2.01
29/03/2014	1.3767	3.2631	1.6142	1.7288	2.6008	2.8154	0.804
30/03/2014	1.3968	3.2665	1.6752	1.737	2.583	2.7971	0
31/03/2014	1.4825	3.267	1.6925	1.7425	2.5963	2.8021	0
01/04/2014	1.5011	3.2645	1.3643	1.7461	2.593	2.8035	5.628
02/04/2014	1.302	3.2661	1.6415	1.7427	2.559	2.796	0.603
03/04/2014	1.3408	3.265	1.6481	1.7464	2.5433	2.7712	0
04/04/2014	1.3946	3.2624	1.5585	1.7489	2.5773	2.7782	2.211
05/04/2014	1.3135	3.2623	1.6507	1.7519	2.6012	2.8067	1.005
06/04/2014	1.3626	3.2666	1.6662	1.7565	2.5845	2.801	1.206
07/04/2014	1.3547	3.2636	1.6646	1.7548	2.6003	2.8228	8.442
08/04/2014	1.2053	3.2561	1.5262	1.7409	2.5718	2.7605	0.402
09/04/2014	1.3303	3.2579	1.6141	1.7372	2.6289	2.8197	0
10/04/2014	1.4237	3.2601	1.644	1.7268	2.5992	2.8021	0
11/04/2014	1.4867	3.257	1.659	1.7232	2.5988	2.7887	0
12/04/2014	1.5291	3.2598	1.6716	1.7228	2.5841	2.7984	0

Date	Groundwater Depth (m below ground level)						Rainfall (mm)
	F1	P	N1	AB	AE	AF	
13/04/2014	1.5485	3.2569	1.6796	1.7301	2.6154	2.7935	0
14/04/2014	1.5671	3.258	1.6918	1.7389	2.6204	2.7928	0
15/04/2014	1.5632	3.2355	1.681	1.7476	2.6382	2.8311	0.201
16/04/2014	1.4614	3.2362	1.558	1.7536	2.6093	2.8166	0
17/04/2014	1.458	3.2357	1.556	1.7606	2.573	2.8024	0
18/04/2014	1.4654	3.2377	1.5561	1.7651	2.5937	2.796	0
19/04/2014	1.4698	3.2394	1.5607	1.771	2.5987	2.8116	0
20/04/2014	1.469	3.2393	1.5496	1.7748	2.5821	2.8263	0.201
21/04/2014	1.4597	3.2441	1.5521	1.7822	2.5552	2.7797	0.201
22/04/2014	1.4727	3.25	1.5652	1.7914	2.5766	2.7971	1.407
23/04/2014	1.4763	3.2564	1.5717	1.7998	2.6244	2.8141	0
24/04/2014	1.4894	3.2573	1.5786	1.8046	2.6435	2.833	0.201
25/04/2014	1.4926	3.2601	1.5783	1.8133	2.6186	2.8391	3.819
26/04/2014	1.1827	3.2151	1.3235	1.7984	2.5011	2.7865	7.638
27/04/2014	1.1699	3.2254	1.4769	1.8065	2.5155	2.7537	0
28/04/2014	1.3204	3.2357	1.5139	1.812	2.5783	2.791	0
29/04/2014	1.401	3.2431	1.5306	1.8186	2.5891	2.8063	0
30/04/2014	1.4361	3.2501	1.5436	1.8235	2.5859	2.8104	0
01/05/2014	1.4531	3.251	1.5474	1.8246	2.5736	2.7991	0.804
02/05/2014	1.4728	3.2588	1.5624	1.8299	2.6485	2.82	0
03/05/2014	1.4884	3.2607	1.5782	1.8339	2.6664	2.8621	0
04/05/2014	1.4845	3.2618	1.5878	1.841	2.6185	2.842	0
05/05/2014	1.4737	3.262	1.5815	1.8411	2.5741	2.825	0
06/05/2014	1.4634	3.2602	1.5753	1.845	2.5333	2.7737	2.211
07/05/2014	1.4621	3.2632	1.5734	1.85	2.5676	2.787	0.201
08/05/2014	1.4852	3.2699	1.5851	1.8602	2.6143	2.8458	2.412
09/05/2014	1.3878	3.2513	1.5062	1.8584	2.5882	2.8038	6.432
10/05/2014	1.3203	3.2444	1.5247	1.8601	2.5778	2.8535	3.618
11/05/2014	1.1455	3.2391	1.4807	1.8602	2.5355	2.7663	5.628
12/05/2014	0.962	3.228	1.3622	1.8577	2.5835	2.8031	4.623
13/05/2014	0.907	3.1999	1.1194	1.8403	2.5711	2.7858	9.648
14/05/2014	0.9632	3.1778	1.2749	1.7947	2.5305	2.7375	0
15/05/2014	1.2033	3.1884	1.4179	1.7724	2.5436	2.7605	0
16/05/2014	1.3107	3.188	1.4591	1.7588	2.5379	2.7794	0
17/05/2014	1.3606	3.1914	1.4758	1.7497	2.5106	2.7709	0
18/05/2014	1.381	3.1915	1.4824	1.7451	2.4777	2.7658	0
19/05/2014	1.3999	3.1973	1.4828	1.7466	2.4735	2.7536	0
20/05/2014	1.4261	3.2041	1.4917	1.757	2.5131	2.7588	0.603
21/05/2014	1.4508	3.2092	1.5057	1.765	2.5688	2.7927	0.402
22/05/2014	1.4456	3.2087	1.5014	1.769	2.5219	2.774	2.01
23/05/2014	1.4221	3.2056	1.4721	1.7791	2.5562	2.7943	2.412
24/05/2014	1.3582	3.2338	1.4708	1.7724	2.5378	2.7881	2.211
25/05/2014	1.3047	3.2233	1.3835	1.7718	2.5201	2.776	2.613
26/05/2014	1.3397	3.2169	1.4076	1.7703	2.5191	2.787	3.216
27/05/2014	1.4674	3.2212	1.5239	1.7691	2.4942	2.7779	0
28/05/2014	1.5662	3.2266	1.543	1.7698	2.4904	2.777	3.015
29/05/2014	1.3099	3.2209	1.4855	1.7677	2.4875	2.7623	1.809
30/05/2014	1.3448	3.2214	1.4958	1.7682	2.5128	2.7713	0
31/05/2014	1.5138	3.2269	1.5426	1.7679	2.5124	2.7855	0
01/06/2014	1.6037	3.2308	1.5579	1.7678	2.5028	2.785	0
02/06/2014	1.6334	3.2359	1.5703	1.7748	2.4845	2.7745	1.608

Date	Groundwater Depth (m below ground level)						Rainfall (mm)
	F1	P	N1	AB	AE	AF	
03/06/2014	1.5736	3.2344	1.5601	1.7765	2.4677	2.7652	1.206
04/06/2014	1.6315	3.2369	1.5695	1.7789	2.4403	2.757	0.201
05/06/2014	1.6213	3.2416	1.573	1.784	2.4739	2.743	0.804
06/06/2014	1.671	3.2492	1.5928	1.7959	2.5033	2.7678	0
07/06/2014	1.6837	3.2568	1.6017	1.8082	2.4929	2.7633	6.633
08/06/2014	1.4697	3.238	1.4467	1.8104	2.5073	2.7674	1.407
09/06/2014	1.459	3.2378	1.488	1.8155	2.5007	2.7796	7.236
10/06/2014	1.1967	3.2147	1.408	1.7942	2.4322	2.6873	1.005
11/06/2014	1.369	3.2181	1.4585	1.7822	2.4746	2.7137	0.804
12/06/2014	1.5263	3.221	1.5169	1.7749	2.5248	2.7767	0
13/06/2014	1.6084	3.2256	1.5472	1.7705	2.5173	2.7794	0
14/06/2014	1.6424	3.2319	1.5635	1.7716	2.5259	2.7767	0
15/06/2014	1.672	3.2383	1.5803	1.7801	2.5553	2.7941	2.01
16/06/2014	1.6295	3.2373	1.5838	1.7818	2.5603	2.8012	0
17/06/2014	1.6665	3.2419	1.5959	1.7907	2.5695	2.8074	0
18/06/2014	1.6829	3.248	1.6049	1.8024	2.5685	2.8127	0
19/06/2014	1.6836	3.2513	1.6077	1.8114	2.5578	2.8054	0
20/06/2014	1.6907	3.2548	1.6126	1.8191	2.5691	2.8139	0
21/06/2014	1.696	3.2581	1.6099	1.8275	2.5662	2.811	0
22/06/2014	1.7051	3.2657	1.6194	1.8376	2.5865	2.8224	0
23/06/2014	1.717	3.2711	1.6286	1.8485	2.6056	2.8368	0
24/06/2014	1.7182	3.2755	1.6355	1.8582	2.6093	2.847	0
25/06/2014	1.7206	3.2798	1.6395	1.864	2.607	2.8448	0
26/06/2014	1.7267	3.2848	1.6411	1.8716	2.5977	2.8412	0
27/06/2014	1.7262	3.286	1.6436	1.8781	2.594	2.8402	0.402
28/06/2014	1.6563	3.2854	1.6126	1.8831	2.5974	2.8354	3.015
29/06/2014	1.7071	3.2893	1.6076	1.8881	2.6162	2.8392	0.402
30/06/2014	1.7208	3.2956	1.6344	1.895	2.6421	2.86	0
01/07/2014	1.7394	3.3005	1.6503	1.9057	2.6548	2.8595	0
02/07/2014	1.7488	3.3026	1.6593	1.913	2.6713	2.8854	0
03/07/2014	1.7491	3.3072	1.6597	1.9211	2.6517	2.8787	0.201
04/07/2014	1.7427	3.3061	1.6491	1.926	2.6151	2.877	0.201
05/07/2014	1.6151	3.3004	1.6113	1.9281	2.571	2.8092	7.035
06/07/2014	1.6078	3.2938	1.5773	1.9337	2.6191	2.8493	2.01
07/07/2014	1.4749	3.2826	1.4388	1.9347	2.6423	2.8513	9.849
08/07/2014	1.5707	3.2857	1.5599	1.9405	2.6592	2.8747	0.201
09/07/2014	1.6151	3.292	1.5926	1.9472	2.6808	2.8772	0.201
10/07/2014	1.6836	3.2955	1.6078	1.9516	2.6701	2.8802	0
11/07/2014	1.7064	3.3014	1.617	1.9577	2.6695	2.8807	0
12/07/2014	1.724	3.3047	1.6212	1.9626	2.6579	2.8859	0.201
13/07/2014	1.7243	3.3032	1.6213	1.9673	2.6164	2.8434	0.201
14/07/2014	1.7353	3.3086	1.6302	1.9717	2.6683	2.8768	0
15/07/2014	1.682	3.3168	1.639	1.9779	2.691	2.8758	0.402
16/07/2014	1.7489	3.3139	1.6402	1.9814	2.7071	2.9066	0
17/07/2014	1.754	3.3182	1.6247	1.9878	2.7129	2.9044	0
18/07/2014	1.7551	3.3207	1.6402	1.9922	2.6848	2.9113	0
19/07/2014	1.7253	3.3218	1.6468	1.9973	2.671	2.8888	13.668
20/07/2014	0.889	3.2753	1.4517	1.9775	2.611	2.8431	0.402
21/07/2014	1.4514	3.28	1.5473	1.9727	2.6583	2.863	0
22/07/2014	1.6143	3.2858	1.5716	1.9729	2.6875	2.8869	0
23/07/2014	1.6759	3.2896	1.5843	1.9753	2.6848	2.8983	0

Date	Groundwater Depth (m below ground level)						Rainfall (mm)
	F1	P	N1	AB	AE	AF	
24/07/2014	1.7013	3.2935	1.5952	1.9784	2.6666	2.8799	0
25/07/2014	1.7199	3.2977	1.6085	1.9846	2.6749	2.8857	0
26/07/2014	1.7257	3.3017	1.6154	1.9894	2.6744	2.8817	0
27/07/2014	1.7416	3.3054	1.6246	1.9945	2.6798	2.8815	0.201
28/07/2014	1.7449	3.3069	1.6338	1.9981	2.6739	2.8728	0
29/07/2014	1.7551	3.3126	1.6438	2.0034	2.6987	2.8954	0
30/07/2014	1.7562	3.3157	1.6487	2.0072	2.6916	2.8943	0
31/07/2014	1.7597	3.3173	1.6532	2.0109	2.6862	2.8947	0.201
01/08/2014	1.7605	3.3145	1.7369	2.0071	2.6763	2.8995	1.608
02/08/2014	1.6938	3.3079	1.61	2.0119	2.6551	2.8897	14.472
03/08/2014	1.3214	3.2904	1.5467	2.0073	2.645	2.86	1.407
04/08/2014	1.6703	3.2982	1.648	2.013	2.6993	2.8861	0
05/08/2014	1.7192	3.3016	1.6798	2.0157	2.7188	2.9158	0
06/08/2014	1.6788	3.2963	1.6916	2.0171	2.6666	2.8843	3.417
07/08/2014	1.6227	3.3027	1.69	2.0232	2.6954	2.8865	0
08/08/2014	1.7013	3.3037	1.7034	2.0251	2.692	2.9165	0
09/08/2014	1.7181	3.3068	1.7018	2.0276	2.65	2.8625	0
10/08/2014	1.7484	3.3072	1.7093	2.0316	2.6636	2.9165	7.638
11/08/2014	1.3961	3.2885	1.6025	2.0266	2.6527	2.8689	0
12/08/2014	1.5784	3.2891	1.6486	2.0276	2.6644	2.8864	0
13/08/2014	1.6672	3.2905	1.6664	2.0273	2.6571	2.8692	0.402
14/08/2014	1.7203	3.2952	1.6867	2.0305	2.7001	2.9004	1.206
15/08/2014	1.7388	3.3004	1.7029	2.0354	2.7278	2.9034	0
16/08/2014	1.758	3.3031	1.7171	2.038	2.7495	2.9398	0
17/08/2014	1.7551	3.3007	1.7153	2.0394	2.6775	2.8995	2.613
18/08/2014	1.7365	3.3021	1.7145	2.04	2.6714	2.8652	3.618
19/08/2014	1.6549	3.2976	1.6622	2.0436	2.7039	2.8954	10.452
20/08/2014	1.2806	3.2752	1.5353	2.032	2.6851	2.8943	0.402
21/08/2014	1.5502	3.2725	1.6039	2.0216	2.6656	2.895	0
22/08/2014	1.515	3.2804	1.6341	2.0038	2.6351	2.8107	3.216
23/08/2014	1.4581	3.2492	1.6426	2.0011	2.6716	2.8344	5.025
24/08/2014	1.3121	3.241	1.549	2.0004	2.6828	2.8522	0
25/08/2014	1.4488	3.2403	1.6124	1.9964	2.6417	2.8539	3.015
26/08/2014	0.9819	3.2103	1.0745	1.9796	2.5943	2.7723	4.824
27/08/2014	1.1423	3.2068	1.4441	1.9592	2.651	2.8395	0
28/08/2014	1.3853	3.206	1.5099	1.9443	2.589	2.7941	0.603
29/08/2014	1.4796	3.2065	1.5531	1.937	2.6078	2.8007	0
30/08/2014	1.5458	3.2118	1.5787	1.9335	2.6377	2.8019	1.608
31/08/2014	1.5576	3.2144	1.5315	1.9344	2.6689	2.8272	3.216
01/09/2014	1.5305	3.2172	1.5896	1.9352	2.6662	2.8278	0.804
02/09/2014	1.5349	3.2224	1.6181	1.9337	2.6897	2.8426	0
03/09/2014	1.5756	3.2281	1.642	1.9395	2.6832	2.8441	0
04/09/2014	1.5985	3.2344	1.6544	1.9431	2.6728	2.8432	0
05/09/2014	1.6049	3.2358	1.6571	1.9461	2.6594	2.8335	0
06/09/2014	1.6125	3.2408	1.6654	1.9515	2.6525	2.829	0.201
07/09/2014	1.6175	3.2435	1.6723	1.9523	2.6542	2.8263	0
08/09/2014	1.6242	3.2492	1.686	1.9586	2.68	2.8392	0
09/09/2014	1.633	3.2543	1.6954	1.9692	2.6987	2.8596	0
10/09/2014	1.6365	3.2606	1.7035	1.978	2.6977	2.8591	0
11/09/2014	1.6434	3.2687	1.7085	1.9883	2.7041	2.856	0
12/09/2014	1.648	3.271	1.7131	1.9946	2.7185	2.8622	0

Date	Groundwater Depth (m below ground level)						Rainfall (mm)
	F1	P	N1	AB	AE	AF	
13/09/2014	1.6531	3.2794	1.7208	2.0047	2.7331	2.8752	0
14/09/2014	1.6568	3.2818	1.7304	2.0121	2.7273	2.8854	0
15/09/2014	1.6497	3.2834	1.7289	2.0141	2.6995	2.8719	0
16/09/2014	1.6521	3.2887	1.7285	2.0221	2.6915	2.8583	0.402
17/09/2014	1.6588	3.2907	1.7322	2.0282	2.7033	2.8665	0
18/09/2014	1.6602	3.2951	1.7326	2.0322	2.6995	2.8631	0
19/09/2014	1.663	3.2998	1.7384	2.036	2.7189	2.8736	0
20/09/2014	1.6689	3.3041	1.7421	2.0413	2.7415	2.8772	0.603
21/09/2014	1.6694	3.3042	1.7525	2.0434	2.7835	2.9012	0.201
22/09/2014	1.6707	3.3018	1.7594	2.0427	2.7792	2.9156	0
23/09/2014	1.6686	3.3033	1.7615	2.0476	2.7459	2.9002	0
24/09/2014	1.6475	3.3001	1.7474	2.0505	2.7062	2.8578	4.02
25/09/2014	1.6393	3.304	1.716	2.0537	2.751	2.8927	0
26/09/2014	1.6611	3.3124	1.7416	2.0618	2.7591	2.8796	0
27/09/2014	1.6725	3.3106	1.7515	2.0619	2.7931	2.9195	0
28/09/2014	1.6754	3.3155	1.7595	2.0683	2.7661	2.9164	0
29/09/2014	1.6784	3.32	1.7639	2.0713	2.7676	2.9087	0
30/09/2014	1.6796	3.3241	1.7681	2.0758	2.7764	2.9075	0
01/10/2014	1.6837	3.3264	1.7717	2.0813	2.7833	2.9026	0
02/10/2014	1.6921	3.3245	1.778	2.0798	2.8254	2.9457	0.201
03/10/2014	1.6836	3.3257	1.7829	2.0847	2.7664	2.9149	0
04/10/2014	1.6755	3.3256	1.7827	2.0897	2.7135	2.8643	5.628
05/10/2014	1.6194	3.317	1.704	2.0884	2.7903	2.9182	0
06/10/2014	1.6359		1.7277	2.0915	2.6996	2.8914	8.643
07/10/2014	1.1652		1.5612	2.0793	2.6505	2.831	2.01
08/10/2014	1.3717		1.5568	2.08	2.689	2.8762	2.01
09/10/2014	1.4407	3.2772	1.3898	2.0767	2.66	2.8251	7.638
10/10/2014	1.2619	3.265	1.4449	2.074	2.7183	2.8551	1.608
11/10/2014	1.4122		1.5078	2.0613	2.714	2.8675	0
12/10/2014	1.4981	3.2637	1.5883	2.0529	2.7216	2.8738	0
13/10/2014	1.5686	3.268	1.6192	2.0468	2.6878	2.862	0
14/10/2014	1.4771	3.2547	1.2899	2.0411	2.6877	2.8449	6.03
15/10/2014	1.356		1.5372	2.0337	2.6703	2.8606	0
16/10/2014	1.3466	3.2394	1.3562	2.0213	2.617	2.8051	2.814
17/10/2014	1.3215	3.2395	1.4015	2.0134	2.638	2.8049	2.01
18/10/2014	1.3709	3.2386	1.4559	2.0042	2.6226	2.8047	1.206
19/10/2014	1.3957	3.24	1.5554	1.994	2.6487	2.8272	0
20/10/2014	1.5364	3.2454	1.6034	1.9834	2.6859	2.8528	1.206
21/10/2014	1.535	3.2359	1.6026	1.9705	2.5876	2.7887	2.412
22/10/2014	1.396	3.2336	1.358	1.9667	2.7286	2.8701	2.412
23/10/2014	1.4053		1.5387	1.9593	2.664	2.8538	0
24/10/2014	1.4911	3.2374	1.5826	1.9538	2.6387	2.8255	0.603
25/10/2014	1.5443	3.238	1.5921	1.9455	2.6551	2.8244	0.201
26/10/2014	1.5793	3.2458	1.6154	1.9453	2.6743	2.8426	0
27/10/2014	1.5952	3.248	1.6363	1.9455	2.6738	2.843	0.201
28/10/2014	1.6336	3.2525	1.6428	1.9432	2.6144	2.9142	0.603
29/10/2014	1.316	3.2615	1.4841	1.9774	2.643	2.9082	2.211
30/10/2014	1.3759	3.2657	1.5061	1.9788	2.6358	2.9177	0.603
31/10/2014	1.4631	3.273	1.5145	1.983	2.6375	2.9298	0
01/11/2014	1.4839	3.2762	1.5199	1.9837	2.6272	2.9122	0.201
02/11/2014	1.4624	3.2736	1.5139	1.9803	2.5813	2.8877	0.804

Date	Groundwater Depth (m below ground level)						Rainfall (mm)
	F1	P	N1	AB	AE	AF	
03/11/2014	1.4721	3.2709	1.51	1.9793	2.5481	2.8875	1.407
04/11/2014	1.4249	3.2669	1.4833	1.9772	2.5675	2.8468	0.201
05/11/2014	1.4872	3.2784	1.5205	1.9867	2.6625	2.9095	0
06/11/2014	1.5144	3.2766	1.5334	1.9869	2.679	2.9681	0
07/11/2014	1.5027	3.282	1.5118	1.9896	2.5668	2.8798	6.633
08/11/2014	1.3566	3.2638	1.3173	1.9848	2.631	2.9249	3.216
09/11/2014	1.2713	3.2604	1.3689	1.9767	2.5856	2.8644	0
10/11/2014	1.3588	3.2599	1.4513	1.9684	2.5791	2.8794	0.402
11/11/2014	1.406	3.2617	1.2987	1.9642	2.5526	2.8627	1.608
12/11/2014	1.3678	3.2602	1.3678	1.9592	2.5411	2.8407	1.407
13/11/2014	1.3336	3.2651	1.4018	1.9614	2.6152	2.9097	0
14/11/2014	1.4027	3.2636	1.4365	1.9578	2.569	2.8697	4.824
15/11/2014	1.3224	3.2508	1.3364	1.944	2.5666	2.859	0.201
16/11/2014	1.3683	3.2539	1.4236	1.9374	2.5543	2.8404	0
17/11/2014	1.4279	3.2555	1.467	1.931	2.5572	2.849	3.015
18/11/2014	1.3922	3.2523	1.3911	1.9234	2.5992	2.8613	0
19/11/2014	1.4371	3.252	1.46	1.9182	2.6095	2.862	0
20/11/2014	1.4778	3.2617	1.4974	1.917	2.6436	2.894	0
21/11/2014	1.4907	3.258	1.5065	1.9115	2.6188	2.9157	0.402
22/11/2014	1.3408	3.2311	1.0567	1.9005	2.5325	2.8348	8.04
23/11/2014	1.1858	3.2381	1.3852	1.891	2.5079	2.7655	0.603
24/11/2014	1.2759	3.2334	1.4397	1.876	2.5101	2.78	0
25/11/2014	1.3791	3.2341	1.4764	1.8682	2.5266	2.841	0
26/11/2014	1.4202	3.2341	1.376	1.8632	2.4885	2.8328	4.02
27/11/2014	1.3913	3.2205	1.3892	1.8031	2.4614	2.7171	0.804
28/11/2014	1.4092	3.2236	1.42	1.7977	2.4713	2.6916	0
29/11/2014	1.4888	3.2277	1.4838	1.7932	2.5167	2.7147	0.201
30/11/2014	1.5552	3.2358	1.5127	1.7938	2.5525	2.7436	0
01/12/2014	1.5931	3.2349	1.5368	1.7884	2.5628	2.7588	0
02/12/2014	1.6102	3.2418	1.5499	1.7878	2.571	2.7314	0.201
03/12/2014	1.6274	3.2411	1.5636	1.784	2.6306	2.7996	0
04/12/2014	1.6204	3.2401	1.5632	1.7837	2.5774	2.7888	0
05/12/2014	1.6235	3.2501	1.5694	1.7893	2.5853	2.7679	0.201
06/12/2014	1.6371	3.2515	1.567	1.7911	2.6473	2.813	0.201
07/12/2014	1.6381	3.2554	1.5677	1.7989	2.5771	2.7893	0.402
08/12/2014	1.639	3.2591	1.5784	1.8018	2.5963	2.781	1.005
09/12/2014	1.6444	3.2638	1.5771	1.8107	2.6709	2.861	0
10/12/2014	1.6202	3.2597	1.3962	1.8113	2.5676	2.7592	3.618
11/12/2014	1.6001	3.255	1.4652	1.8114	2.547	2.7608	1.407
12/12/2014	1.5696	3.2397	1.1965	1.8036	2.4658	2.7076	9.447
13/12/2014	1.3769	3.2348	1.3857	1.7801	2.5024	2.6563	0.402
14/12/2014	1.4483	3.2342	1.4657	1.767	2.4487	2.6749	0.201
15/12/2014	1.482	3.2334	1.3376	1.7586	2.4628	2.6754	4.02
16/12/2014	1.4639	3.2291	1.4247	1.7468	2.4898	2.7005	0.603
17/12/2014	1.39	3.205	0.9895	1.7311	2.4135	2.6606	5.829
18/12/2014	1.2892	3.2105	1.3494	1.7076	2.4092	2.6333	0.201
19/12/2014	1.3627	3.2081	1.2134	1.6839	2.416	2.6103	2.211
20/12/2014	1.41	3.2018	1.4317	1.6693	2.4851	2.6747	0.201
21/12/2014	1.4908	3.2082	1.4904	1.6622	2.5147	2.7475	0
22/12/2014	1.5244	3.2106	1.5106	1.6538	2.4593	2.7124	0
23/12/2014	1.5526	3.2156	1.5149	1.653	2.4921	2.7272	0

Date	Groundwater Depth (m below ground level)						Rainfall (mm)
	F1	P	N1	AB	AE	AF	
24/12/2014	1.569	3.2168	1.5255	1.648	2.4996	2.6913	0.804
25/12/2014	1.5899	3.2206	1.5401	1.6528	2.5789	2.7449	1.407
26/12/2014	1.5912	3.2171	1.4548	1.6547	2.5979	2.8084	1.206
27/12/2014	1.1744	3.1794	1.0807	1.6308	2.4502	2.694	4.02
28/12/2014	1.1992	3.1849	1.3525	1.6123	2.476	2.6024	0
29/12/2014	1.3954	3.188	1.4758	1.6045	2.4877	2.6401	0
30/12/2014	1.4973	3.1904	1.5129	1.597	2.4776	2.6816	0
31/12/2014	1.537	3.1936	1.5288	1.595	2.4546	2.6861	0
01/01/2015	1.56	3.2062	1.5189	1.6049	2.4692	2.7233	0.201
02/01/2015	1.5632	3.2138	1.4723	1.6125	2.4727	2.6535	0.804
03/01/2015	1.5482	3.2072	1.5446	1.6144	2.5068	2.7465	4.824
04/01/2015	1.3776	3.2006	1.416	1.6136	2.536	2.7194	0
05/01/2015	1.4294	3.2065	1.5136	1.6089	2.489	2.7176	0
06/01/2015	1.4908	3.2074	1.526	1.6047	2.4328	2.6708	1.005
07/01/2015	1.521	3.2104	1.5031	1.6106	2.4953	2.726	1.005
08/01/2015	1.4946	3.2162	1.3643	1.6145	2.4713	2.6779	2.412
09/01/2015	1.3736	3.2092	1.3809	1.6127	2.4527	2.6957	0.804
10/01/2015	1.3719	3.207	1.4423	1.6051	2.4377	2.6729	0.603
11/01/2015	1.4129	3.2097	1.5011	1.6028	2.5073	2.6994	0
12/01/2015	1.4885	3.2096	1.5267	1.6014	2.4669	2.7266	0.402
13/01/2015	1.5194	3.2117	1.5233	1.5998	2.4446	2.6882	0.402
14/01/2015	1.5183	3.2097	1.5238	1.6005	2.4815	2.6974	0
15/01/2015	1.5184	3.2104	1.2827	1.6032	2.3818	2.6431	2.211
16/01/2015	1.4499	3.2178	1.4792	1.618	2.5143	2.6783	1.407
17/01/2015	1.3986	3.2092	1.4207	1.6184	2.5539	2.7366	0.201
18/01/2015	1.4508	3.2138	1.4888	1.6148	2.528	2.707	0.603
19/01/2015	1.5374	3.218	1.5208	1.6218	2.5657	2.7539	0
20/01/2015	1.5445	3.2188	1.535	1.6194	2.5201	2.7267	0.201
21/01/2015	1.5607	3.2202	1.5335	1.6226	2.4866	2.6878	0.201
22/01/2015	1.5913	3.2303	1.5111	1.6371	2.5924	2.7371	0.402
23/01/2015	1.5991	3.2336	1.553	1.6454	2.6052	2.7895	0.201
24/01/2015	1.3533	3.234	1.513	1.6603	2.5987	2.8194	1.809
25/01/2015	1.3127	3.2335	1.6632	1.6675	2.6382	2.886	0
26/01/2015	1.3295	3.2394	1.6884	1.6707	2.5709	2.8261	0.402
27/01/2015	1.3468	3.2438	1.6916	1.6793	2.6244	2.8679	0
28/01/2015	1.3433	3.233	1.6776	1.6712	2.5118	2.8499	1.206
29/01/2015	1.3202	3.2293	1.6462	1.6681	2.4581	2.8129	0.804
30/01/2015	1.2657	3.2252	1.4264	1.6633	2.4114	2.7043	1.809
31/01/2015	1.1721	3.2192	1.2161	1.6659	2.4611	2.7318	3.417
01/02/2015	1.0901	3.2192	1.497	1.6531	2.5018	2.7296	0
02/02/2015	1.1984	3.2176	1.5929	1.6334	2.5009	2.7542	0
03/02/2015	1.2871	3.2187	1.6275	1.6224	2.4914	2.743	0
04/02/2015	1.3472	3.2287	1.665	1.6289	2.5661	2.7901	0
05/02/2015	1.3717	3.2335	1.6865	1.6385	2.5854	2.8272	0
06/02/2015	1.3798	3.2366	1.7004	1.6369	2.6013	2.8338	0
07/02/2015	1.3832	3.2388	1.7133	1.6434	2.6005	2.8369	0
08/02/2015	1.3941	3.2456	1.7316	1.6552	2.6142	2.8548	0
09/02/2015	1.3913	3.2487	1.7411	1.6629	2.5849	2.8463	0
10/02/2015	1.3936	3.2543	1.7469	1.6727	2.5791	2.8457	0
11/02/2015	1.3902	3.2518	1.7456	1.6767	2.5495	2.8366	0
12/02/2015	1.39	3.2585	1.7474	1.6851	2.5466	2.8326	0

Date	Groundwater Depth (m below ground level)						Rainfall (mm)
	F1	P	N1	AB	AE	AF	
13/02/2015	1.388	3.2548	1.7398	1.6896	2.4992	2.8483	0.201
14/02/2015	1.3745	3.2647	1.7342	1.6982	2.5078	2.7683	1.206
15/02/2015	1.4011	3.2727	1.7598	1.7145	2.6016	2.8393	0
16/02/2015	1.4064	3.2715	1.7688	1.7183	2.5909	2.8475	1.407
17/02/2015	1.396	3.2788	1.7731	1.7293	2.6809	2.8618	0
18/02/2015	1.4167	3.2807	1.7896	1.7354	2.6775	2.9215	0
19/02/2015	1.3994	3.2801	1.7748	1.7373	2.5831	2.8858	1.407
20/02/2015	1.3727	3.2765	1.753	1.74	2.5392	2.8406	0
21/02/2015	1.3723	3.2761	1.7271	1.741	2.515	2.8055	1.206
22/02/2015	1.3811	3.281	1.6722	1.7518	2.5873	2.8842	1.005
23/02/2015	1.272	3.2751	1.557	1.7511	2.5002	2.8096	0.603
24/02/2015	1.2722	3.2854	1.4829	1.7798	2.5663	2.7389	2.412
25/02/2015	1.2589	3.2842	1.6494	1.7901	2.6496	2.8287	0.402
26/02/2015	1.3072	3.2882	1.683	1.7942	2.6204	2.8377	2.412
27/02/2015	1.4471	3.2799	1.6212	1.7894	2.6355	2.8221	0
28/02/2015	1.5199	3.2834	1.6712	1.7926	2.5774	2.834	0
01/03/2015	1.5336	3.2865	1.6632	1.7865	2.5191	2.7565	1.005
02/03/2015	1.5005	3.2825	1.61	1.7874	2.5695	2.7656	2.01
03/03/2015	1.5515	3.2865	1.6849	1.7906	2.621	2.8098	0.201
04/03/2015	1.5989	3.2964	1.7154	1.7981	2.6671	2.8059	0
05/03/2015	1.6402	3.2974	1.7442	1.8017	2.7216	2.8799	0
06/03/2015	1.6433	3.3016	1.7538	1.8038	2.6749	2.8708	0
07/03/2015	1.6318	3.2995	1.7425	1.799	2.6043	2.8236	0
08/03/2015	1.634	3.3038	1.7398	1.8048	2.6118	2.8015	3.618
09/03/2015	1.5606	3.2958	1.6783	1.8041	2.6606	2.8694	0
10/03/2015	1.5891	3.3047	1.6803	1.8091	2.6556	2.8129	0.201
11/03/2015	1.6215	3.3021	1.6818	1.8092	2.6532	2.8556	0.201
12/03/2015	1.6255	3.3023	1.6803	1.8121	2.6484	2.8491	0
13/03/2015	1.6265	3.3045	1.5838	1.8163	2.6423	2.8151	7.638
14/03/2015	1.2088	3.2873	1.562	1.808	2.6268	2.8048	0
15/03/2015	1.4015	3.2852	1.6424	1.7957	2.5639	2.7601	0
16/03/2015	1.5053	3.287	1.6629	1.7872	2.5444	2.766	0
17/03/2015	1.5611	3.29	1.6737	1.7826	2.5526	2.7482	0.603
18/03/2015	1.5931	3.291	1.6916	1.782	2.6069	2.7716	0
19/03/2015	1.612	3.2954	1.706	1.7838	2.6249	2.8021	0
20/03/2015	1.6188	3.297	1.7093	1.7856	2.6089	2.8186	0
21/03/2015	1.6165	3.3018	1.7032	1.7867	2.5954	2.7851	0
22/03/2015	1.6243	3.2943	1.7092	1.7886	2.6304	2.8246	0
23/03/2015	1.6179	3.2924	1.687	1.791	2.569	2.7886	0.201
24/03/2015	1.6182	3.2955	1.6821	1.7936	2.572	2.7825	1.005
25/03/2015	1.6202	3.3014	1.6872	1.8032	2.6031	2.7903	0.402
26/03/2015	1.6232	3.2939	1.6645	1.8026	2.5505	2.775	3.618
27/03/2015	1.4575	3.3032	1.6646	1.8195	2.6623	2.8226	0
28/03/2015	1.5426	3.3016	1.6784	1.8216	2.6233	2.8682	1.407
29/03/2015	1.5332	3.3026	1.6498	1.8226	2.5816	2.8283	4.623
30/03/2015	1.3397	3.2906	1.5555	1.818	2.5962	2.7795	1.206
31/03/2015	1.1824	3.271	1.3454	1.8001	2.4975	2.695	6.633
01/04/2015	1.2333	3.2716	1.533	1.7794	2.5945	2.7546	0.804
02/04/2015	1.3224	3.2556	1.2963	1.7497	2.5358	2.7295	3.216
03/04/2015	1.2287	3.2469	1.5194	1.722	2.4855	2.7183	1.608
04/04/2015	1.1956	3.2436	1.5063	1.7047	2.5274	2.7227	0.201

Date	Groundwater Depth (m below ground level)						Rainfall (mm)
	F1	P	N1	AB	AE	AF	
05/04/2015	1.3262	3.2433	1.5624	1.6892	2.5422	2.738	0
06/04/2015	1.4472	3.2449	1.605	1.6778	2.5681	2.7469	0
07/04/2015	1.532	3.2474	1.6286	1.6727	2.5953	2.7769	0
08/04/2015	1.5603	3.2478	1.628	1.6714	2.5819	2.7816	0.201
09/04/2015	1.5694	3.2495	1.5995	1.6741	2.5599	2.7826	0
10/04/2015	1.5748	3.2482	1.5654	1.6763	2.543	2.7847	0
11/04/2015	1.5731	3.2519	1.6305	1.681	2.5163	2.7263	0.603
12/04/2015	1.5948	3.2548	1.6651	1.6968	2.6235	2.8215	0.603
13/04/2015	1.5956	3.2556	1.6879	1.7027	2.6492	2.8179	0.402
14/04/2015	1.6031	3.2581	1.6802	1.7164	2.6144	2.8191	0
15/04/2015	1.601	3.2611	1.6741	1.7243	2.59	2.8077	0
16/04/2015	1.6098	3.2654	1.6728	1.7358	2.6146	2.8268	0
17/04/2015	1.6175	3.2711	1.6654	1.7483	2.6258	2.809	0
18/04/2015	1.6293	3.2757	1.6723	1.7622	2.6924	2.8635	0
19/04/2015	1.6316	3.2752	1.6675	1.7678	2.6694	2.8692	0
20/04/2015	1.629	3.2783	1.6757	1.7767	2.6698	2.8386	0
21/04/2015	1.6425	3.2857	1.6648	1.7916	2.704	2.8739	0
22/04/2015	1.6456	3.289	1.6591	1.8004	2.6955	2.8859	0
23/04/2015	1.6338	3.2876	1.6395	1.8051	2.6368	2.8608	0
24/04/2015	1.6279	3.2885	1.6405	1.8125	2.6025	2.8338	0
25/04/2015	1.6267	3.2907	1.6369	1.8213	2.5864	2.8098	2.412
26/04/2015	1.6277	3.2902	1.6509	1.8271	2.6452	2.8335	0
27/04/2015	1.6328	3.2919	1.6776	1.8313	2.6598	2.8502	0
28/04/2015	1.6378	3.2962	1.683	1.8387	2.664	2.8384	0
29/04/2015	1.6487	3.2964	1.6749	1.8492	2.6536	2.8595	1.608
30/04/2015	1.632	3.2974	1.6641	1.8562	2.654	2.841	1.005
01/05/2015	1.6306	3.3044	1.6528	1.8517	2.6941	2.8437	0
02/05/2015	1.6525	3.3034	1.6646	1.8384	2.5791	2.821	0.603
03/05/2015	1.6764	3.281	1.5966	1.8412	2.5345	2.8082	4.623
04/05/2015	1.7042	3.2955	1.6781	1.8541	2.569	2.8207	0.402
05/05/2015	1.3947	3.2538	1.542	1.8421	2.5185	2.7998	4.824
06/05/2015	1.5689	3.2627	1.6217	1.8449	2.6003	2.849	0.402
07/05/2015	1.6467	3.2562	1.5003	1.8493	2.6323	2.862	3.618
08/05/2015	1.5763	3.2123	1.2553	1.8396	2.5384	2.807	2.814
09/05/2015	1.3338	3.2274	1.525	1.8284	2.5861	2.8453	5.226
10/05/2015	1.4834	3.2371	1.6021	1.8162	2.5446	2.8157	0
11/05/2015	1.5911	3.2402	1.6271	1.8106	2.5458	2.812	0
12/05/2015	1.6645	3.2437	1.6474	1.8097	2.5839	2.8314	0
13/05/2015	1.6978	3.2485	1.6558	1.8108	2.5633	2.8168	0
14/05/2015	1.7063	3.2467	1.6579	1.8087	2.5613	2.8175	0
15/05/2015	1.7355	3.2608	1.6812	1.8228	2.5963	2.8381	0
16/05/2015	1.7441	3.2617	1.6897	1.8262	2.6283	2.8558	0.201
17/05/2015	1.7457	3.271	1.6999	1.8335	2.5802	2.8248	0
18/05/2015	1.4182	3.2536	1.5553	1.8244	2.4932	2.7759	6.03
19/05/2015	1.4582	3.2513	1.5767	1.8289	2.5491	2.809	3.015
20/05/2015	1.569	3.2573	1.6332	1.8384	2.6214	2.8516	1.206
21/05/2015	1.6451	3.262	1.6646	1.8399	2.6224	2.8519	0
22/05/2015	1.6946	3.2629	1.6722	1.8413	2.6037	2.8391	0
23/05/2015	1.7226	3.2687	1.6825	1.8485	2.5921	2.8302	0
24/05/2015	1.7313	3.2678	1.6829	1.8497	2.5876	2.8287	0.603
25/05/2015	1.7415	3.2725	1.6931	1.8562	2.597	2.8351	0.201

Date	Groundwater Depth (m below ground level)						Rainfall (mm)
	F1	P	N1	AB	AE	AF	
26/05/2015	1.7559	3.2749	1.7033	1.8604	2.6285	2.8551	0
27/05/2015	1.7472	3.2756	1.6963	1.8612	2.5504	2.8041	0
28/05/2015	1.7535	3.2827	1.6987	1.8715	2.5734	2.8187	0
29/05/2015	1.5984	3.2666	1.6426	1.8681	2.5589	2.8027	4.623
30/05/2015	1.6957	3.2797	1.709	1.8803	2.5809	2.8127	0.804
31/05/2015	1.588	3.2696	1.6957	1.8758	2.5754	2.8092	2.01
01/06/2015	1.6355	3.273	1.7153	1.8796	2.5217	2.77	1.206
02/06/2015	1.3924	3.2505	1.5867	1.8706	2.5435	2.8019	6.231
03/06/2015	1.5449	3.2614	1.6651	1.8733	2.6374	2.853	0.603
04/06/2015	1.6228	3.2636	1.6818	1.8671	2.5759	2.8114	0
05/06/2015	1.6637	3.2601	1.6861	1.8664	2.5716	2.8096	0
06/06/2015	1.7181	3.2658	1.7081	1.8715	2.6278	2.8422	0
07/06/2015	1.7464	3.2718	1.7267	1.8775	2.6597	2.8653	0
08/06/2015	1.7523	3.276	1.7352	1.8806	2.643	2.8578	0
09/06/2015	1.7531	3.278	1.7105	1.8839	2.6243	2.8469	0.201
10/06/2015	1.7595	3.2826	1.7214	1.8908	2.5958	2.8281	0
11/06/2015	1.7538	3.2843	1.7227	1.8951	2.5544	2.8045	0
12/06/2015	1.7529	3.2859	1.7247	1.8995	2.5485	2.7978	0
13/06/2015	1.558	3.2673	1.552	1.8972	2.5615	2.8127	8.844
14/06/2015	1.6627	3.2699	1.6494	1.8982	2.5919	2.8273	0.402
15/06/2015	1.7139	3.2792	1.6885	1.9055	2.6178	2.8359	0
16/06/2015	1.7386	3.2842	1.711	1.9117	2.6166	2.8341	0
17/06/2015	1.7456	3.2872	1.7176	1.9144	2.5992	2.8246	0.201
18/06/2015	1.7537	3.2885	1.7254	1.918	2.6147	2.8305	0
19/06/2015	1.7584	3.2918	1.737	1.924	2.6231	2.8374	0
20/06/2015	1.7599	3.2932	1.7347	1.9281	2.6011	2.8278	0.201
21/06/2015	1.7635	3.2962	1.7439	1.9331	2.5943	2.8244	0
22/06/2015	1.733	3.2891	1.7401	1.9348	2.6047	2.8328	1.809
23/06/2015	1.7599	3.2996	1.7576	1.9448	2.6415	2.8572	0
24/06/2015	1.772	3.3031	1.7634	1.9494	2.6466	2.8581	0
25/06/2015	1.7763	3.3079	1.7707	1.9578	2.6421	2.8557	0
26/06/2015	1.7734	3.3062	1.768	1.9592	2.6189	2.8441	0.201
27/06/2015	1.786	3.3132	1.7806	1.9703	2.6597	2.8698	0
28/06/2015	1.7199	3.3089	1.7714	1.9717	2.6492	2.8634	2.613
29/06/2015	1.7642	3.3149	1.7841	1.9792	2.6618	2.8699	0
30/06/2015	1.775	3.319	1.7933	1.987	2.6342	2.8531	0
01/07/2015	1.7709	3.3188	1.7976	1.9893	2.626	2.8486	0
02/07/2015	1.7703	3.3095	1.6104	1.9936	2.6885	2.8833	7.437
03/07/2015	1.738	3.3128	1.7125	2.0033	2.6548	2.8604	1.005
04/07/2015	1.7451	3.3126	1.7322	2.0054	2.6562	2.8635	0.201
05/07/2015	1.7337	3.3066	1.6824	2.006	2.625	2.8417	3.618
06/07/2015	1.7058	3.3046	1.6352	2.0106	2.6123	2.8285	2.211
07/07/2015	1.6772	3.3048	1.6878	2.0136	2.5909	2.8179	0
08/07/2015	1.7163	3.304	1.7113	2.0148	2.6692	2.8683	1.407
09/07/2015	1.7416	3.3125	1.7384	2.0225	2.6859	2.8775	0
10/07/2015	1.7007	3.3119	1.7362	2.0265	2.6243	2.8428	0
11/07/2015	1.7123	3.3186	1.7416	2.0309	2.6572	2.8628	0
12/07/2015	1.7015	3.3186	1.7514	2.0334	2.6359	2.8617	0.402
13/07/2015	1.6668	3.3133	1.7342	2.0348	2.6096	2.8445	2.613
14/07/2015	1.6882	3.3148	1.7408	2.0373	2.6415	2.8601	0.402
15/07/2015	1.6924	3.3232	1.6285	2.0532	2.6871	2.862	0

Date	Groundwater Depth (m below ground level)						Rainfall (mm)
	F1	P	N1	AB	AE	AF	
16/07/2015	1.7044	3.3258	1.6324	2.0557	2.6961	2.8651	0
17/07/2015	1.7027	3.3299	1.6385	2.0641	2.6356	2.8298	0
18/07/2015	1.7144	3.3274	1.642	2.0634	2.6823	2.8574	0
19/07/2015	1.7209	3.3332	1.6541	2.073	2.6715	2.8494	2.211
20/07/2015	1.6889	3.3318	1.6594	2.0736	2.6869	2.8589	1.206
21/07/2015	1.7043	3.3309	1.6614	2.0778	2.6797	2.8561	0
22/07/2015	1.7224	3.3348	1.6717	2.0822	2.7147	2.88	0.804
23/07/2015	1.7248	3.3354	1.6728	2.0855	2.7286	2.8874	0.201
24/07/2015	1.7288	3.3374	1.6427	2.0906	2.7121	2.8774	0.402
25/07/2015	1.7251	3.3336	1.6188	2.0925	2.6903	2.8652	0.603
26/07/2015	1.7349	3.3413	1.6434	2.0999	2.7188	2.8778	2.211
27/07/2015	1.6588	3.3259	1.5925	2.0988	2.6122	2.8118	1.206
28/07/2015	1.6916	3.3315	1.5917	2.1026	2.6784	2.8537	1.407
29/07/2015	1.6783	3.3324	1.5769	2.1066	2.72	2.8784	0.201
30/07/2015	1.7164	3.337	1.613	2.1109	2.7577	2.9035	0
31/07/2015	1.7303	3.3383	1.638	2.1158	2.7606	2.9063	0
01/08/2015	1.7324	3.3415	1.6461	2.1203	2.7197	2.8794	0.402
02/08/2015	1.7348	3.3431	1.6562	2.1234	2.7435	2.893	0.201
03/08/2015	1.734	3.3444	1.6689	2.1291	2.6909	2.8576	0
04/08/2015	1.7396	3.3495	1.6805	2.1346	2.7181	2.8738	0
05/08/2015	1.7454	3.3484	1.6909	2.1379	2.7502	2.8929	0
06/08/2015	1.7283	3.3469	1.6905	2.1397	2.7249	2.8763	2.412
07/08/2015	1.7396	3.3491	1.6967	2.1433	2.7798	2.914	0
08/08/2015	1.7523	3.351	1.7002	2.1481	2.7912	2.9219	0
09/08/2015	1.7498	3.3575	1.7055	2.1549	2.7737	2.9092	0
10/08/2015	1.7543	3.3599	1.7191	2.1606	2.7552	2.897	1.407
11/08/2015	1.7547	3.3557	1.7167	2.1611	2.7733	2.9076	0.201
12/08/2015	1.7657	3.3585	1.7216	2.1616	2.8038	2.9292	0
13/08/2015	1.7592	3.3644	1.7299	2.172	2.7851	2.9186	0
14/08/2015	1.7536	3.365	1.7324	2.1752	2.73	2.8776	14.271
15/08/2015	1.1587	3.3138	1.5123	2.1648	2.6934	2.8681	0
16/08/2015	1.5373	3.3176	1.5646	2.1624	2.7202	2.8754	0
17/08/2015	1.6547	3.3219	1.5821	2.1669	2.7364	2.8842	0
18/08/2015	1.7004	3.3257	1.5937	2.1686	2.7208	2.8704	0
19/08/2015	1.7102	3.3291	1.5995	2.1717	2.7166	2.867	1.005
20/08/2015	1.706	3.3273	1.59	2.1729	2.7321	2.8794	1.608
21/08/2015	1.718	3.332	1.6092	2.1791	2.7366	2.8821	0
22/08/2015	1.7275	3.3351	1.6232	2.1816	2.7388	2.8848	1.005
23/08/2015	1.6816	3.3186	1.3679	2.184	2.6908	2.8514	13.266
24/08/2015	1.4377	3.2921	1.4186	2.1729	2.646	2.8347	2.814
25/08/2015	1.5476	3.2908	1.5127	2.1657	2.6789	2.8532	0.201
26/08/2015	1.6311	3.2993	1.5438	2.1641	2.6729	2.8876	2.814
27/08/2015	1.6779	3.3094	1.6643	2.1541	2.7462	2.8832	0.201
28/08/2015	1.7179	3.3133	1.7109	2.1535	2.7967	2.9157	0
29/08/2015	1.7664	3.3202	1.734	2.1558	2.8308	2.9396	0
30/08/2015	1.7786	3.3228	1.7527	2.1547	2.829	2.9393	0
31/08/2015	1.7834	3.3265	1.7659	2.1567	2.8134	2.9285	2.814
01/09/2015	1.5952	3.3091	1.6246	2.1507	2.8046	2.9248	6.633
02/09/2015	1.3567	3.2917	1.6291	2.1431	2.7705	2.9073	0.804
03/09/2015	1.5029	3.2897	1.6549	2.133	2.7477	2.8882	2.211
04/09/2015	1.5095	3.2829	1.6363	2.1242	2.7498	2.8885	1.005

Date	Groundwater Depth (m below ground level)						Rainfall (mm)
	F1	P	N1	AB	AE	AF	
05/09/2015	1.5887	3.2806	1.6521	2.1153	2.7515	2.8863	0.201
06/09/2015	1.6856	3.2839	1.6756	2.1096	2.7918	2.9137	0
07/09/2015	1.7397	3.292	1.7141	2.1103	2.8038	2.9217	0
08/09/2015	1.765	3.2959	1.7309	2.1094	2.7992	2.9193	0
09/09/2015	1.7689	3.2964	1.7327	2.1064	2.77	2.901	0
10/09/2015	1.7753	3.3028	1.7324	2.1111	2.7732	2.9065	0
11/09/2015	1.7804	3.3085	1.7445	2.1136	2.7645	2.901	0
12/09/2015	1.7776	3.3096	1.7375	2.1178	2.7299	2.8764	5.226
13/09/2015	1.5732	3.2867	1.6205	2.1106	2.7386	2.8853	0
14/09/2015	1.6434	3.295	1.6755	2.1168	2.7028	2.8571	0
15/09/2015	1.6347	3.2714	1.3607	2.1079	2.6782	2.8482	7.437
16/09/2015	1.5379	3.2707	1.5842	2.1045	2.7112	2.8682	0
17/09/2015	1.6196	3.2688	1.6403	2.0952	2.7072	2.8778	0
18/09/2015	1.7175	3.276	1.686	2.0944	2.7873	2.9281	0
19/09/2015	1.7653	3.2851	1.724	2.0956	2.8585	2.9789	0
20/09/2015	1.7758	3.2911	1.6961	2.0973	2.854	2.9783	0
21/09/2015	1.7711	3.2952	1.6592	2.0992	2.7921	2.9351	3.618
22/09/2015	1.6582	3.2698	1.476	2.0914	2.7121	2.8801	5.226
23/09/2015	1.434	3.2527	1.5431	2.0769	2.7474	2.9084	1.407
24/09/2015	1.5861	3.2562	1.6159	2.069	2.734	2.8983	0
25/09/2015	1.69	3.2609	1.6592	2.0631	2.7894	2.9352	0
26/09/2015	1.7456	3.2648	1.6813	2.0586	2.8266	2.9603	0
27/09/2015	1.7628	3.2693	1.6963	2.0546	2.8297	2.9636	0
28/09/2015	1.7754	3.2753	1.7309	2.0555	2.8462	2.9742	0
29/09/2015	1.7818	3.2814	1.7431	2.0601	2.8375	2.9706	0
30/09/2015	1.7859	3.2859	1.7401	2.0625	2.836	2.9702	0
01/10/2015	1.7883	3.2897	1.7554	2.0664	2.8304	2.9692	0
02/10/2015	1.7873	3.2935	1.7614	2.0679	2.8097	2.9527	0
03/10/2015	1.7812	3.2953	1.7567	2.0715	2.7701	2.9231	0
04/10/2015	1.7781	3.2925	1.7442	2.0687	2.7638	2.9193	0
05/10/2015	1.7873	3.3082	1.7632	2.0842	2.7416	2.9079	0
06/10/2015	1.7849	3.3108	1.7384	2.0911	2.7183	2.9027	2.412
07/10/2015	1.7809	3.3031	1.6456	2.0911	2.7528	2.9328	1.206
08/10/2015	1.7746	3.3014	1.6781	2.0948	2.8124	2.9722	0.402
09/10/2015	1.7958	3.3109	1.7338	2.1044	2.813	2.9739	0
10/10/2015	1.8034	3.3154	1.7256	2.1079	2.7872	2.9616	0
11/10/2015	1.8032	3.3209	1.7247	2.1142	2.746	2.9354	0
12/10/2015	1.8	3.3224	1.7568	2.1162	2.7561	2.9393	0
13/10/2015	1.8058	3.3243	1.7617	2.1195	2.7733	2.9482	0
14/10/2015	1.8194	3.3323	1.7478	2.1272	2.7947	2.9599	0
15/10/2015	1.8124	3.3339	1.7424	2.1311	2.7712	2.9428	0
16/10/2015	1.8247	3.3401	1.7521	2.1378	2.7869	2.9531	0
17/10/2015	1.8205	3.3434	1.745	2.1408	2.7879	2.9493	0
18/10/2015	1.8221	3.3462	1.7515	2.144	2.7766	2.9412	0
19/10/2015	1.8276	3.3512	1.7818	2.1489	2.8049	2.9595	0
20/10/2015	1.8361	3.3565	1.7954	2.1549	2.8154	2.9659	0
21/10/2015	1.8311	3.3611	1.7882	2.1573	2.7795	2.9386	2.814
22/10/2015	1.6566	3.337	1.6618	2.1556	2.7336	2.8632	

ABERDEEN

214 Union Street,
Aberdeen AB10 1TL
T: +44 (0)1224 517405

AYLESBURY

7 Wornal Park, Menmarsh Road,
Worminghall, Aylesbury,
Buckinghamshire HP18 9PH
T: +44 (0)1844 337380

BELFAST

Suite 1 Potters Quay, 5 Ravenhill Road,
Belfast BT6 8DN
T: +44 (0)28 9073 2493

BRADFORD-ON-AVON

Treenwood House, Rowden Lane,
Bradford-on-Avon, Wiltshire BA15 2AU
T: +44 (0)1225 309400

BRISTOL

Langford Lodge, 109 Pembroke Road,
Clifton, Bristol BS8 3EU
T: +44 (0)117 9064280

CAMBRIDGE

8 Stow Court, Stow-cum-Quy,
Cambridge CB25 9AS
T: +44 (0)1223 813805

CARDIFF

Fulmar House, Beignon Close, Ocean
Way, Cardiff CF24 5PB
T: +44 (0)29 20491010

CHELMSFORD

Unit 77, Waterhouse Business Centre,
2 Cromar Way, Chelmsford, Essex
CM1 2QE
T: +44 (0)1245 392170

DUBLIN

7 Dundrum Business Park, Windy
Arbour, Dundrum, Dublin 14 Ireland
T: +353 (0)1 2964667

EDINBURGH

No. 4 The Roundal, Roddinglaw
Business Park, Gogar, Edinburgh
EH12 9DB
T: +44 (0)131 3356830

EXETER

69 Polsloe Road, Exeter EX1 2NF
T: +44 (0)1392 490152

GLASGOW

4 Woodside Place, Charing Cross,
Glasgow G3 7QF
T: +44 (0)141 3535037

GUILDFORD

65 Woodbridge Road, Guildford
Surrey GU1 4RD
T: +44 (0)1483 889 800

LEEDS

Suite 1, Jason House, Kerry Hill,
Horsforth, Leeds LS18 4JR
T: +44 (0)113 2580650

LONDON

83 Victoria Street,
London, SW1H 0HW
T: +44 (0)203 691 5810

MAIDSTONE

19 Hollingworth Court, Turkey Mill,
Maidstone, Kent ME14 5PP
T: +44 (0)1622 609242

MANCHESTER

Digital World Centre, 1 Lowry Plaza,
The Quays, Salford, Manchester
M50 3UB
T: +44 (0)161 216 4064

NEWCASTLE UPON TYNE

Sailors Bethel, Horatio Street,
Newcastle-upon-Tyne NE1 2PE
T: +44 (0)191 2611966

NOTTINGHAM

Aspect House, Aspect Business Park,
Bennerley Road, Nottingham NG6 8WR
T: +44 (0)115 9647280

SHEFFIELD

Unit 2 Newton Business Centre,
Thorncliffe Park Estate, Newton
Chambers Road, Chapeltown,
Sheffield S35 2PW
T: +44 (0)114 2455153

SHREWSBURY

2nd Floor, Hermes House, Oxon
Business Park, Shrewsbury SY3 5HJ
T: +44 (0)1743 239250

STAFFORD

8 Parker Court, Staffordshire Technology
Park, Beaconside, Stafford ST18 0WP
T: +44 (0)1785 241755

STIRLING

No. 68 Stirling Business Centre,
Wellgreen, Stirling FK8 2DZ
T: +44 (0)1786 239900

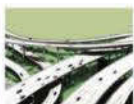
WORCESTER

Suite 5, Brindley Court, Gresley Road,
Shire Business Park, Worcester WR4
9FD
T: +44 (0)1905 751310

www.slrconsulting.com



Industry



Infrastructure



Mining & Minerals



Oil & Gas



Planning & Development



Renewable & Low Carbon



Waste Management