

1 Monitoring Data

1.1 Monitoring Equipment

Noise	Two noise monitoring locations are currently being used – AN2 and NSR1. The sound meter records in the 1/3 octave band.
Weather Station	The data used for this reporting period was taken from the Aughoose Site meteorological station.
TSS	There are TSS meters on the each of discharges on the Siltbuster.
Sondes	The results are displayed graphically.
Discharge pipe flow	The results are displayed graphically.

1.2 Rainfall Data

Date	Rainfall mm
17/11/2011	12.2
18/11/2011	8.4
19/11/2011	2.2
20/11/2011	4.6
21/11/2011	0.8
22/11/2011	0.4
23/11/2011	19.8
Total	48.3

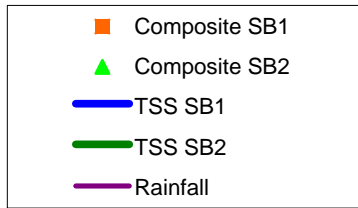
1.3 Summary

Environment	Comments
Weather	There was a total of 48.3mm of rainfall during the reporting period, with a temperature range of 2.0°C to 13.8°C.
Noise	There were no noise level exceedences during the reporting period, however there were technical issues and power issues with the noise meters at AN2 and NSR1 resulting in loss of data. Issues are currently being worked on.
Surface Water	There were no identified surface water exceedences during the reporting period from the siltbuster.

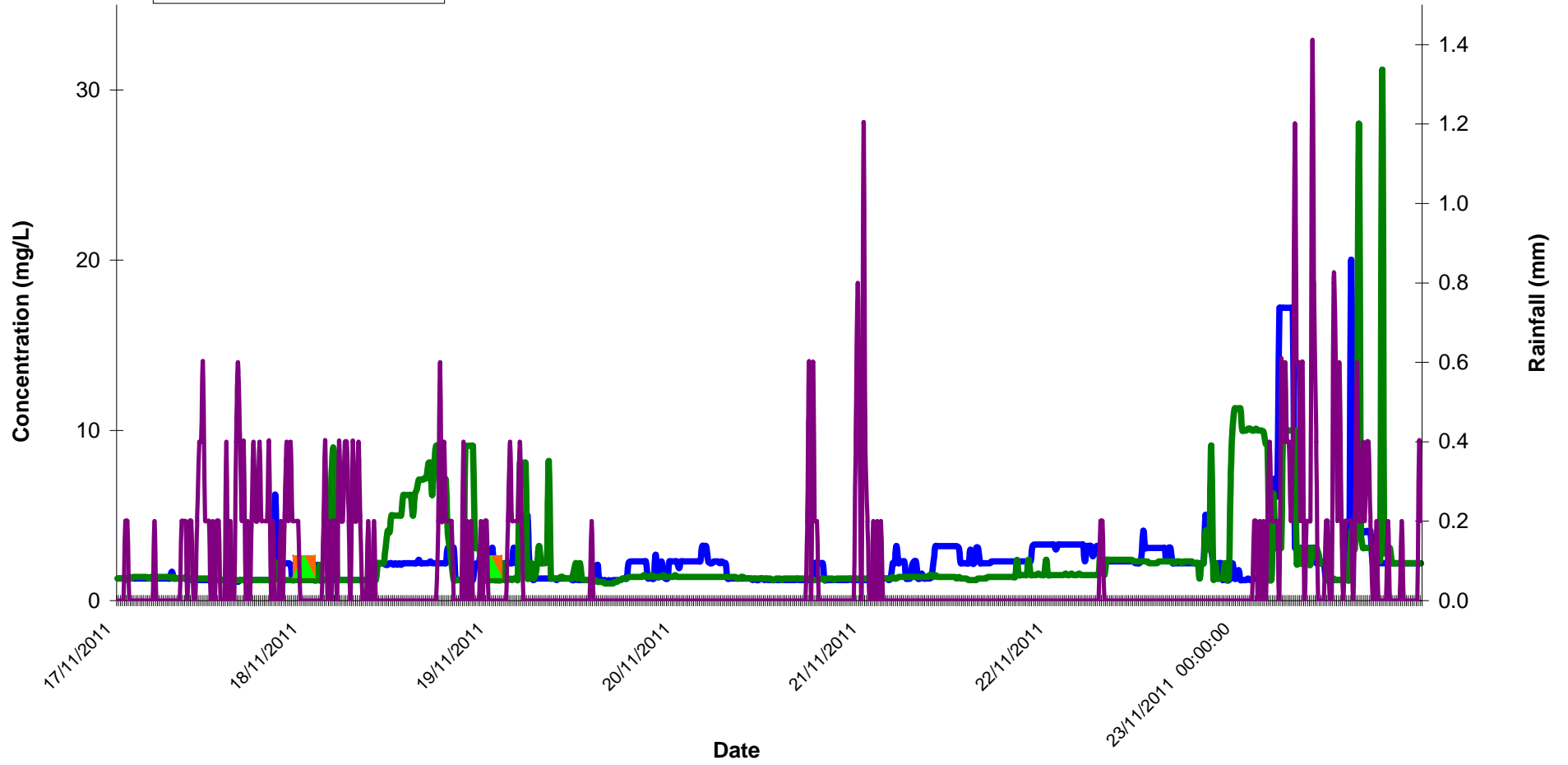
2 Environmental Exceedances / Incidents /

There were no environmental exceedences identified during the reporting period.

Day Time Noise Monitoring / Max Hourly L_{Aeq} Record Sheet										
Determinant Results										
Location	Air Temp. (Min)	Air Temp. (Max)	Start Date and Time	Duration	Wind		Results dB			*Comments
					Speed (m/s)*	Direction (Degrees)	L_{Aeq}	L_{Amax}	L_{Amin}	
Action Limit							60.0			
Target Limit							65.0			
AN2			17/11/2011							Loss of data due to power failure
NSR1	6.8	13.2	17/11/2011		3.9	159.2				Loss of data due to technical error with meter
AN2			18/11/2011							Loss of data due to power failure
NSR1	11.2	13.4	18/11/2011		2.4	158.4				Loss of data due to technical error with meter
AN2			21/11/2011 15:00:00	01:00			53.8	72.0	44.8	
NSR1	2.0	10.6	21/11/2011		1.3	165.6				Loss of data due to technical error with meter
AN2			22/11/2011							Loss of data due to relocating meter to NSR1
NSR1	2.1	12.6	22/11/2011 12:00:00	01:00	4.3	236.8	52.1	69.6	36.4	
AN2			23/11/2011							Loss of data due to relocating meter to NSR1
NSR1	8.2	12.6	23/11/2011		5.3	182.9				Loss of data due to power failure
* Wind speeds in excess of 5 m/s negatively impact noise readings (as per EPA Guidance Note on Noise Measurement).										
** Allowance of +/- 1.5dB accuracy of sound level meter (ref: IEC 61672 (2002-2005))										
The results show the maximum $L_{Aeq}(1hr)$ for each day of monitoring										

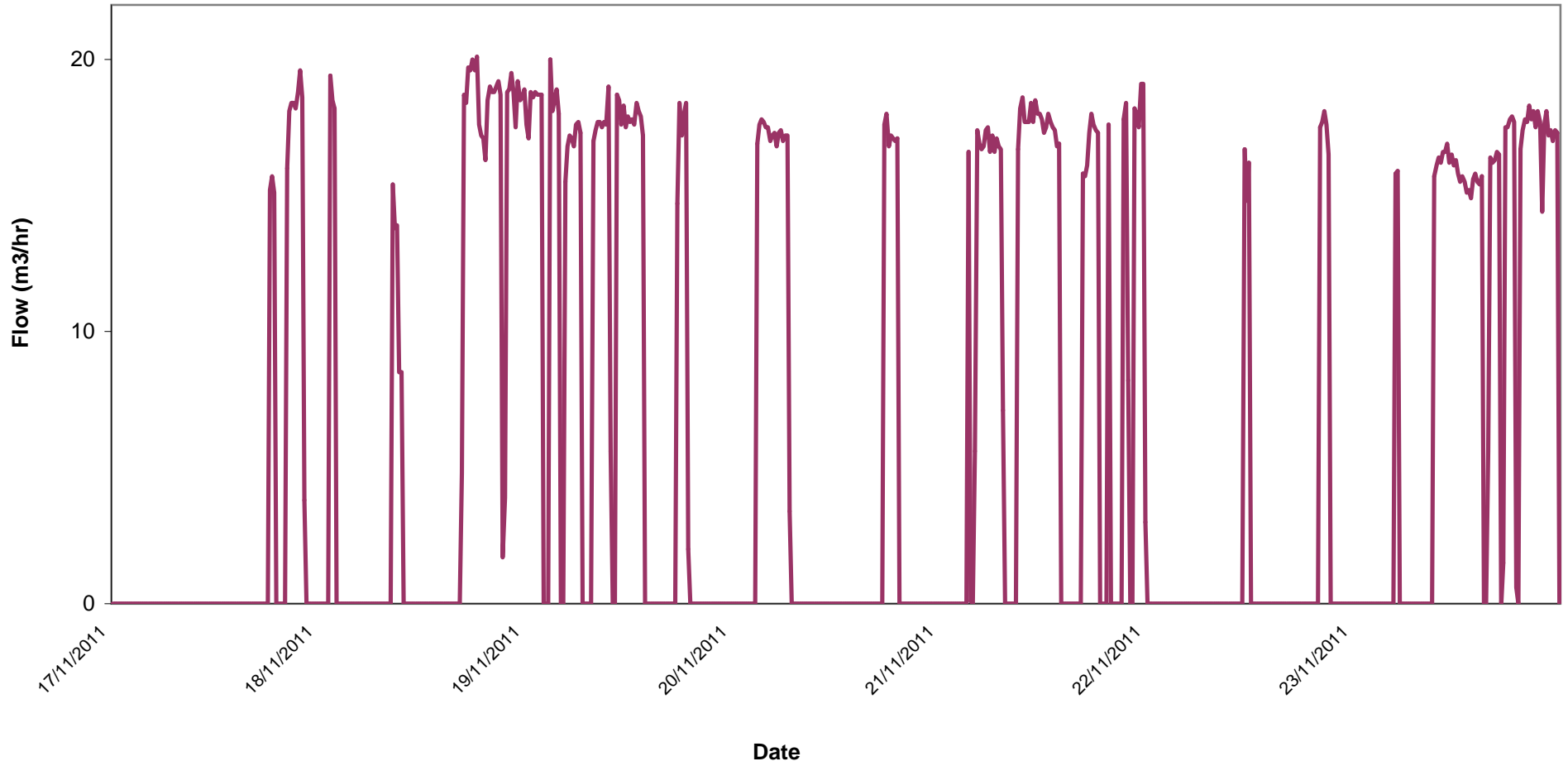


Total Suspended Solids - Surface Waters Discharge Week Ending 23/11/2011

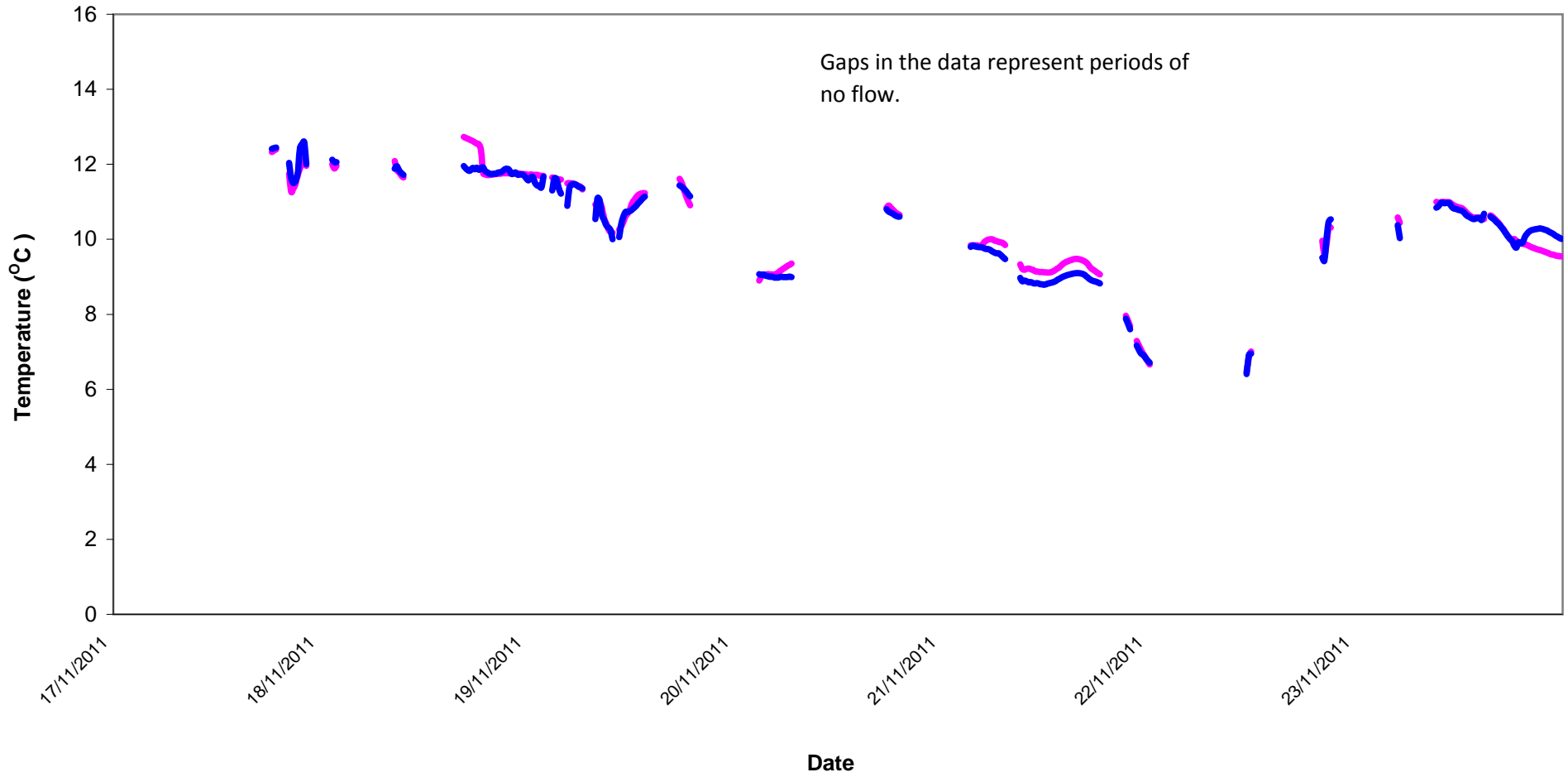


**Flow - Surface Waters Discharge
Week ending 23/11/2011**

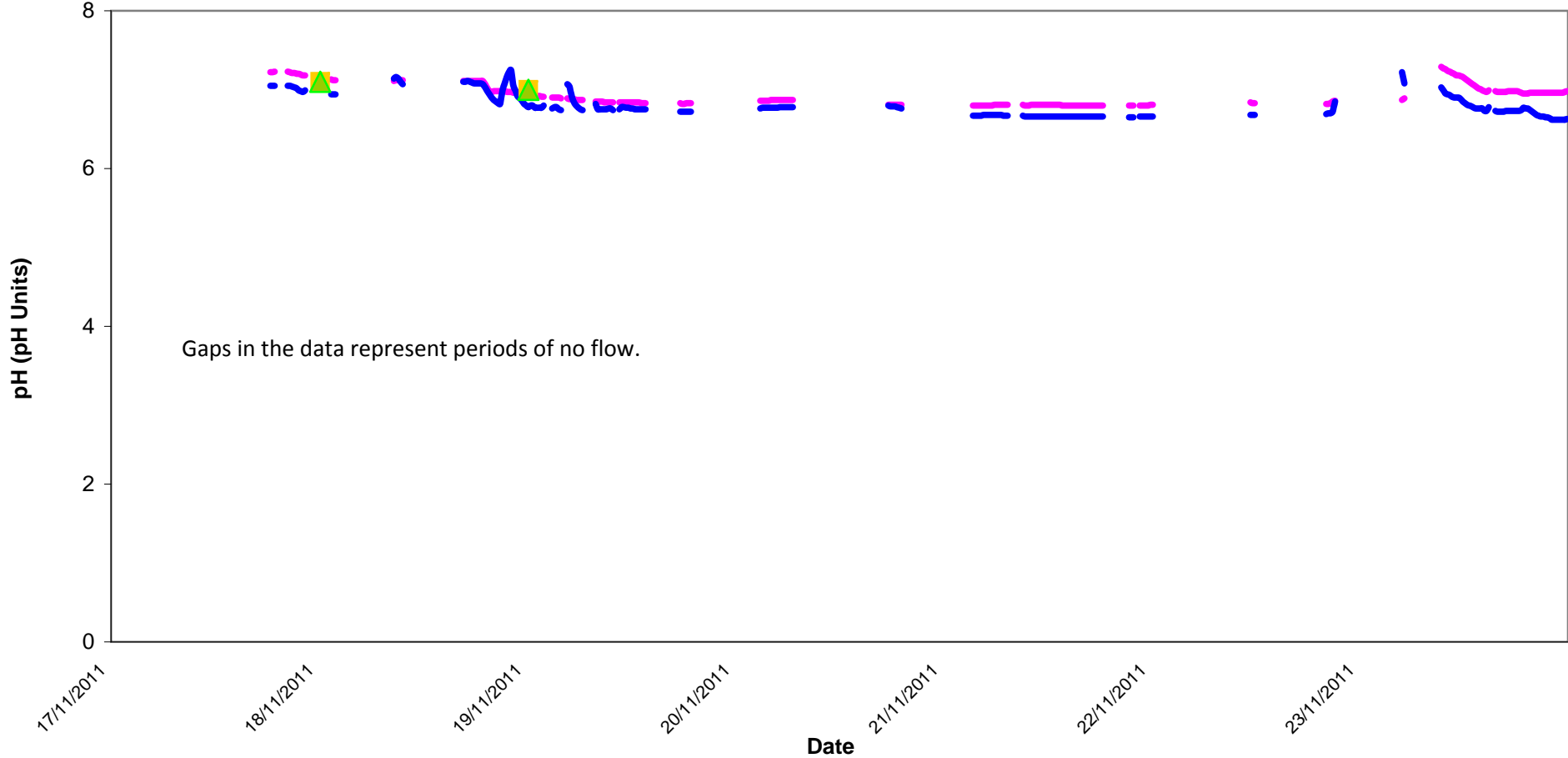
Flow



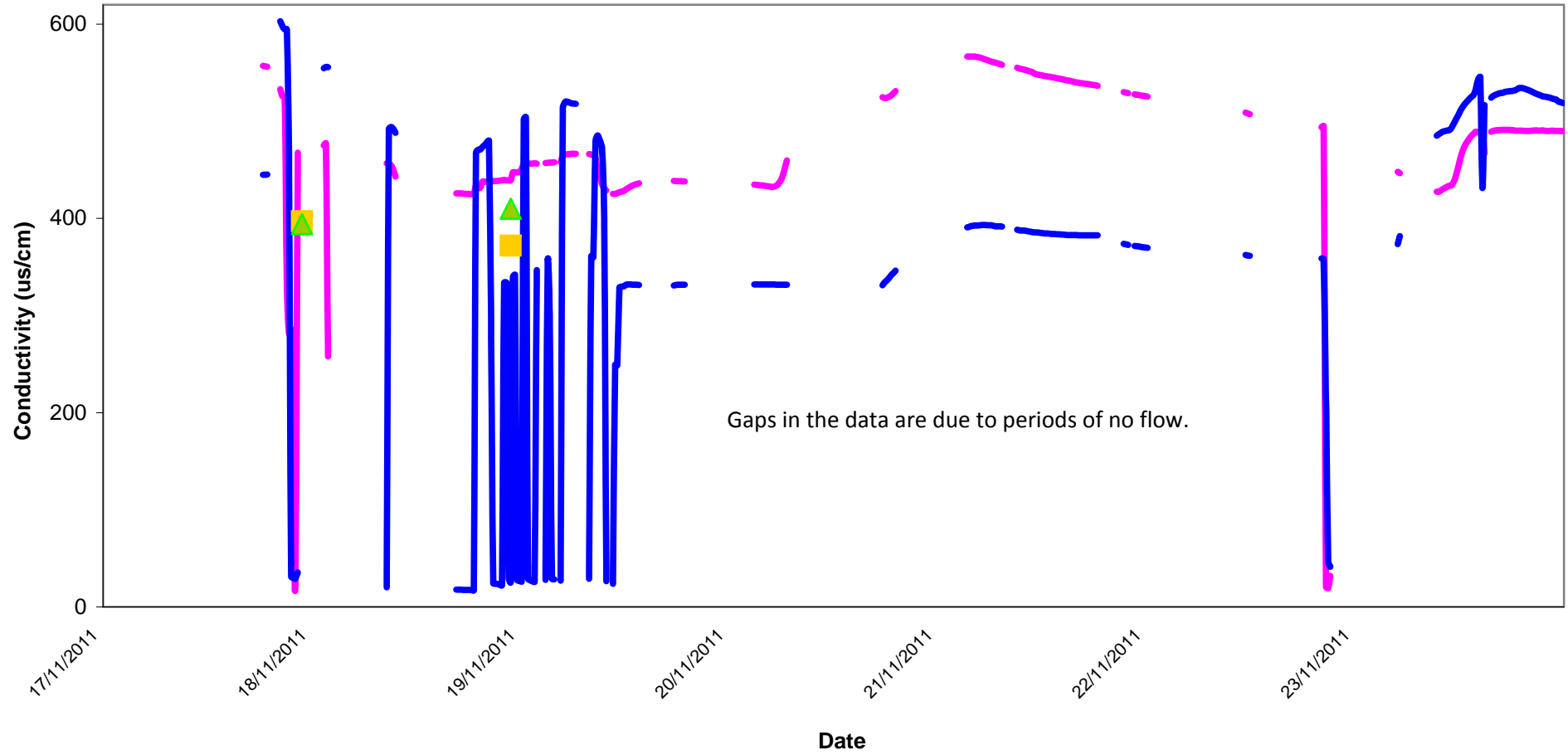
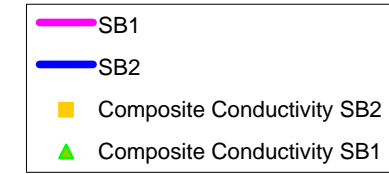
Temperature - Surface Waters Discharge Week ending 23/11/2011



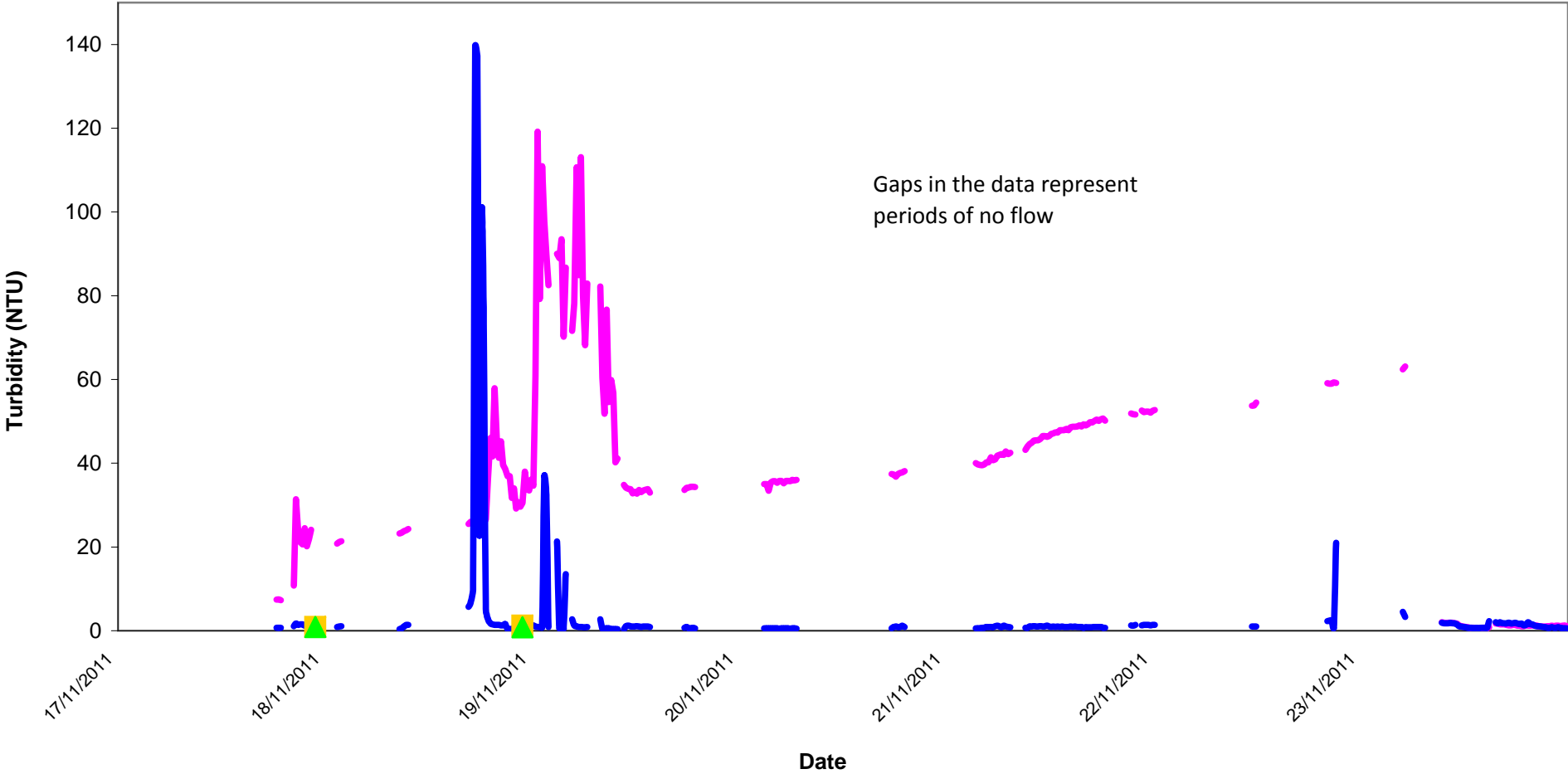
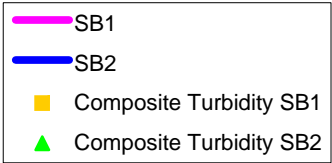
pH - Surface Waters Discharge Week Ending 23/11/2011



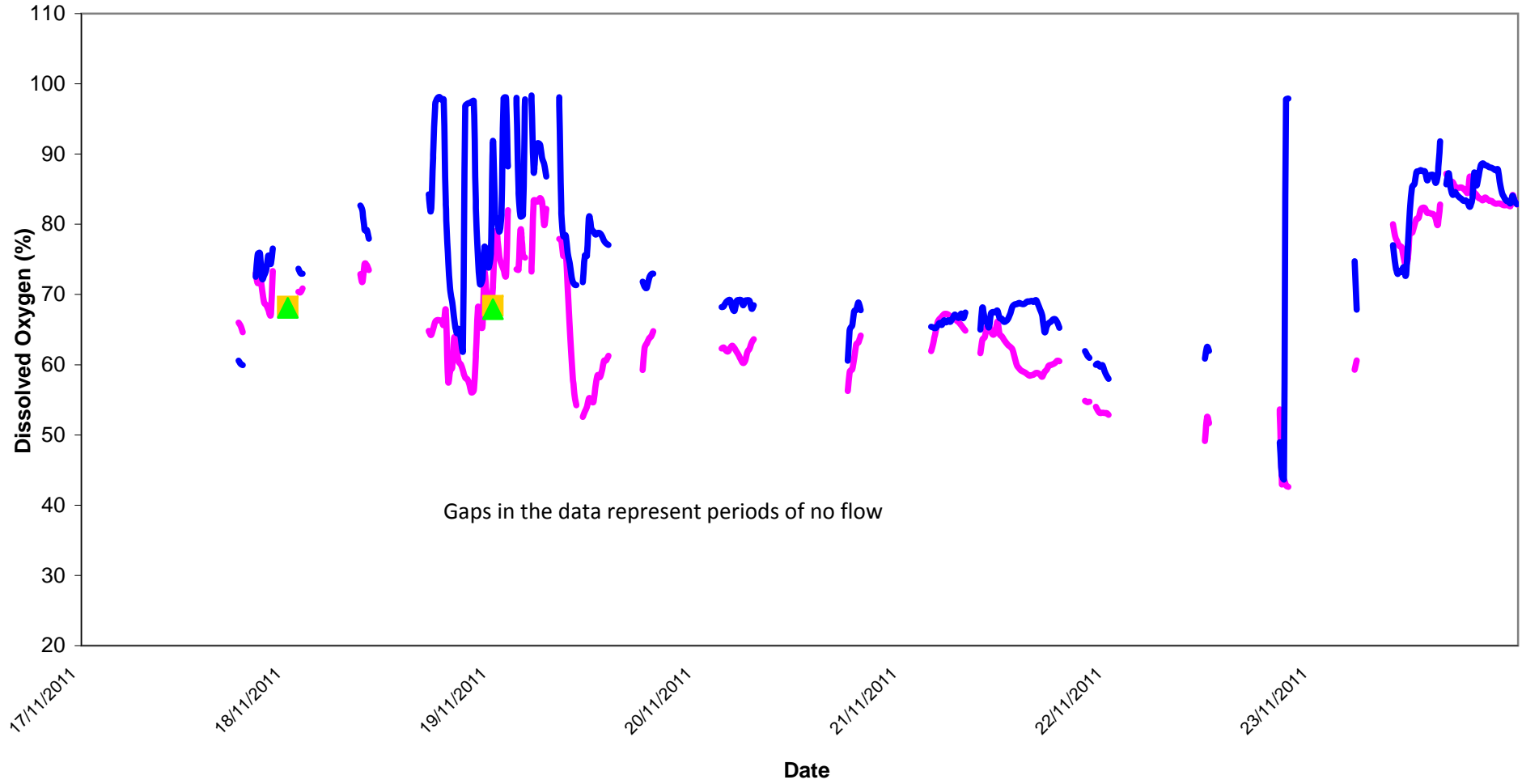
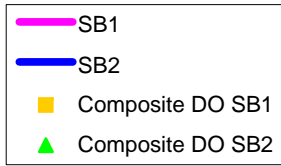
Conductivity - Surface Waters Discharge Week ending 23/11/2011



Turbidity - Surface Waters Discharge Week Ending 23/11/2011



Dissolved Oxygen - Surface Waters Discharge Week Ending 23/11/2011



Appendix 1

Appendix 1: Surface Water Monitoring Record Sheet- Onsite Monitoring							
Location	Date	Temp	DO	Cond.	Turbidity	pH	TDS
		C	% Sat	µS/cm	NTU	pH Units	ppm
DL2	17/11/2011	10.6	22.4	286	19.6	6.2	193
DL2	18/11/2011	11.9	65.3	170	19.4	6.3	99
DL2	21/11/2011	11.1	80.8	394	4.4	6.2	261
DL2	22/11/2011	9.2	67.9	130	56.0	6.4	77
DL2	23/11/2011	11.9	80.8	404	7.3	6.2	244
	Grey shaded areas denote parameters that cannot or were not analysed on-site (results given are from CLS Labs).						
	= Indicative Only						
< LOD	= Below Limit of Detection		> LOD	= Above Limit of Detection			