

1 Monitoring Data

1.1 Monitoring Equipment

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

1.2 Rainfall Data

Date	Rainfall mm
8/09/2011	4.0
9/09/2011	3.6
10/09/2011	17.6
11/09/2011	22.0
12/09/2011	7.6
13/09/2011	2.8
14/09/2011	2.0
Total	59.6

1.3 Summary

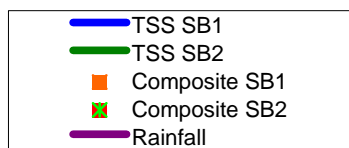
Environment	Comments
Weather	There was a total of 59.6mm of rainfall during the reporting period, with a temperature range of 9.6°C to 19.5°C.
Noise	Noise levels exceeded the permitted noise limit of 65dBLAeq for construction works on 13 th September due to high winds and on 14 th September due to the completion of erection of Eastern Perimeter fence in close proximity to the noise meter at noise sensitive dwelling AN2. The monitoring station is not a dwelling, and although it is being used for noise limit compliance monitoring, it does not represent a noise sensitive receptor. In order to demonstrate compliance with the Board's condition, noise modelling is now being carried out in respect of the nearest dwelling(s) for these events, and results are due in the near future.
Surface Water	Where there are gaps in the data on the surface water graphs, this is due to there being no discharge from the water treatment unit during that time. The surface water discharge from the siltbuster had elevated pH values during the reporting period. This elevation in the silt buster set point value being too high.

2 Environmental Exceedances / Incidents /

There was one surface water exceedance during the reporting period.

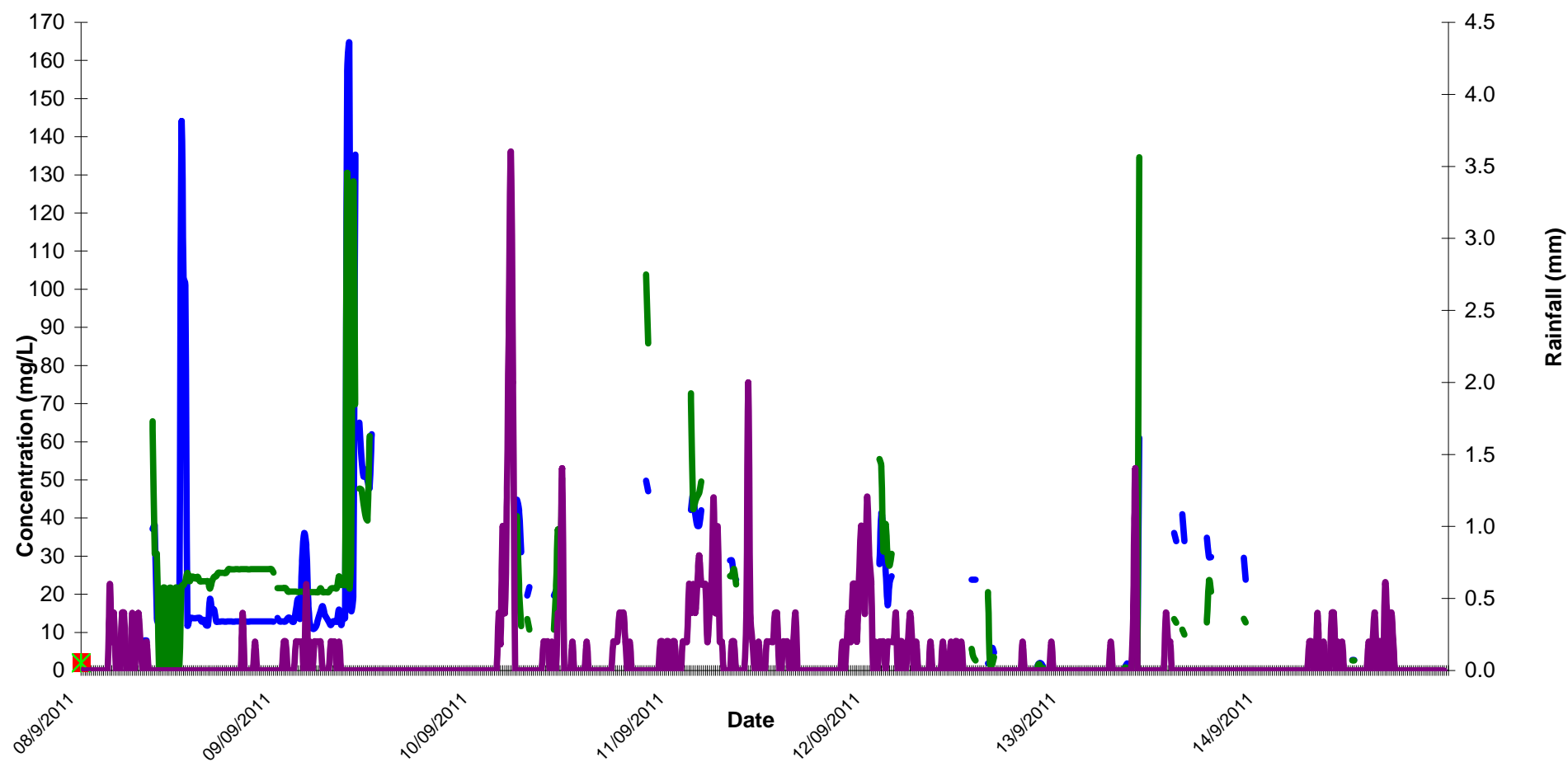
Date and Time	9 th September 2011
Location	Silt Buster Discharge
Nature of Incident	The pH of the surface water elevated over the target limits. The cause of the exceedance was due to the dosing concentration being set too low. The automatic dosing system was adjusted to a 1/0.5 of a pH unit.
Actions Taken	<ul style="list-style-type: none">• Adjust the automatic dosing system down 1/0.5 of a pH unit• Continue to monitor pH of the surface water from the plant.
Category	Environmental Exceedance
Status	Open

Day Time Noise Monitoring 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	10.4	13.9	08/09/2011	09:00	2.0	235.9	65.9	89.4	33.4	
AN2	10.9	19.5	09/09/2011	12:00	5.2	185.0	58.8	88.1	30.6	
AN2	12.1	17.7	10/09/2011	07:00	7.4	173.3	57.1	82.2	32.2	
AN2	11.8	15.0	12/09/2011		9.5	237.4				No construction works due to high winds
AN2	9.6	13.9	13/09/2011	08:00	6.9	274.2	73.7	94.7	39.5	Elevated readings due to high winds
AN2	10.6	12.7	14/09/2011	12:00	1.9	253.4	70.5	91.0	32.9	Eastern perimeter fence erection, in close proximity to noise meter
* Wind speeds in excess of 5 m/s negatively impact noise readings (as per EPA Guidance Note on No										
**Allowance of +/- 1.5dB accuracy of sound level meter (ref: IEC 61672 (2002-2005										



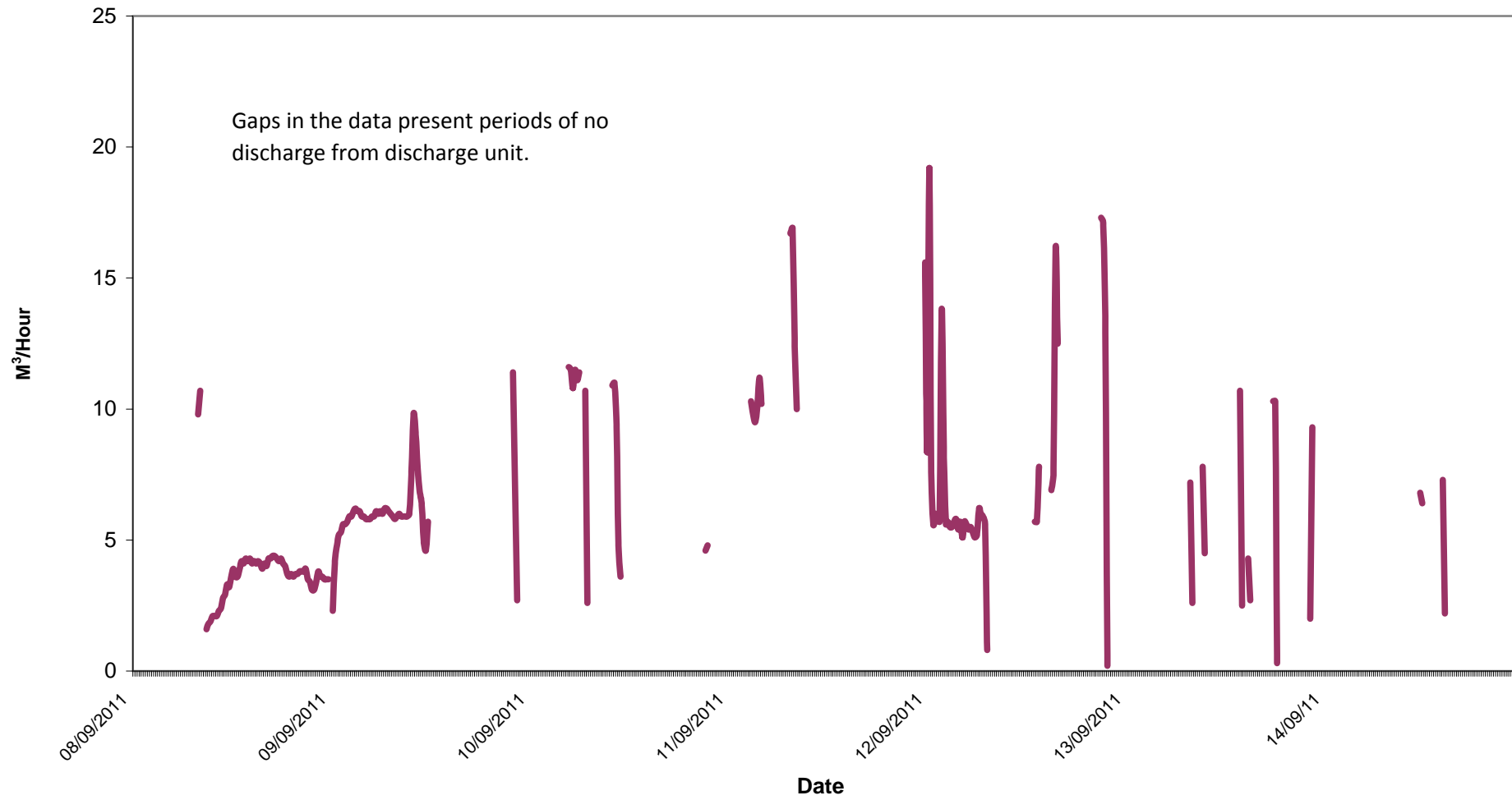
Total Suspended Solids Week Ending 14/09/2011

Gaps in the data present periods of no discharge from discharge unit.

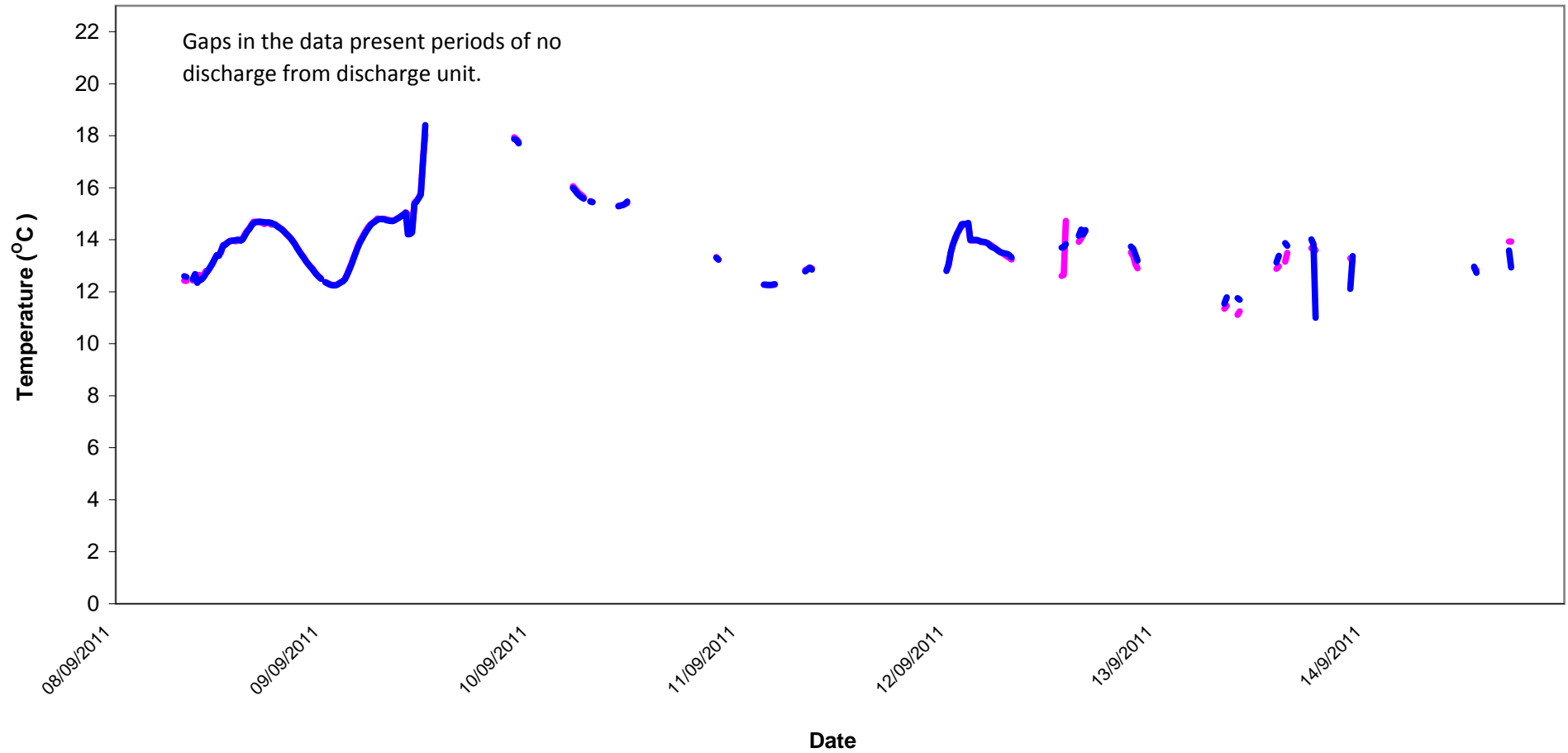


Surface Water Discharge Weir Flow for Week Ending 14/09/2011

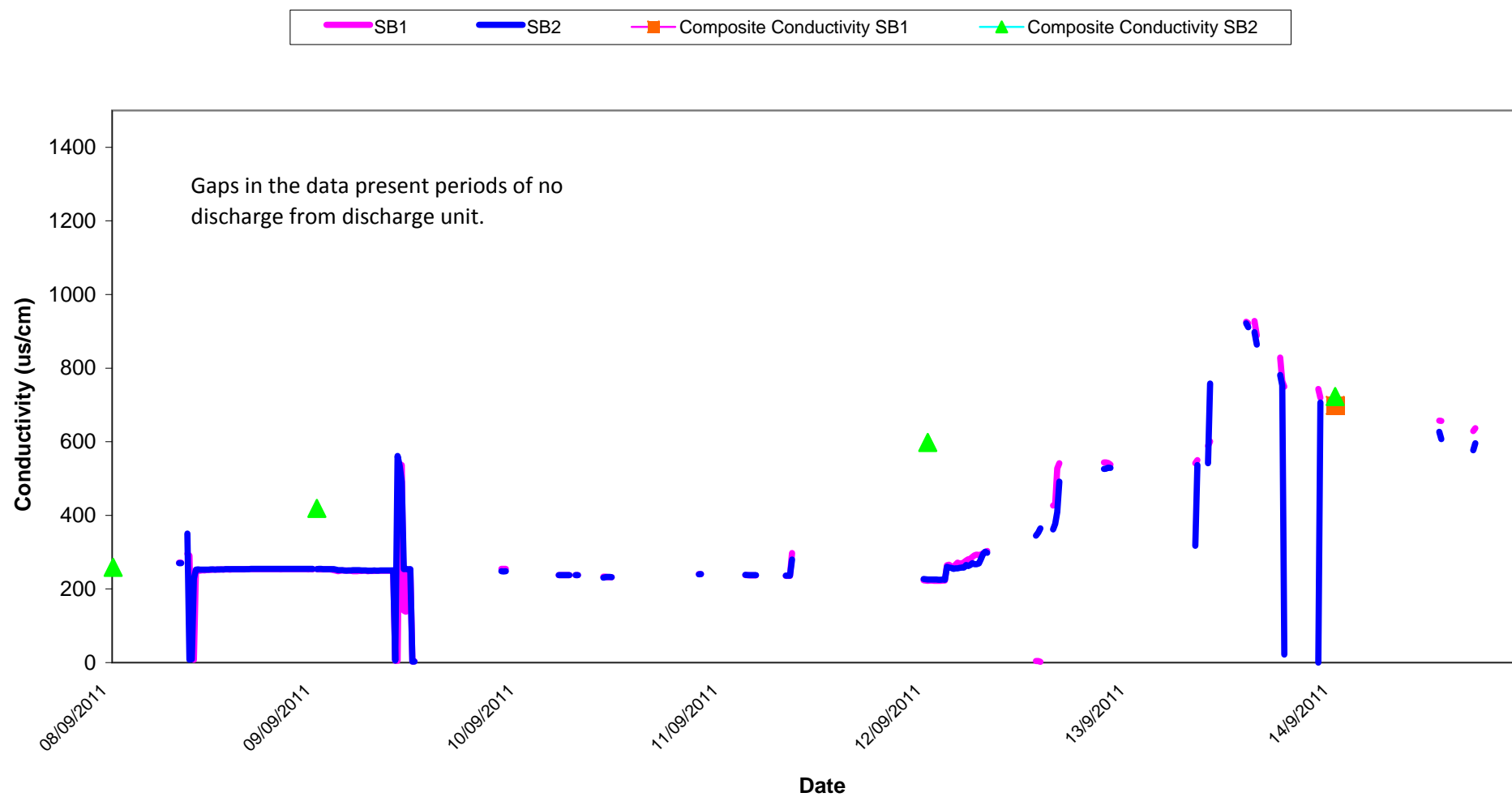
Water Discharge



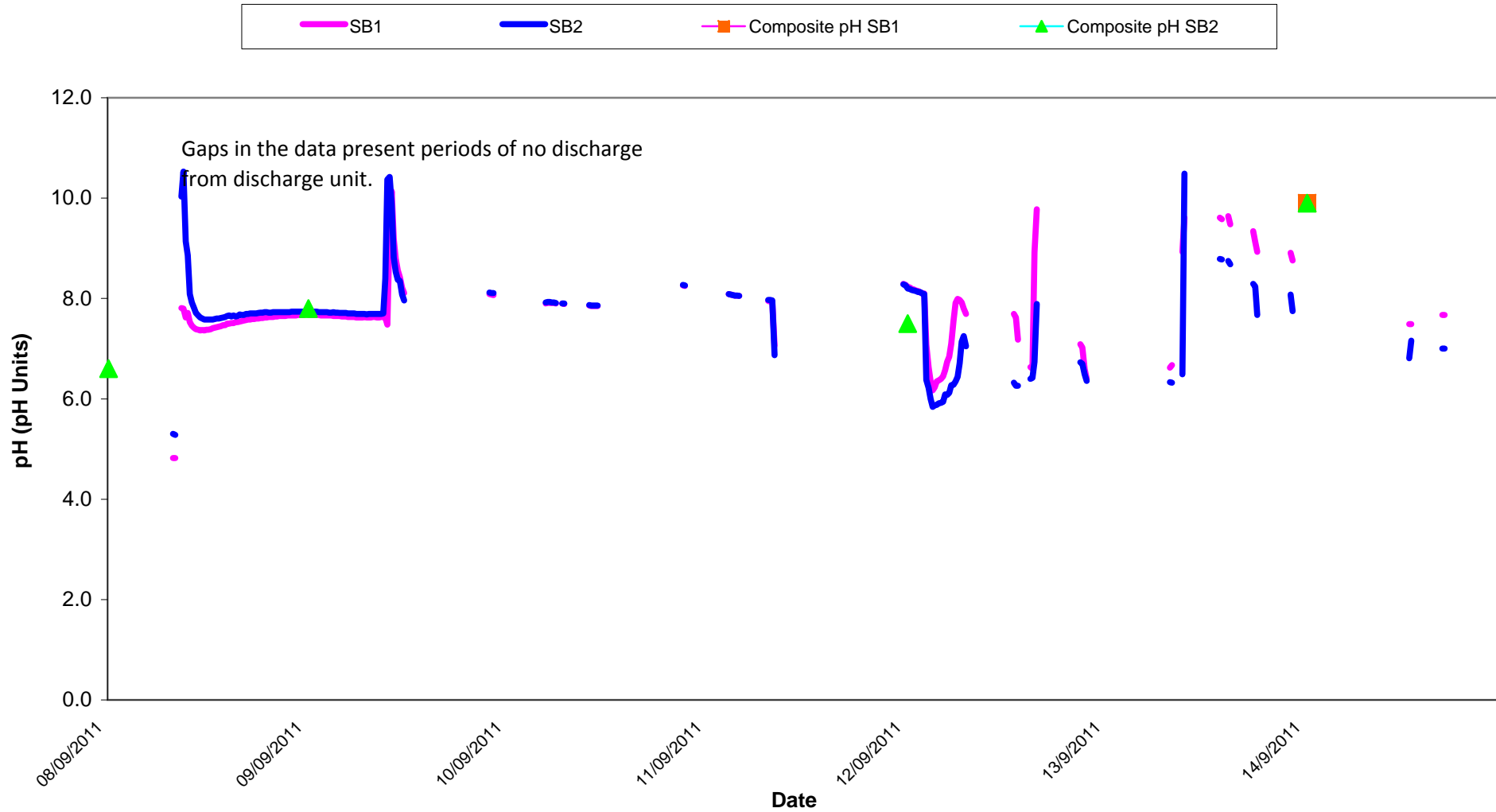
Temperature - Surface Waters Discharge Week ending 14/09/2011



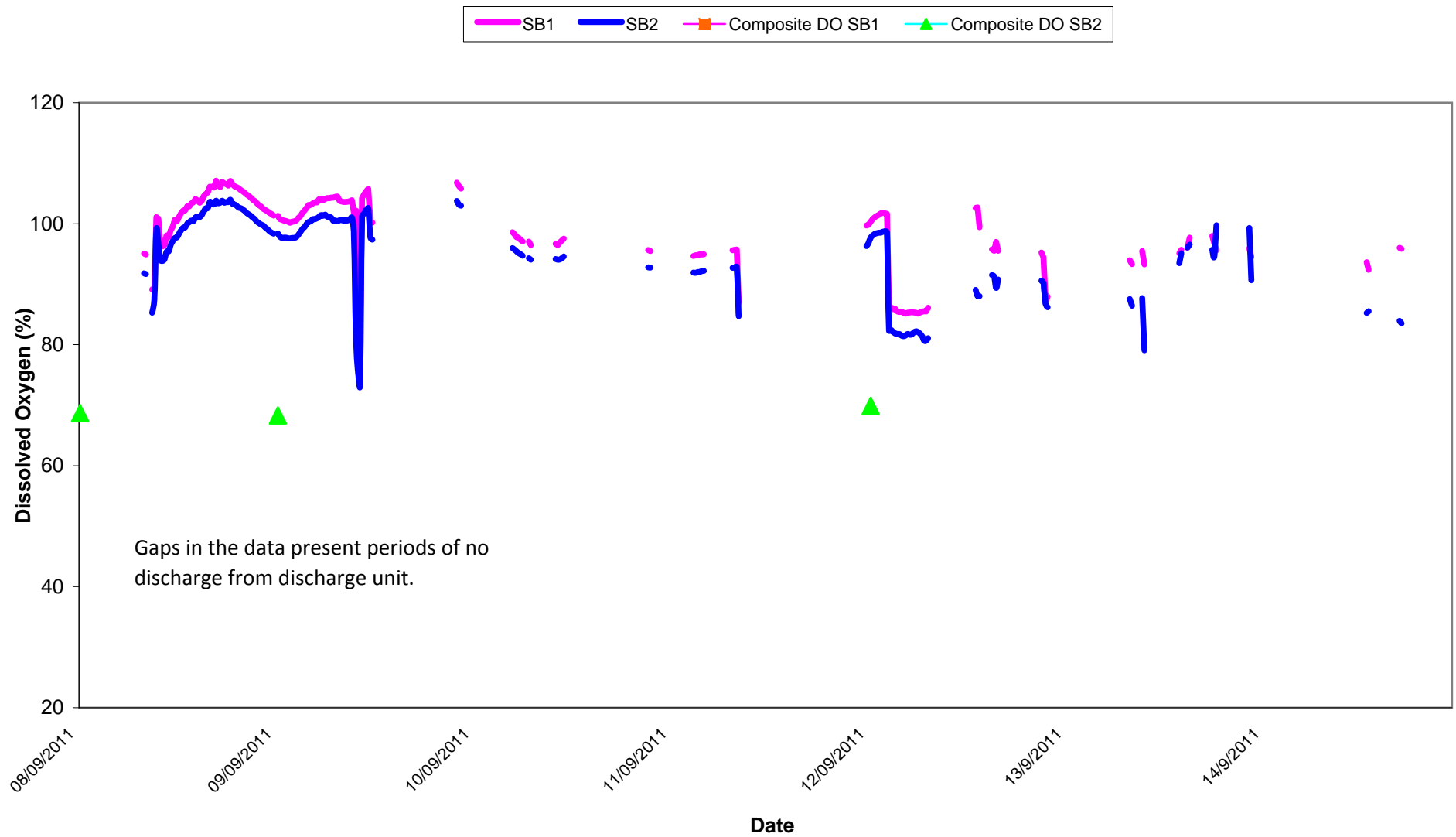
Conductivity - Surface Waters Discharge Week ending 14/09/2011



pH - Surface Waters Discharge Week Ending 14/09/2011



Dissolved Oxygen - Surface Waters Discharge Week Ending 14/09/2011



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	08/9/2011	8.7	67.0	120.4	23.7	6.8	70.3
DL2	09/9/2011	13.4	74.1	128.3	27.0	5.2	75.2
DL2	12/9/2011	14.2	81.9	115.9	9.5	5.4	68.4
DL2	13/9/2011	13.1	74.7	188.1	84.5	6.6	107.0
DL2	14/9/2011	14.1	94.6	199.9	4.9	6.3	122.0
	Grey shaded areas denote parameters that cannot or were not analysed on-site.						
	= Indicative Only						
< LOD	= Below Limit of Detection			> LOD	= Above Limit of Detection		

Turbidity - Surface Water Discharge Week ending 14/09/2011

