

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 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
1/09/2011	2.6
2/09/2011	9.6
3/09/2011	6.4
4/09/2011	15.4
5/09/2011	20.8
6/09/2011	8.6
7/09/2011	9.2
Total	72.6

1.3 Summary

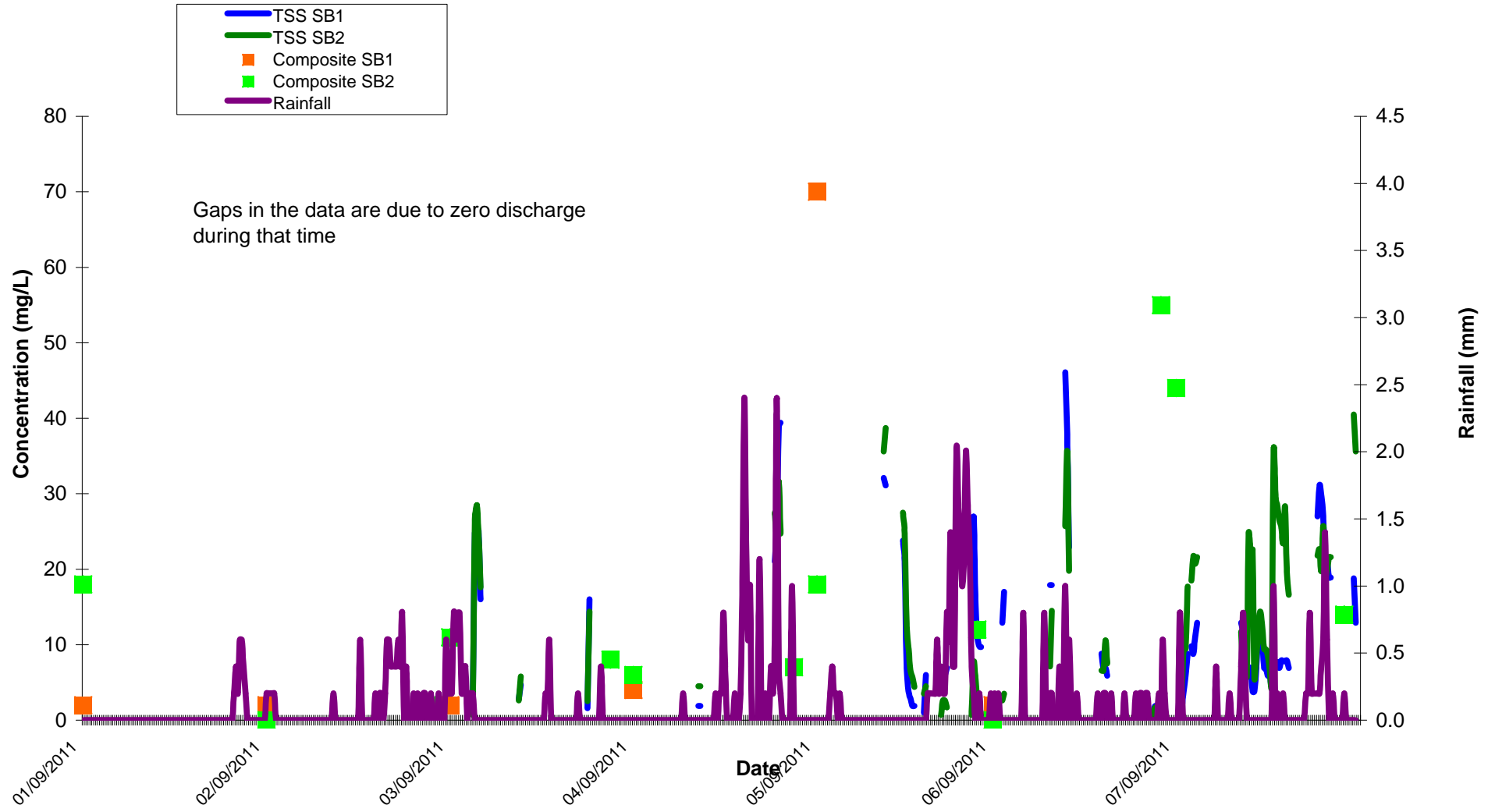
Environment	Comments
Weather	There was a total of 72.6mm of rainfall during the reporting period, with a temperature range of 6.1°C to 17.0°C.
Noise	Noise levels exceeded the permitted noise limit of 65dB LAeq for construction works on 2 occasions (2 nd and 5 th Sept) for this recording period. This is due to Eastern Perimeter fence erection in close proximity to the noise meter and a high level of personnel activity at noise monitoring point 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. On 03/09/11, noise monitoring data was lost due to a malfunction of the noise meter. Technical support was sought in order to rectify the problem.
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.

2 Environmental Exceedances / Incidents

No exceedance during the reporting period.

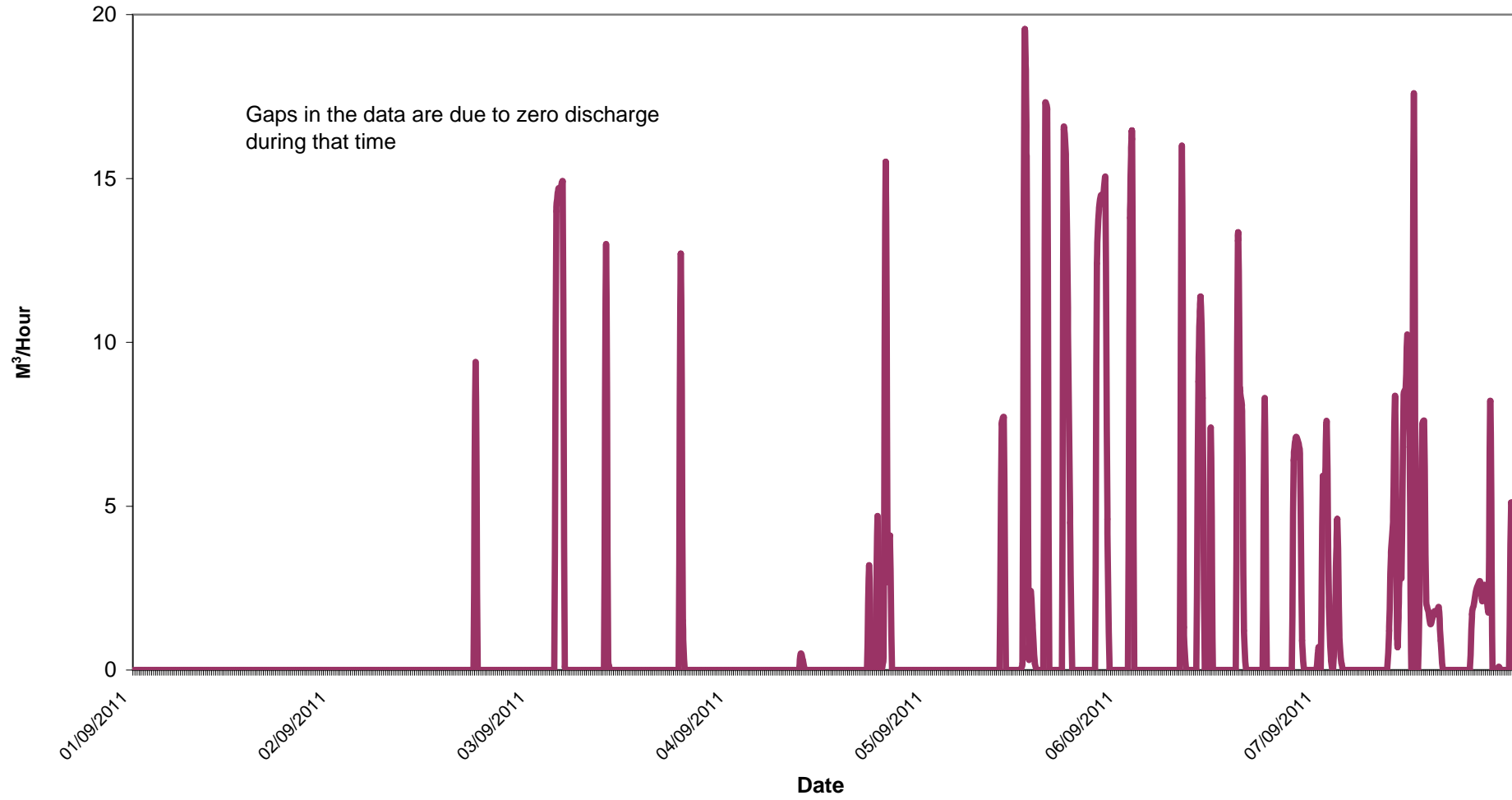
Day Time Noise Monitoring Record Sheet											
Determinant Results											
Location	Air Temp. (Min)	Air Temp. (Max)	Start Date and Time	Duration	Wind		Results dB			*Comments	
					Speed (m/s)*	Direction (Degrees)	L _{Aeq}	L _{Amax}	L _{Amin}		
Action Limit							60.0				
Target Limit							65.0				
AN2	11.2	17.0	01/09/2011 15:00	04:00	2.7	168.6	64.9	94.6	30.3		
AN2	11.3	14.5	02/09/2011 07:00	07:00	3.7	206.6	66.6	92.4	33.2	Fence erection in close proximity to noise meter and high level of personnel activity at SEPIL house	
AN2	5.3	19.5	03/09/2011							Loss of data due to fault with noise meter	
AN2	6.1	14.8	05/09/2011 12:00	07:00	4.2	251.6	74.9	106.0	34.8	Fence erection in close proximity to noise meter and high level	
AN2	10.7	14.1	02/09/2011 07:00	12:00	6.7	268.8	65.2	85.6	40.5		
AN2	9.8	13.1	02/09/2011 07:00	12:00	4.6	271.8	61.7	84.2	35.4		
* 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)											

Total Suspended Solids Week Ending 07/09/2011

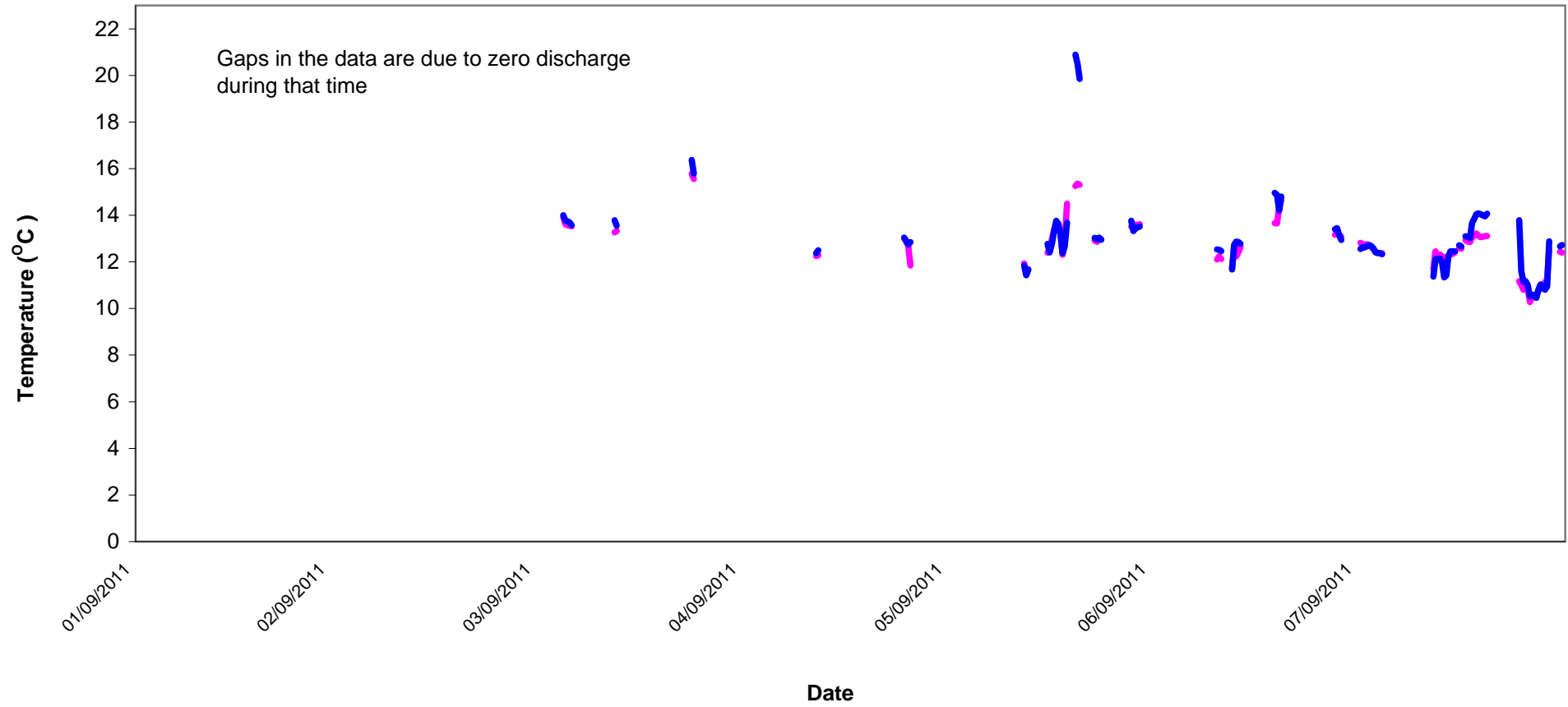


Surface Water Discharge Weir Flow for Week Ending 07/09/2011

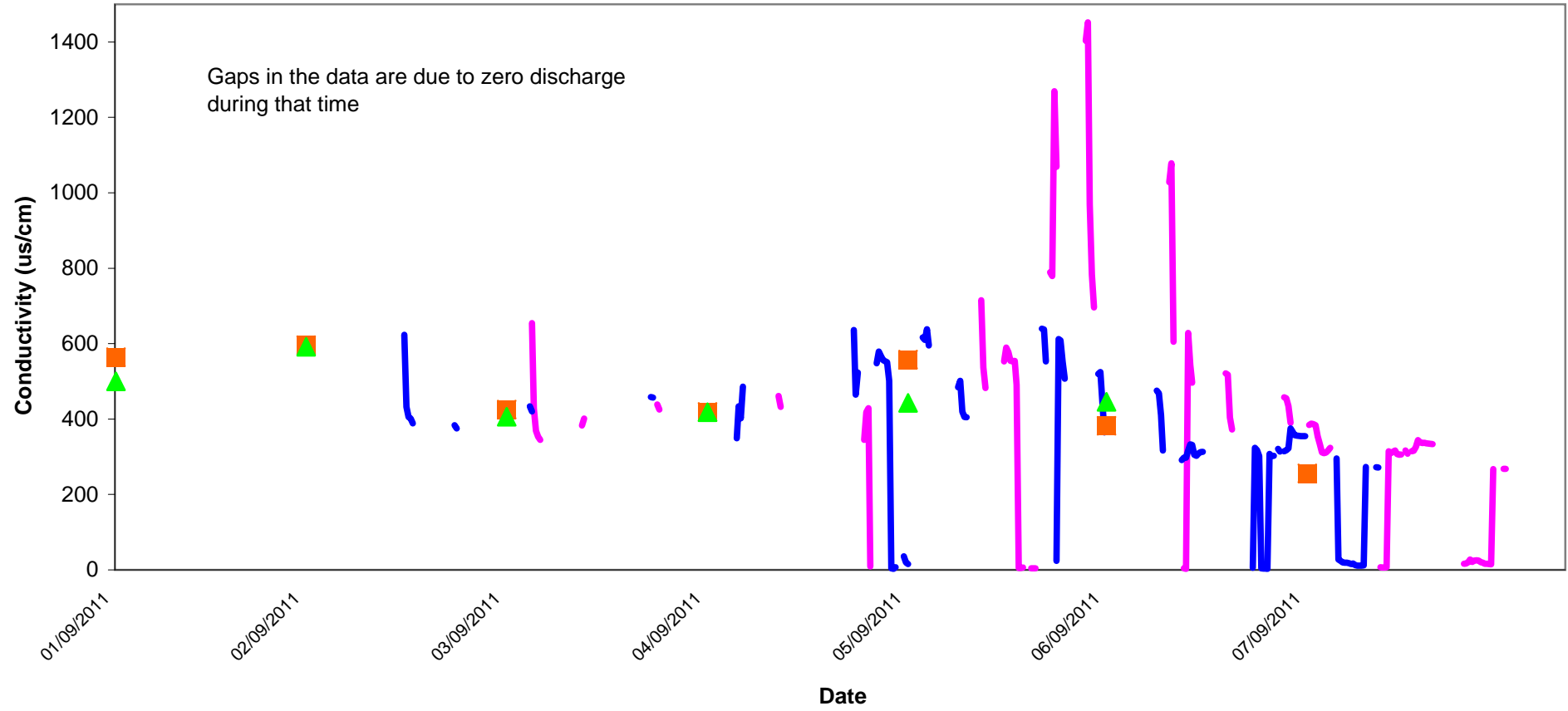
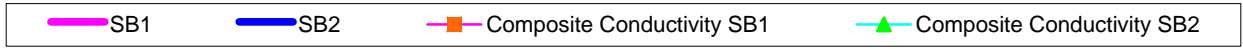
Water Discharge



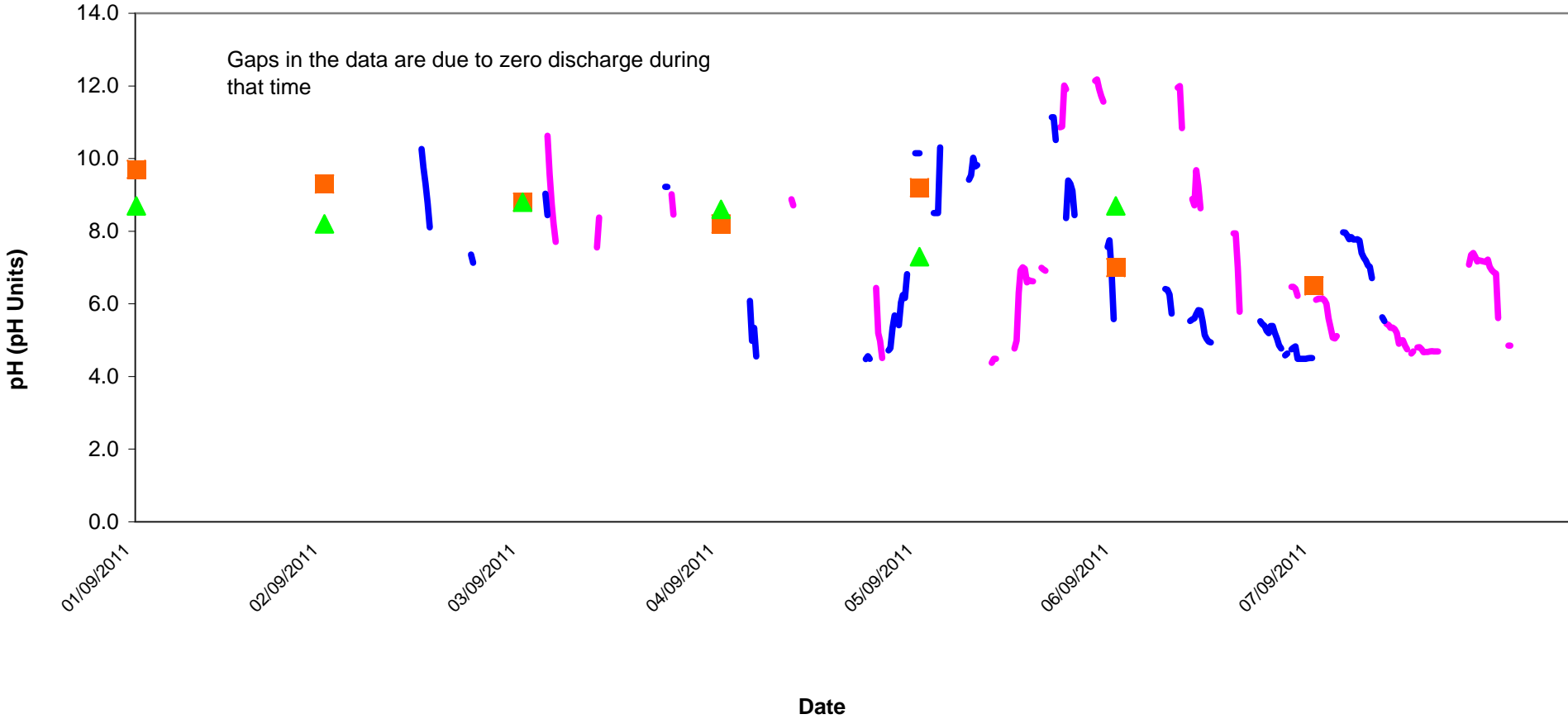
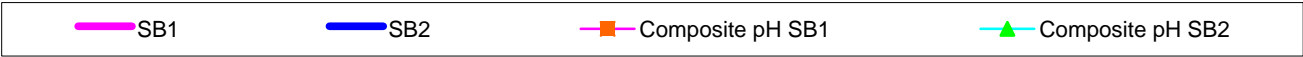
Temperature - Surface Waters Discharge Week Ending 07/09/2011



Conductivity - Surface Waters Discharge Week ending 07/09/2011

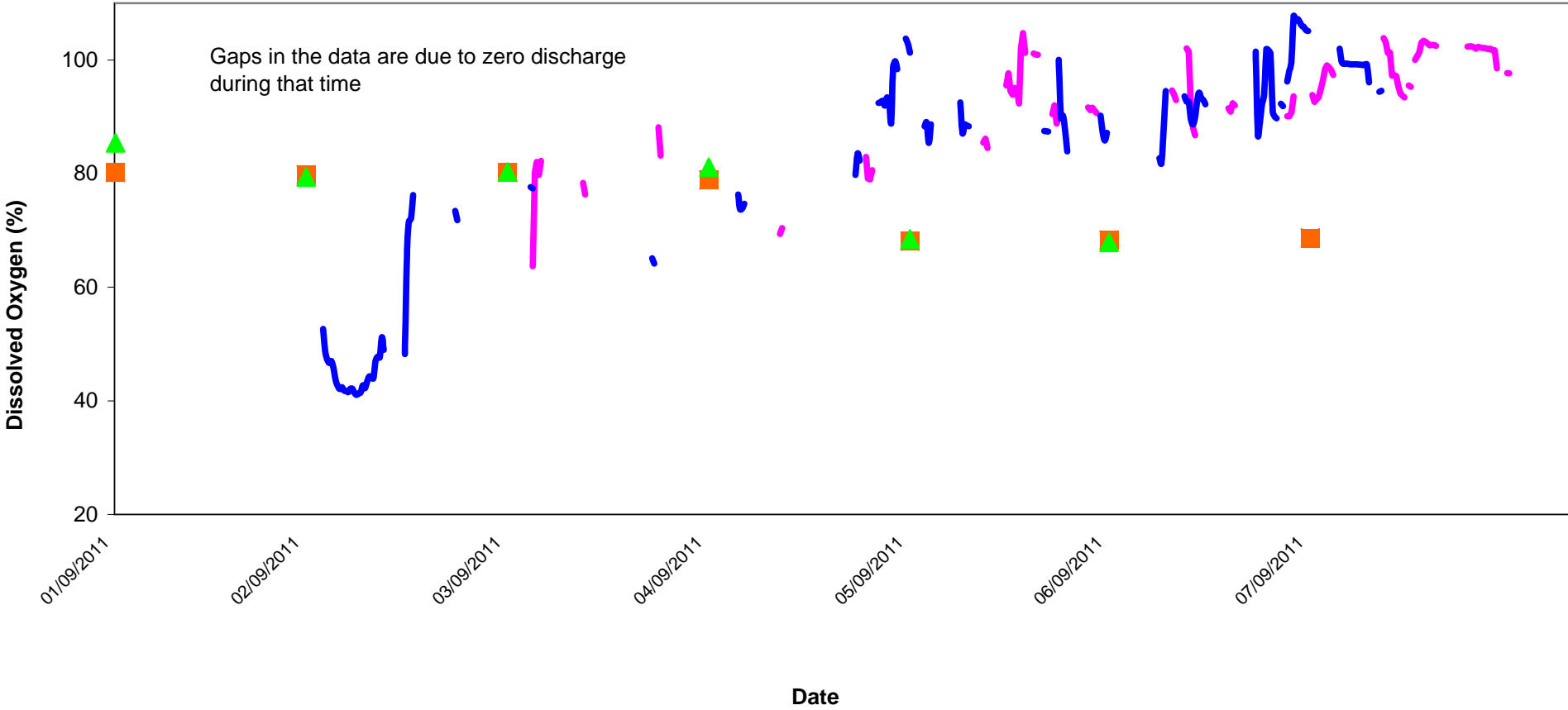


pH - Surface Waters Discharge Week Ending 07/09/2011



Dissolved Oxygen - Surface Waters Discharge Week Ending 07/09/2011

SB1 SB2 Composite DO SB1 Composite DO SB2



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	
DL2	01/09/2011	13.0	76.6	163	5.0	5.8	95
DL2	02/09/2011		85.4	120	0.6	4.6	
DL2	05/09/2011	14.2	81.9	116	9.5	5.4	68
DL2	06/09/2011	13.6	82.6	190	22.1	6.8	119
DL3	07/09/2011	17.4	88.5	120	12.4	6.7	72
	Grey shaded areas denote parameters that cannot or were not analysed on-site.						
	= Indicative Only						
	Blue shaded area denotes results that were carried out by the accredited laboratory						
< LOD	= Below Limit of Detection		> LOD	= Above Limit of Detection			