

# 1 Monitoring Data

## 1.1 Monitoring Equipment

Noise	Two noise monitoring locations are currently being used – AN1 and 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
06/10/2011	13.6
07/10/2011	8.7
08/10/2011	7.7
09/10/2011	9.2
10/10/2011	7.7
11/10/2011	5.9
12/10/2011	6.9
Total	59.7

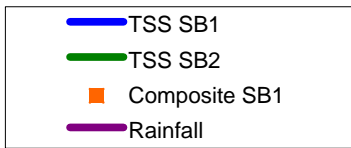
## 1.3 Summary

Environment	Comments
Weather	There was a total of 59.7mm of rainfall during the reporting period, with a temperature range of 9.3°C to 12.4°C.
Noise	There were no noise level exceedences during the reporting period.
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. There was no discharge of surface water between the 6 <sup>th</sup> and 10 <sup>th</sup> of October.

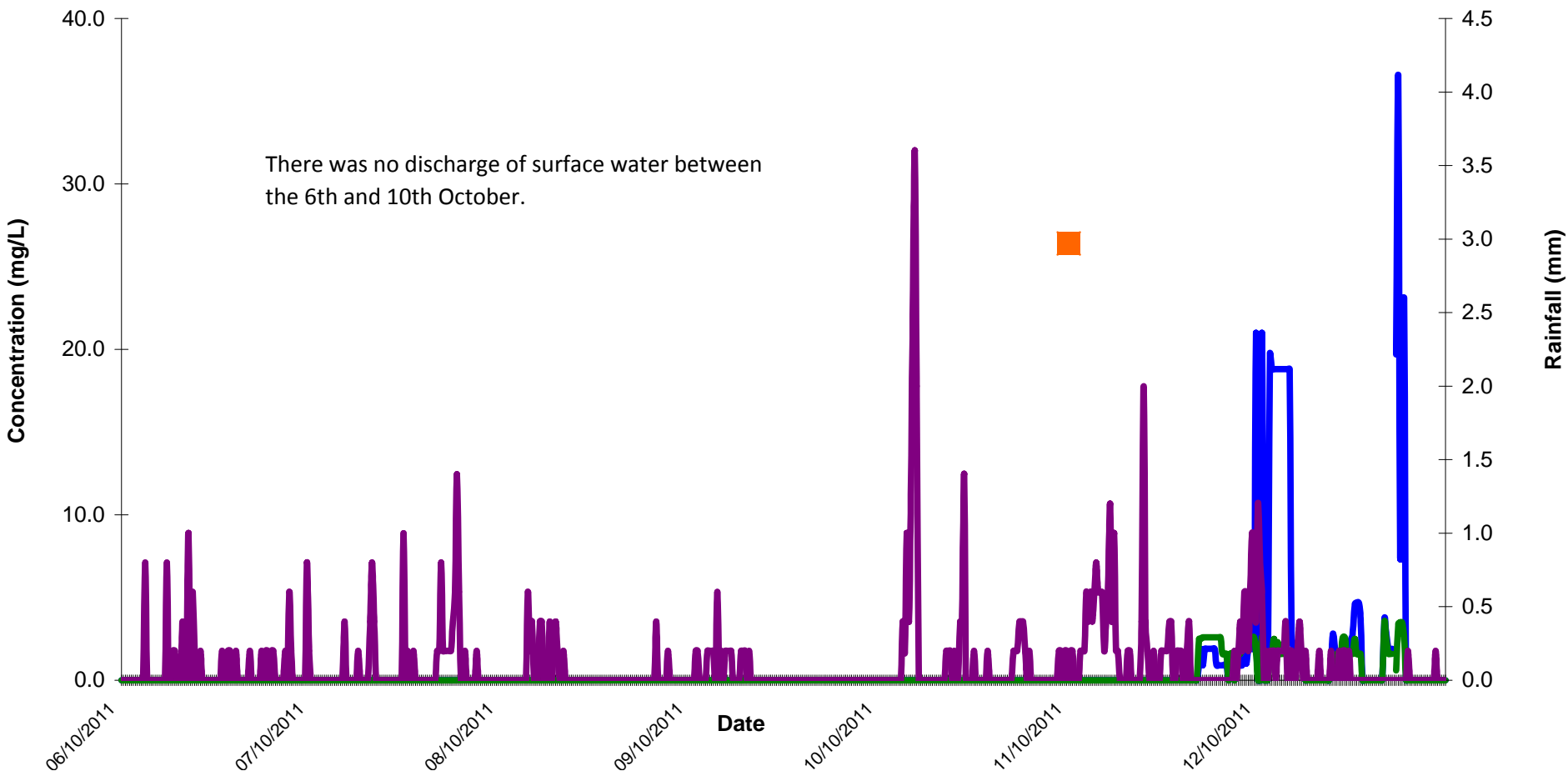
# 2 Environmental Exceedances / Incidents /

There were no environmental exceedences during the reporting period.

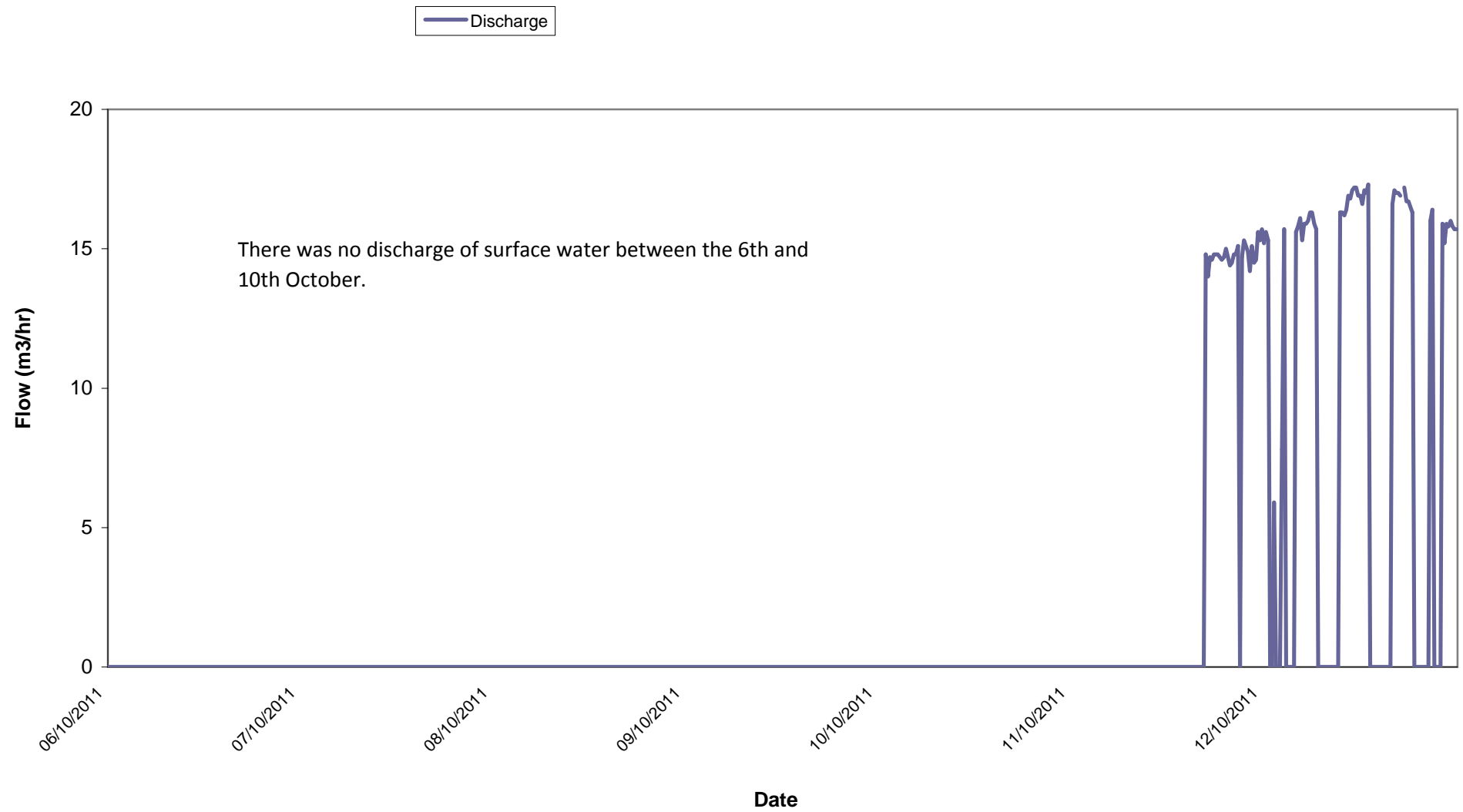
Day Time Noise Monitoring Record Sheet										
Determinant Results										
Location	Air Temp. (Min)	Air Temp. (Max)	Start Date and Time	Duration	Wind		Results dB			*Comments
					Speed (m/s)*	Direction (Degrees)	L <sub>Aeq</sub>	L <sub>Amax</sub>	L <sub>Amin</sub>	
Action Limit							60.0			
Target Limit							65.0			
AN1	9.6	13.0	10/10/2011 18:00	01:00	4.4	252.8	58.3	68.8	41.1	
AN1	11.0	12.8	11/10/2011 10:00	01:00	3.9	270.1	56.0	79.1	35.1	
AN1			12/10/2011 18:00	01:00	4.0	249.9	53.0	71.2	27.9	No temperatite data available - faulty probe
AN2	6.9	11.2	06/10/2011 12:00	03:00	7.8	290.4	60.2	79.1	48.5	
AN2	8.8	13.1	07/10/2011 00:00	04:00	6.0	309.2	59.6	74.1	45.6	
AN2	9.6	13.0	10/10/2011 15:00	05:00	4.4	252.8	57.8	73.3	44.7	
AN2	11.0	12.8	11/10/2011 13:00	06:00	3.9	270.1	58.7	73.1	45.5	
AN2			12/10/2011 11:00	01:00	4.0	249.9	56.8	74.0	44.0	No temperatite data available - faulty probe
* 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 Laeq(1hr) for each day of monitoring										



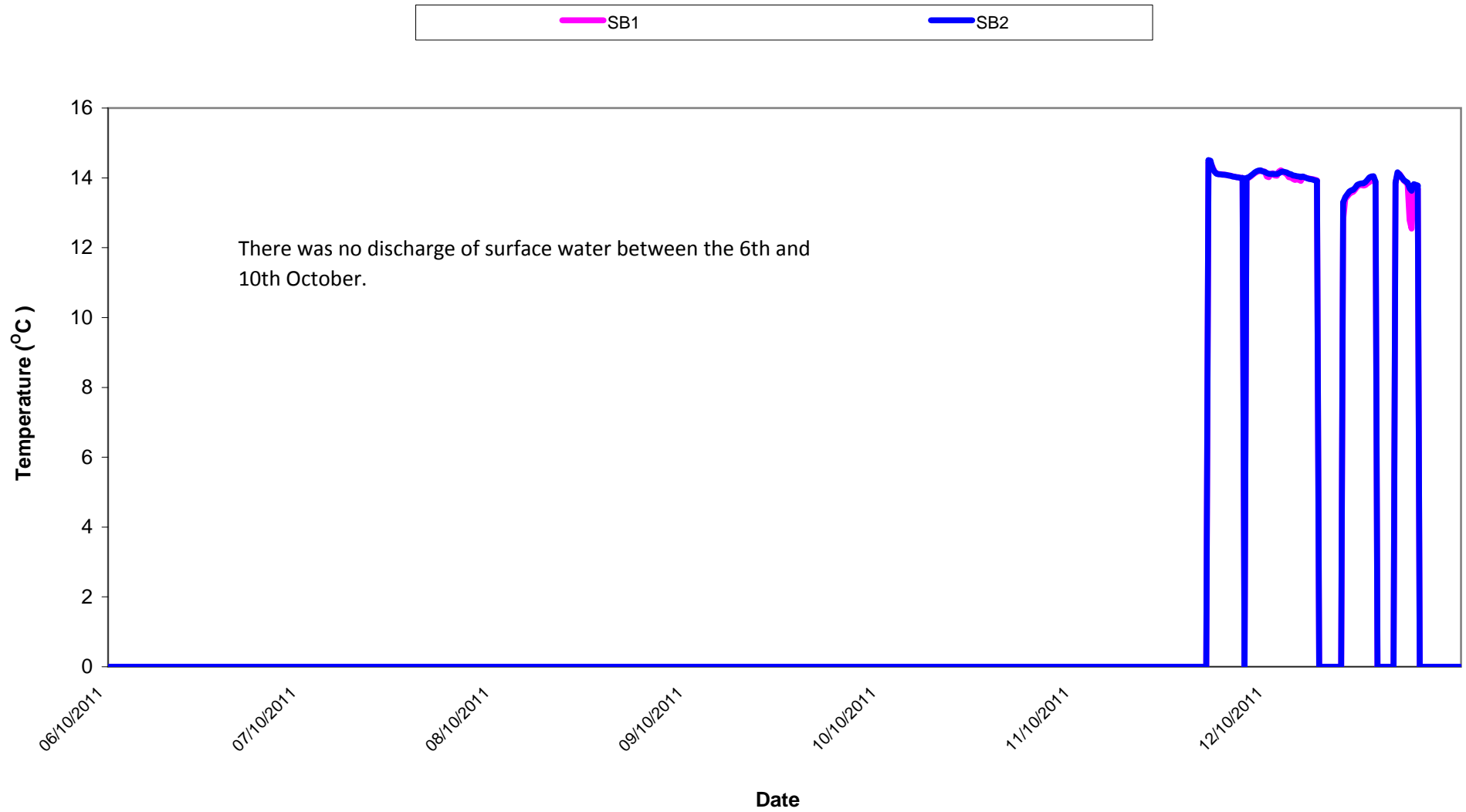
**Total Suspended Solids Week Ending 12/10/2011**



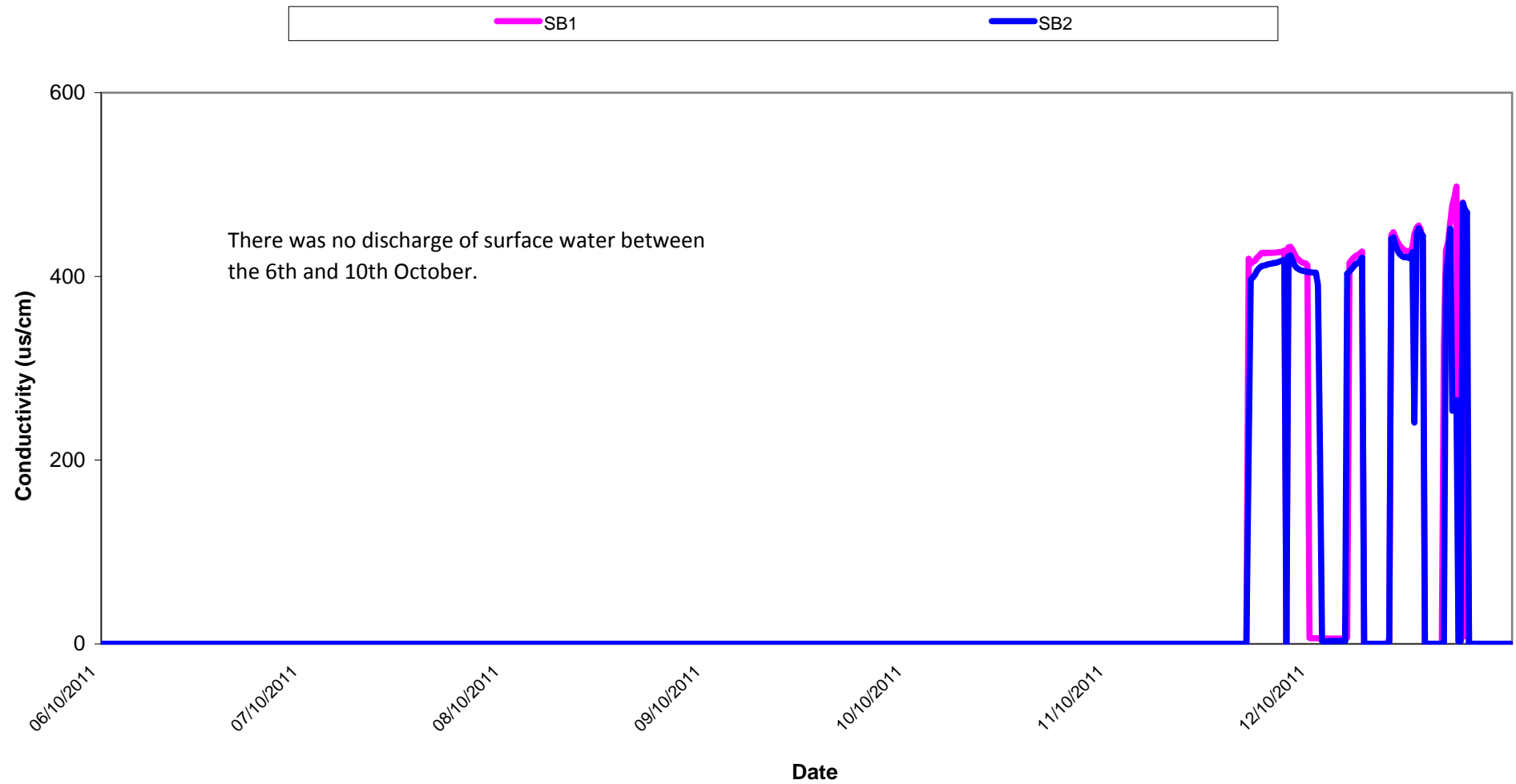
# Flow - Surface Waters Discharge Week ending 12/10/2011



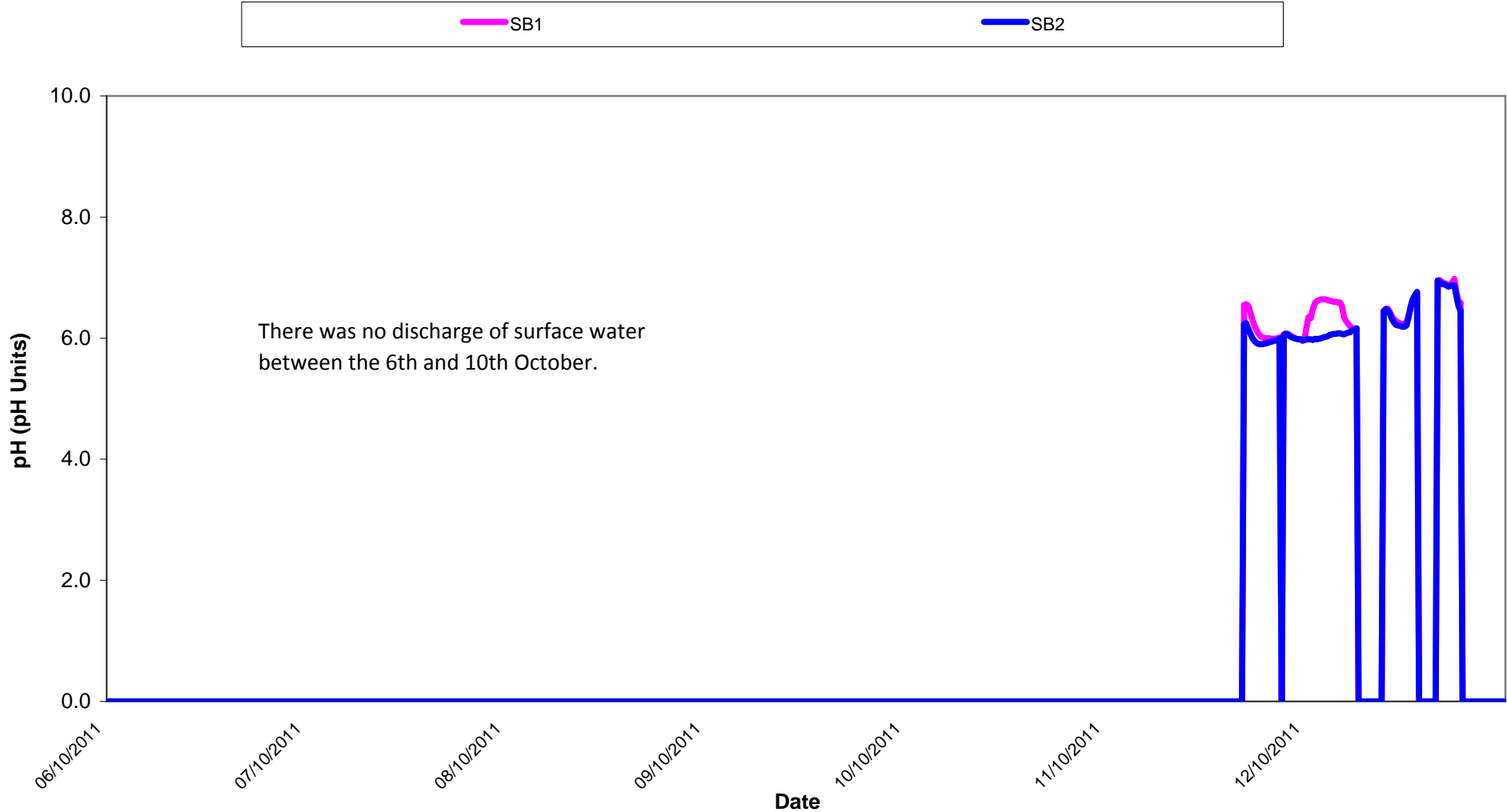
# Temperature - Surface Waters Discharge Week ending 12/10/2011



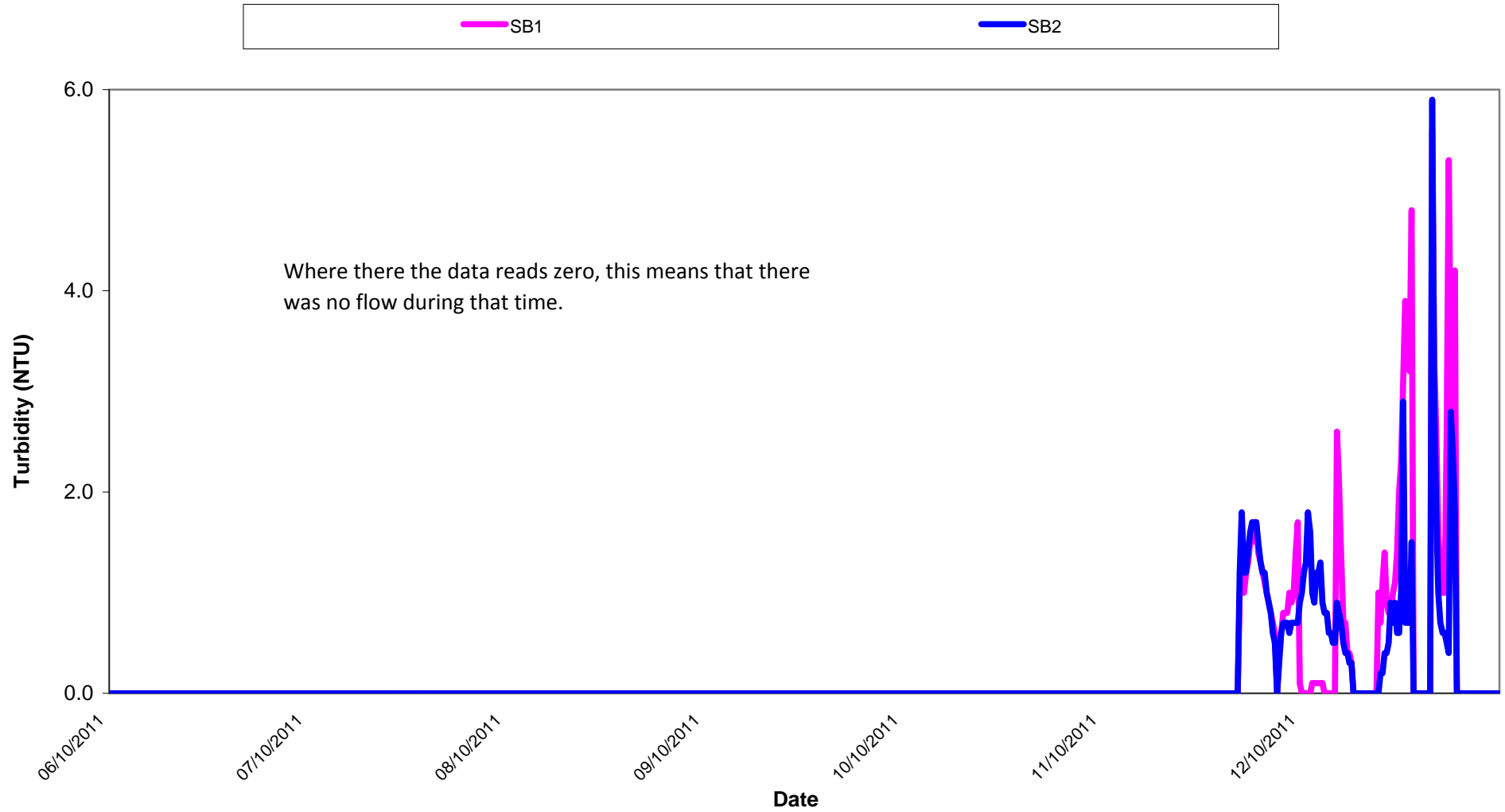
## Conductivity - Surface Waters Discharge Week ending 12/10/2011



pH - Surface Waters Discharge  
Week Ending 12/10/2011

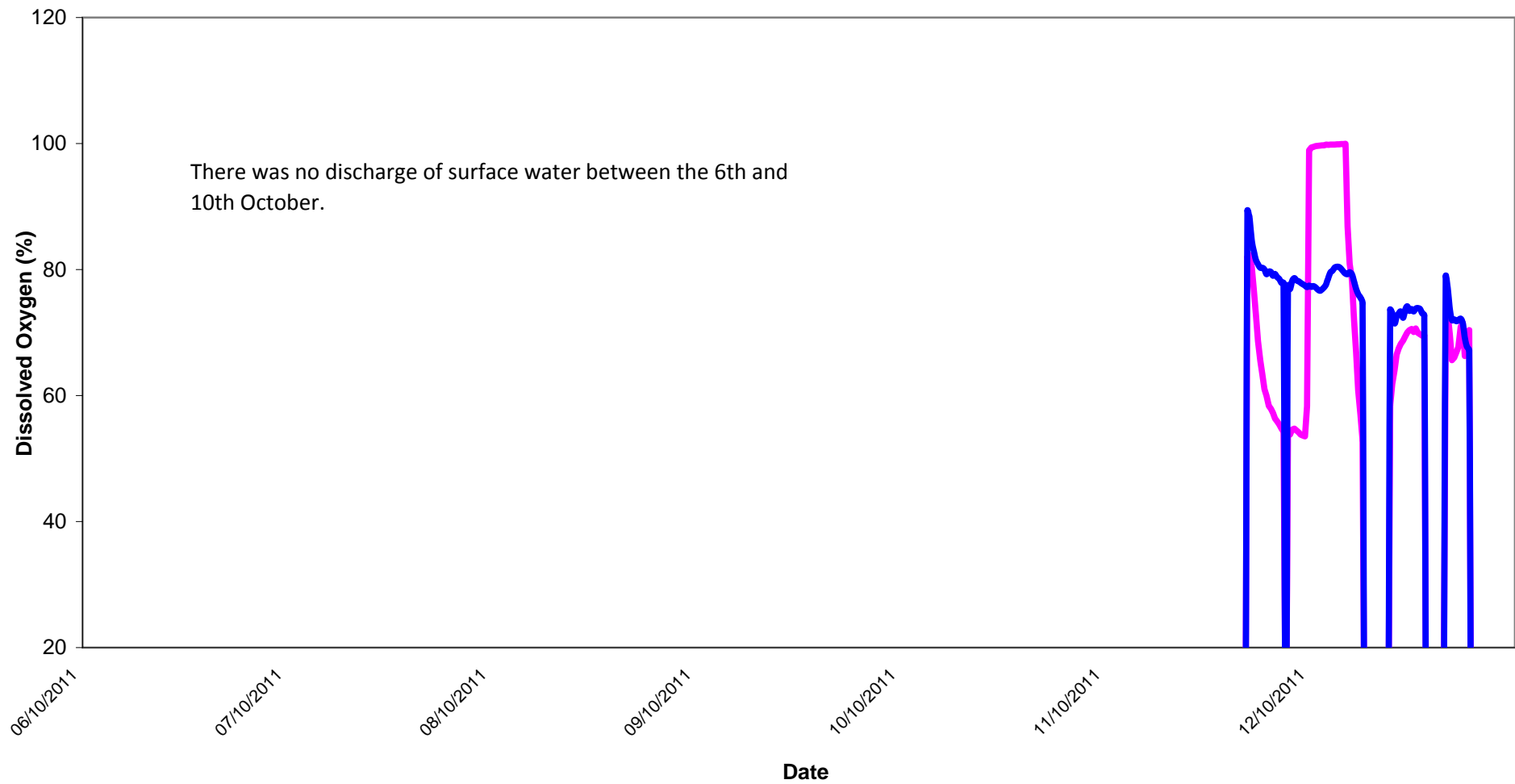


# Turbidity - Surface Waters Discharge Week Ending 12/10/2011





# Dissolved Oxygen - Surface Waters Discharge Week Ending 12/10/2011



## **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	06/10/2011	12.2	68.0	197	5.4	6.5	126
DL2	07/10/2011	11.9	58.6	204	5.6	6.7	129
DL2	10/10/2011	13.1	62.2	203	11.4	6.1	120
DL2	11/10/2011	13.6	69.4	168	16.7	6.4	98
DL2	12/10/2011	13.2	57.7	186	16.0	6.5	107
	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		