

1 Monitoring Data

1.1 Monitoring Equipment

Noise	Six noise monitoring locations are currently being used – NSR1 & NSR2 (Compliance monitoring points) and AN1, AN2, AN3, GN1 and RN1 (information purposes). The noise meters 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 Silbuster.
Sondes	The results are displayed graphically.
Discharge pipe flow	The results are displayed graphically.

1.2 Rainfall Data

Date	Rainfall mm
02/02/2012	0.0
03/02/2012	1.6
04/02/2012	7.8
05/02/2012	1.4
06/02/2012	0.8
07/02/2012	0.0
08/02/2012	9.2
Total	20.8

1.3 Summary

Environment	Comments
Weather	There was a total of 20.8mm of rainfall during the reporting period, with a temperature range of 0.6°C to 10.9°C.
Noise	There were no noise exceedences during the reporting period. Unable to download meter GN1, so results will be provided upon rectification of issue.
Surface Water	There were no identified surface water exceedences during the reporting period.

2 Environmental Exceedances / Incidents /

There were no identified environmental exceedances during this reporting period.

Day Time Noise Monitoring / Max Hourly or above 60dB L_{Aeq} Record Sheet - Compliance monitoring locations
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}	
NSR1	0.5	5.3	02/02/2012 16:00:00	1:00:00	1.3	134.0	49.5	69.0	36.0	Construction at Glengad commenced 06/02/2012
NSR1	1.1	8.0	03/02/2012 15:00:00	1:00:00	3.0	135.3	51.1	71.6	37.4	
NSR1	6.0	10.1	04/02/2012 08:00:00	1:00:00	6.6	195.5	59.6	74.3	36.1	
NSR1	10.8	8.7	06/02/2012 13:00:00	1:00:00	2.7	228.8	46.9	70.5	25.5	
NSR2			06/02/2012 16:00:00	1:00:00	1.1	146.3	57.4	80.1	38.3	
NSR1	6.0	9.9	07/02/2012 08:00:00	1:00:00	0.9	149.8	53.7	70.2	37.6	
NSR2			07/02/2012 16:00:00	1:00:00	2.4	140.0	53.3	71.8	41.6	
NSR1	8.3	9.3	08/02/2012 16:00:00	1:00:00	2.6	167.3	51.9	70.4	36.3	
NSR2			08/02/2012 16:00:00	1:00:00	2.6	167.3	60.5	86.6	46.0	

* 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 $L_{Aeq}(1hr)$ for maximum daily values or values over 60dB for each day of monitoring

NSR1	NSR2	
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Day Time Noise Monitoring / Max Hourly or above 60dB L_{aeq} Record Sheet - Support monitoring data
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}	
AN1	-2.6	5.3	02/02/2012 09:00:00	1:00:00	0.6	113.3	66.4	83.4	48.4	
			02/02/2012 11:00:00	1:00:00			62.1	78.5	49.9	No weather data due to system maintenance on weather station
			02/02/2012 12:00:00	1:00:00	1.8	123.5	62.9	79.0	46.8	
			02/02/2012 13:00:00	1:00:00	2.3	144.5	60.7	80.1	39.4	
			02/02/2012 15:00:00	1:00:00	2.2	136.0	64.3	85.0	44.9	
			02/02/2012 16:00:00	1:00:00	1.3	134.0	63.3	79.6	47.7	
AN2			02/02/2012 11:00:00	1:00:00			61.8	82.4	36.2	No weather data due to system maintenance on weather station
			02/02/2012 16:00:00	1:00:00	1.3	134.0	60.4	75.2	38.4	
AN3			02/02/2012 08:00:00	1:00:00	0.5	229.0	39.5	58.8	28.0	
RN1			02/02/2012 15:00:00	1:00:00	2.2	136.0	51.7	81.5	33.8	
AN1	4.6	7.0	03/02/2012 08:00:00	1:00:00	3.1	143.3	65.1	87.4	49.3	
			03/02/2012 09:00:00	1:00:00	2.1	140.0	66.2	88.3	40.7	
			03/02/2012 10:00:00	1:00:00	1.7	133.3	60.2	82.1	40.1	
			03/02/2012 11:00:00	1:00:00	2.2	130.8	65.3	87.6	49.4	
			03/02/2012 12:00:00	1:00:00	2.9	115.3	63.5	84.9	48.6	
			03/02/2012 13:00:00	1:00:00	3.3	144.8	63.8	84.2	40.5	
AN2			03/02/2012 15:00:00	1:00:00	3.0	135.3	63.6	82.8	48.7	
			03/02/2012 09:00:00	1:00:00	2.1	140.0	62.1	75.8	37.9	
			03/02/2012 11:00:00	1:00:00	2.2	130.8	60.8	75.6	39.1	
			03/02/2012 15:00:00	1:00:00	3.0	135.3	63.1	86.2	38.6	
			03/02/2012 16:00:00	1:00:00	2.7	144.3	63.0	85.3	37.9	
			03/02/2012 15:00:00	1:00:00	3.0	135.3	40.7	64.3	30.7	
AN3			03/02/2012 15:00:00	1:00:00	3.0	135.3	40.7	64.3	30.7	
RN1			03/02/2012 09:00:00	1:00:00	2.1	140.0	54.8	78.6	33.6	
AN1	7.2	10.1	04/02/2012 08:00:00	1:00:00	6.6	195.5	67.0	80.1	41.1	
			04/02/2012 09:00:00	1:00:00	6.7	197.3	65.7	78.9	40.7	
			04/02/2012 10:00:00	1:00:00	6.6	183.0	65.3	80.0	39.7	
			04/02/2012 08:00:00	1:00:00	6.6	195.5	60.8	76.7	43.6	
			04/02/2012 09:00:00	1:00:00	6.7	197.3	60.4	75.2	43.5	
			04/02/2012 10:00:00	1:00:00	6.6	183.0	63.5	82.2	43.5	
AN2			04/02/2012 16:00:00	01:00:00	3.0	284.8	52.5	73.5	32.3	
AN3			04/02/2012 09:00:00	1:00:00	6.7	197.3	58.8	82.9	48.3	
RN1			04/02/2012 09:00:00	1:00:00	6.7	197.3	58.8	82.9	48.3	
AN1	9.5	10.8	06/02/2012 14:00:00	1:00:00	1.8	213.5	60.3	81.2	40.7	
			06/02/2012 17:00:00	1:00:00	1.7	197.8	66.8	81.8	38.5	
			04/02/2012 09:00:00	1:00:00	1.3	207.0	58.9	76.9	38.7	
			06/02/2012 11:00:00	1:00:00	1.5	226.3	49.5	76.0	28.6	
			06/02/2012 10:00:00	1:00:00	0.7	214.5	53.0	76.0	23.5	
			06/02/2012 10:00:00	1:00:00	0.7	214.5	53.0	76.0	23.5	
AN1	8.5	9.9	07/02/2012 08:00:00	1:00:00	0.9	149.8	70.5	84.4	51.2	
			07/02/2012 09:00:00	1:00:00	2.0	111.0	68.6	82.1	45.2	
			07/02/2012 10:00:00	1:00:00	0.8	104.5	64.9	82.3	45.9	
			07/02/2012 11:00:00	1:00:00	1.6	131.3	61.8	77.9	47.5	
			07/02/2012 12:00:00	1:00:00	1.9	134.8	64.6	82.6	45.9	
			07/02/2012 13:00:00	1:00:00	2.1	137.8	65.3	81.7	36.3	
AN2			07/02/2012 17:00:00	1:00:00	1.9	149.0	60.7	79.5	35.9	
			07/02/2012 13:00:00	1:00:00	2.1	137.8	60.4	74.7	37.3	
			07/02/2012 16:00:00	1:00:00	2.4	140.0	40.8	58.7	29.6	
			07/02/2012 14:00:00	1:00:00	2.0	140.8	51.1	79.4	31.8	
			07/02/2012 14:00:00	1:00:00	2.0	140.8	51.1	79.4	31.8	
			07/02/2012 14:00:00	1:00:00	2.0	140.8	51.1	79.4	31.8	
AN1	8.5	9.3	08/02/2012 13:00:00	1:00:00	4.1	167.5	63.5	80.3	48.3	
			08/02/2012 16:00:00	1:00:00	2.6	167.3	60.3	76.0	40.2	
			08/02/2012 08:00:00	1:00:00	3.6	142.8	58.5	72.6	40.0	
			08/02/2012 16:00:00	1:00:00	2.6	167.3	47.5	74.6	32.0	
			08/02/2012 11:00:00	1:00:00	3.6	154.8	58.1	86.9	38.0	
			08/02/2012 11:00:00	1:00:00	3.6	154.8	58.1	86.9	38.0	

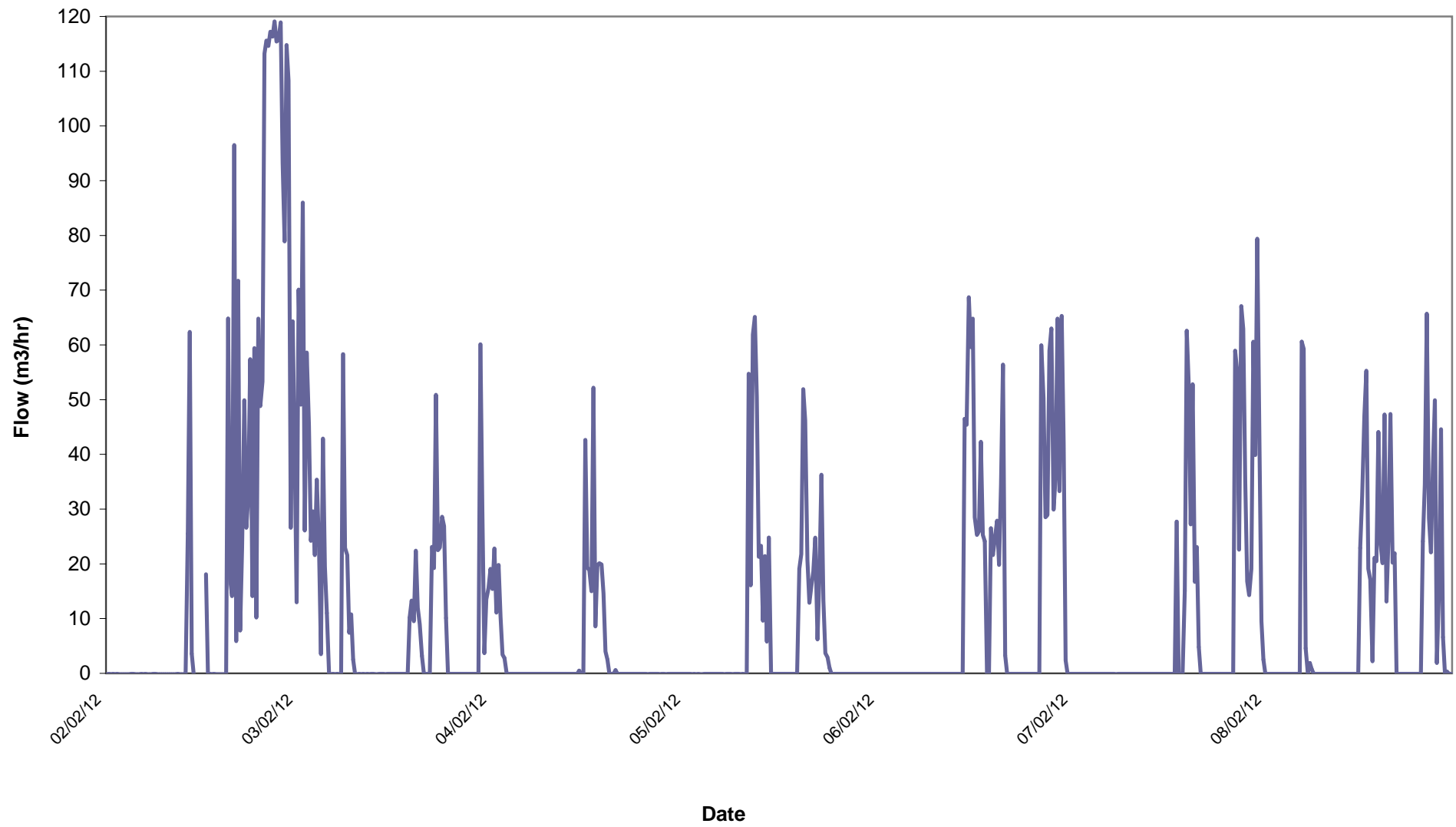
* Wind speeds in excess of 5 m/s negatively impact noise readings (as per EPA Guidance Note on Noise Measurement).

** Allowance of +/- 1.5dB accuracy of sound level meter (ref: IEC 61672 (2002-2005))

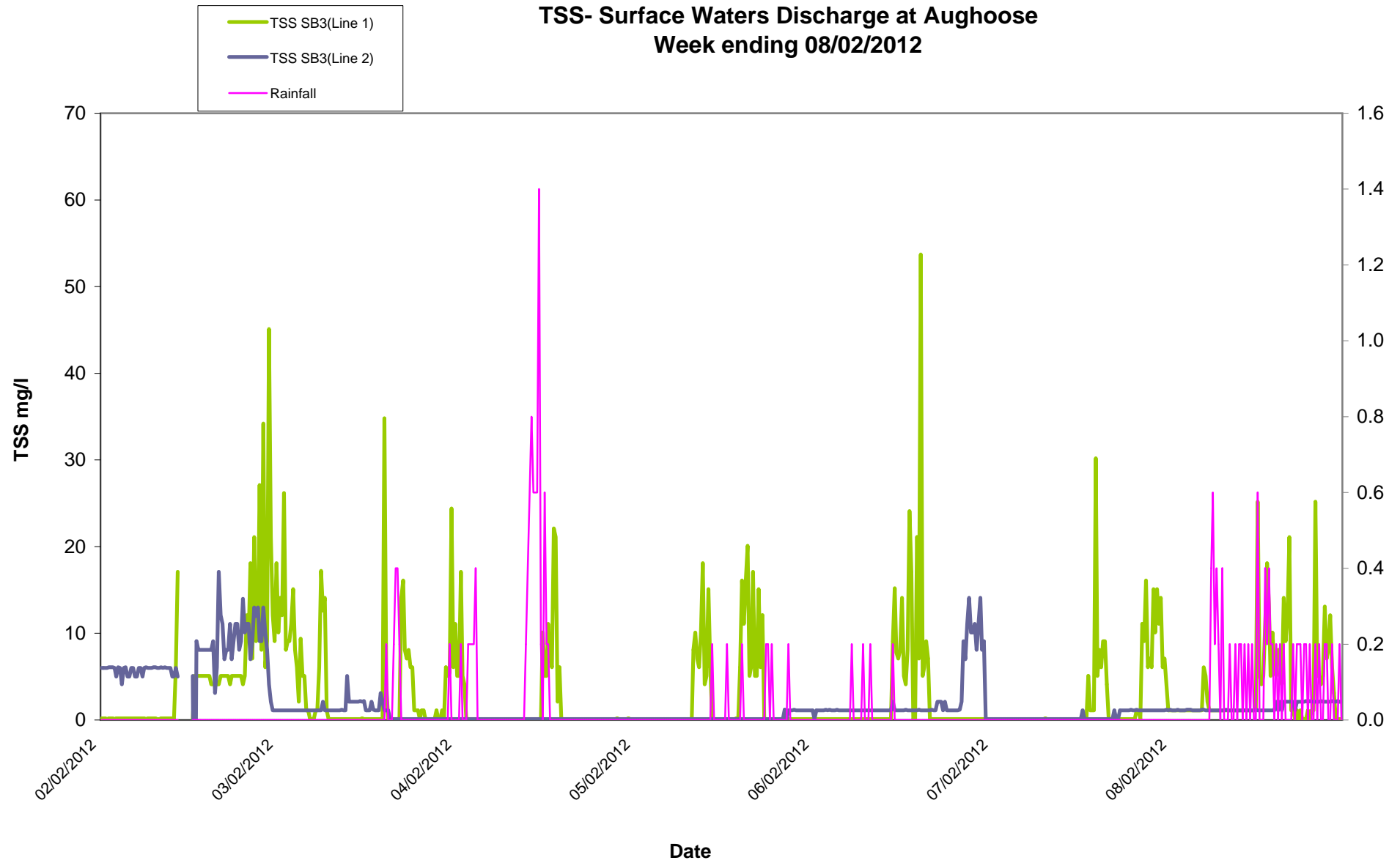
The results show Laeq(1hr) for maximum daily values or values over 60dB for each day of monitoring

AN1 noise		AN2		AN3		NSR1		RN1	
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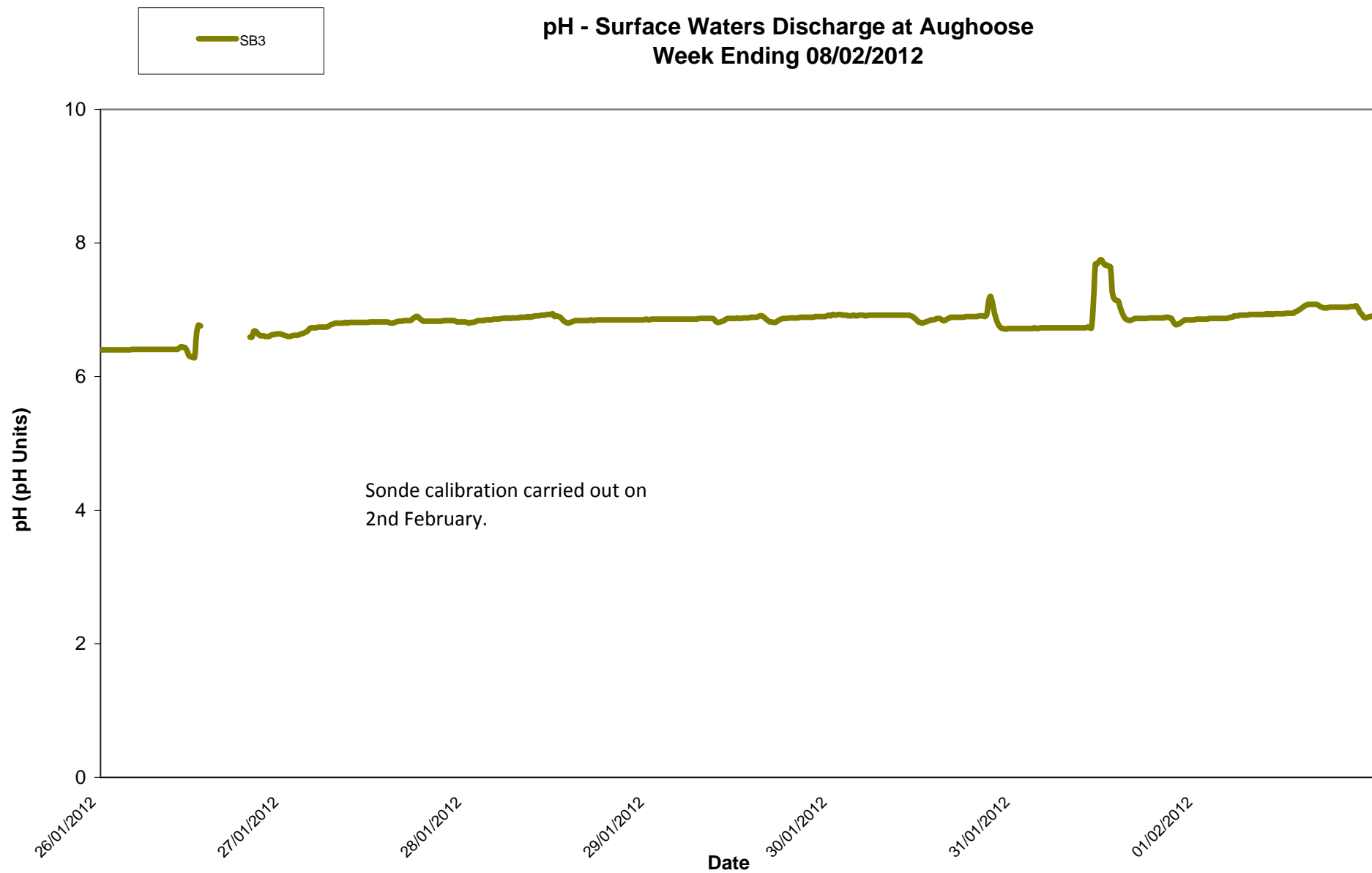
— SB3 Flow




TSS- Surface Waters Discharge at Aughoose Week ending 08/02/2012



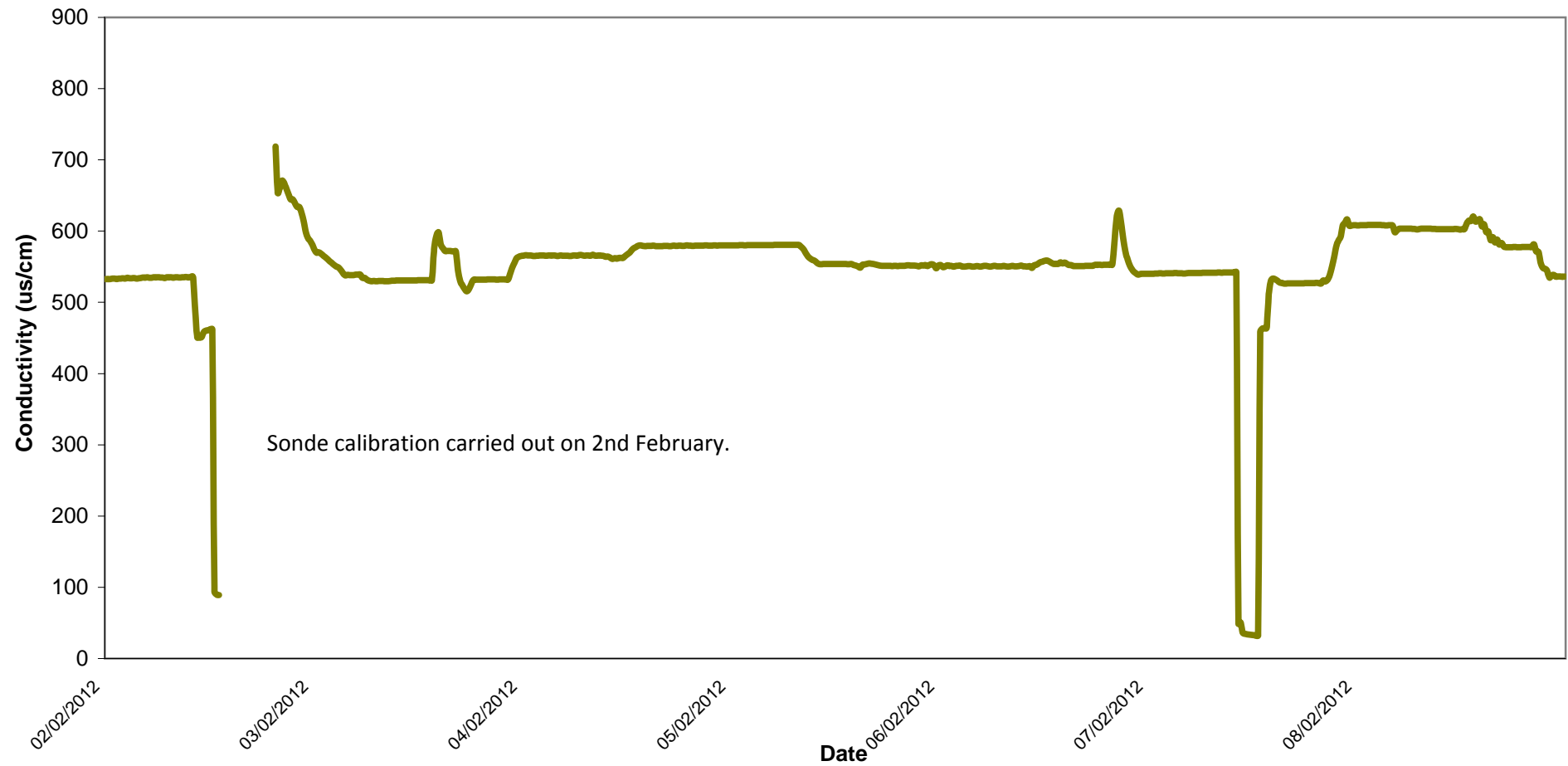
**pH - Surface Waters Discharge at Aughooose
Week Ending 08/02/2012**

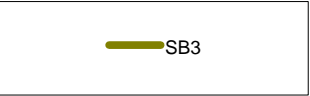




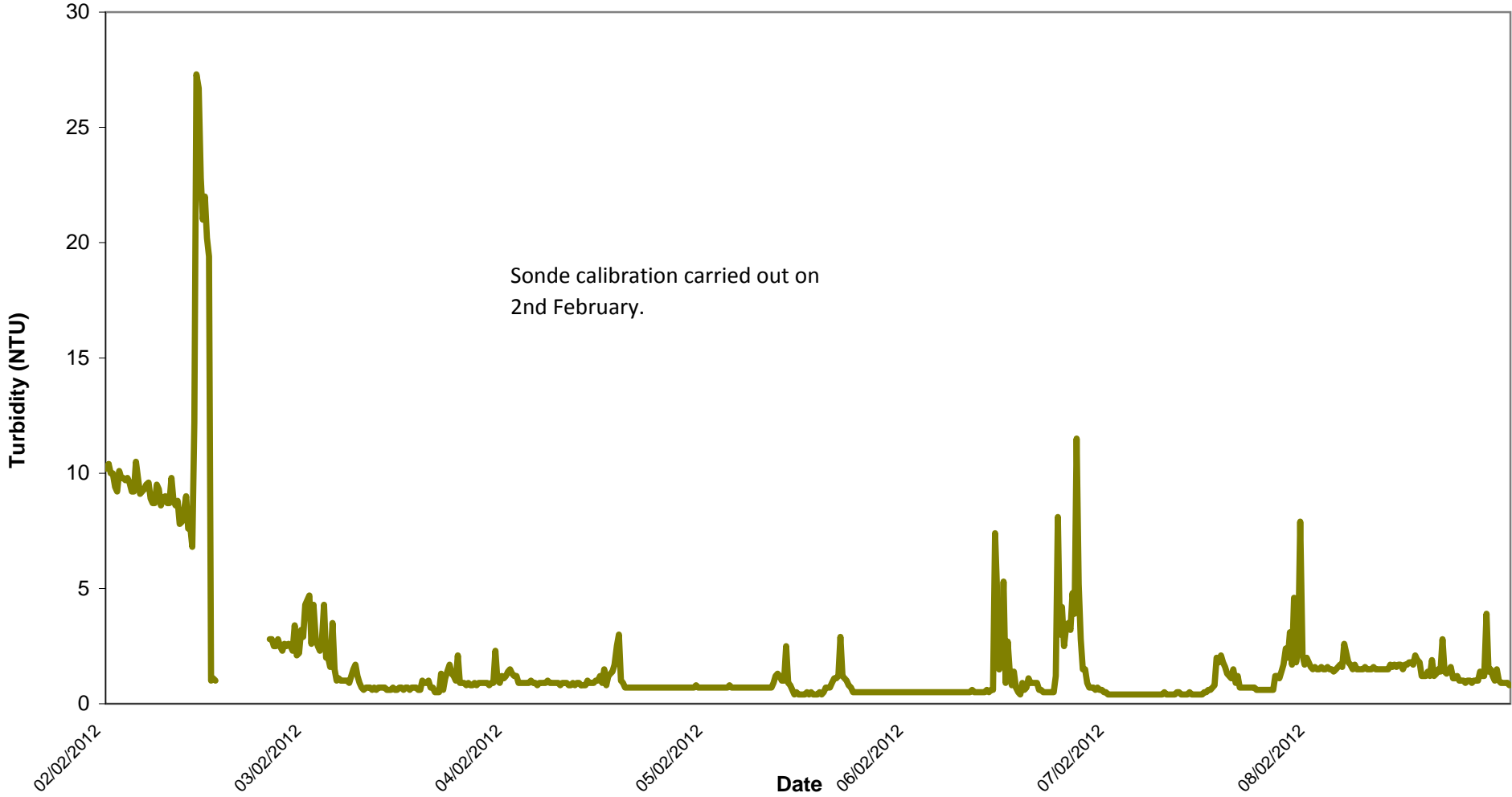
SB3

Conductivity - Surface Waters Discharge at Aughoose Week ending 08/02/2012

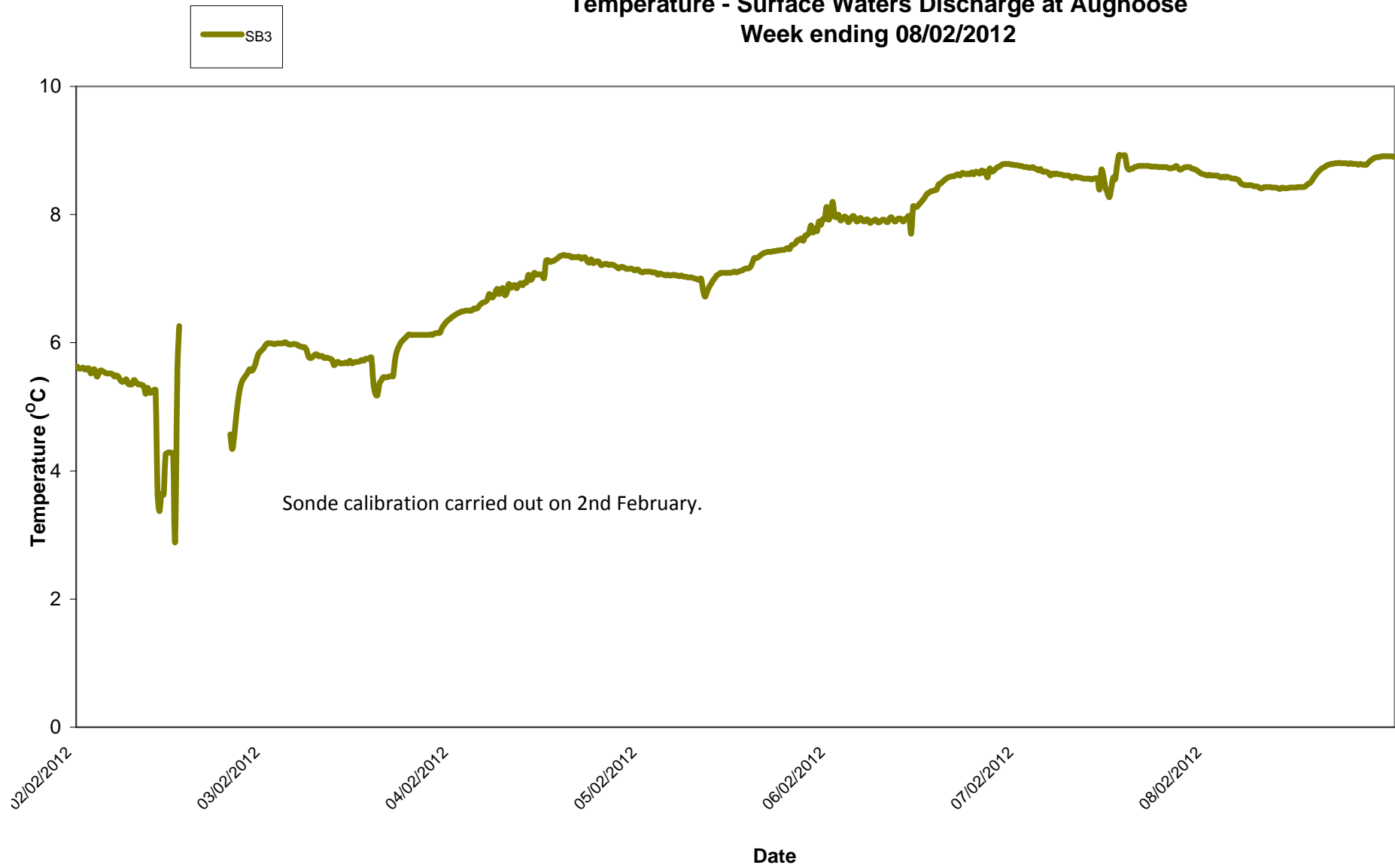




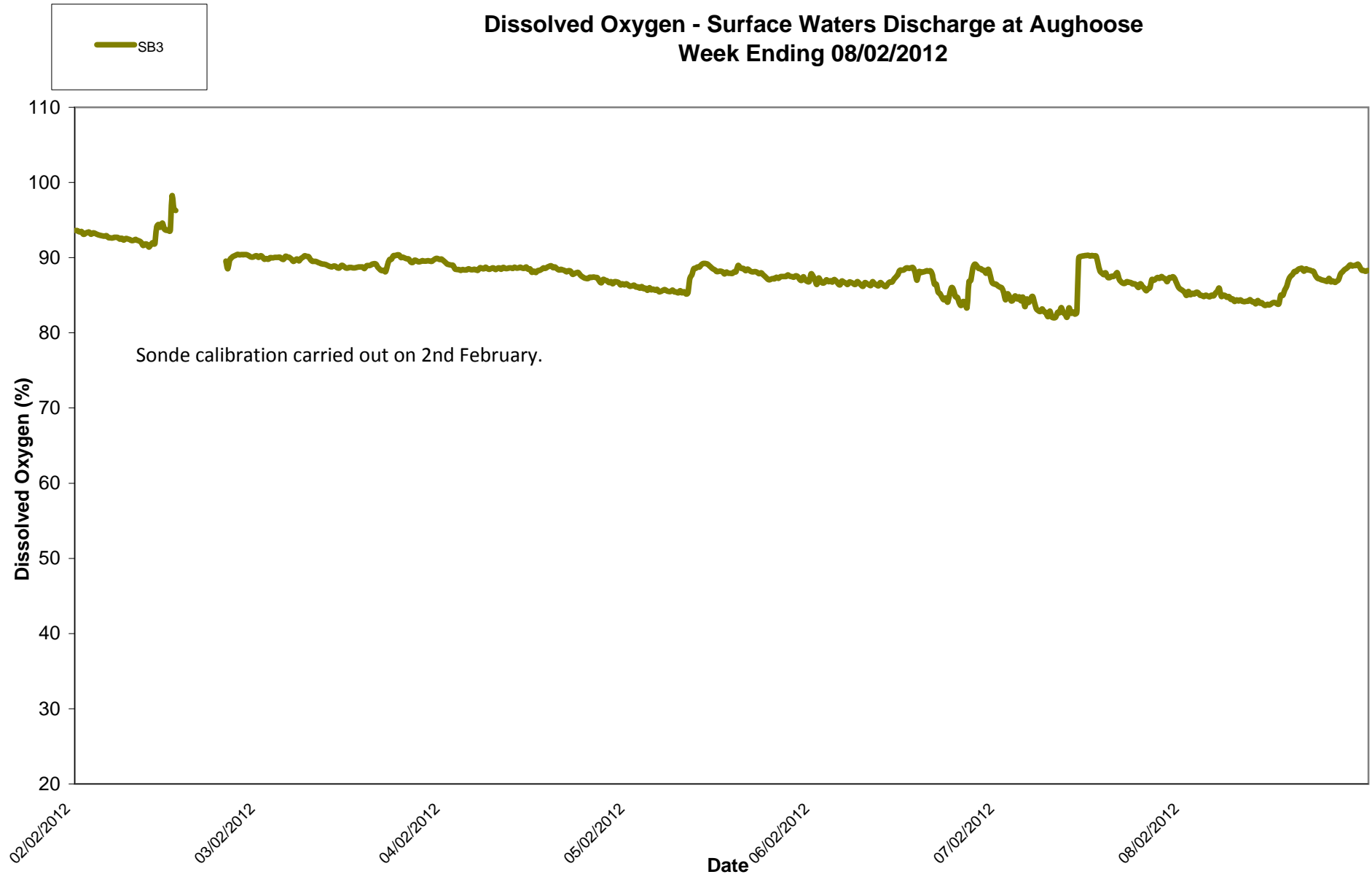
Turbidity - Surface Waters Discharge at Aughoose
Week Ending 08/02/2012



Temperature - Surface Waters Discharge at Aughooose
Week ending 08/02/2012



Dissolved Oxygen - Surface Waters Discharge at Aughooose Week Ending 08/02/2012



Appendix 1

Appendix 1: Surface Water Monitoring Record Sheet- Onsite Monitoring						
Location	Date	Temp	DO	Cond.	Turbidity	pH
		C	% Sat	µS/cm	NTU	pH Units
DL2	02/02/2012	3.1	81.7	501	4.1	6.7
DL2	03/02/2012	5.7	73.3	539	2.3	6.6
DL2	06/02/2012	8.1	88.6	466	7.1	6.5
DL2	07/02/2012	8.2	20.8	385	6.0	6.9
DL2	08/02/2012	8.6	42.8	467	6.0	7.2
= Indicative Only						
< LOD	= Below Limit of Detection		> LOD	= Above Limit of Detection		