

Corrib Gas Pipeline Environmental Report	Period Ending:	31 st October 2011
Compiled By:	Siobhan Sheridan & Carmel Carey	
Approved By:	Aoife Reynolds	

1 Monitoring Data

1.1 Monitoring Equipment

Noise	Two noise monitoring locations currently being used- AN2 and NSR1. The sound meters record in the 1/3 octave band.
Vibration	There is a single vibration monitoring point being used- V3
Weather Station	The data used for this reporting period was taken from the Terminal Site meteorological station.
TSS	The TSS analyser was operational during the reporting period
Sonde	The results are displayed graphically.
Discharge pipe flow	The results are displayed graphically.

1.2 Rainfall Data

Date	Rainfall mm	Date	Rainfall mm	Date	Rainfall mm
1/10/11	0.0	12/10/11	3.6	23/10/11	28.6
2/10/11	0.8	13/10/11	0.4	24/10/11	4.2
3/10/11	1.8	14/10/11	5.2	25/10/11	1.2
4/10/11	2.6	15/10/11	5.8	26/10/11	5.4
5/10/11	6.8	16/10/11	6.4	27/10/11	1.2
6/10/11	4.4	17/10/11	22.6	28/10/11	0.0
7/10/11	1.4	18/10/11	6.8	29/10/11	9.0
8/10/11	2.4	19/10/11	3.6	30/10/11	14.0
9/10/11	6.6	20/10/11	10.0	31/10/11	9.2
10/10/11	16.0	21/10/11	11.6		
11/10/11	11.2	22/10/11	11.6		
Total Rainfall 214.4mm					

1.3 Summary

Environment	Comments
Vibration	There were no vibration limit exceedences during the reporting period.
Weather	There was a total of 214.4mm of rainfall during the reporting period, with a temperature range of 4.9°C to 16.5°C
Noise	Noise levels exceeded the permitted limit at 09:00 4/10/11 (69.2dBA) due to a high level of personnel activity close to AN2 and at 12:00 (68.6dBA) on 5/10/11 due to high wind speeds.
Surface Water	As per the look up tables, when the monthly results were assessed the results yielded for conductivity show that there was a non-compliance with the discharge criteria.

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Environment	Comments
Groundwater Monitoring	Monitoring of groundwater undertaken during the reporting period does not show any unusual results.

Note: All laboratory data generated on site should be considered indicative only.

2 Environmental Exceedances / Incidents / Complaint

2.1 Complaints

Date	Nature of complaint	Actions taken as a result of the complaint
25/10/2011	Complaint about noise at 10.40a.m on the 25 th October 2011.	Noise monitoring results issued to the complainant. Results were lower than assigned limits.
26/10/2011	Complaint about noise on 25/10/2011	Clarification sought from the complainant on the time of noise.

2.2 Exceedance

Date and Time	October
Location	Siltbuster discharge
Nature of Incident	Conductivity levels of the surface water elevated over target limits early in October. The cause of the exceedance was due to the dosing concentration being set to low. The automatic dosing system was adjusted to 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. Upgrade of dosing pump.
Category	Environmental Exceedance
Status	Closed

2.3 Incidents

There was no incident during the reporting period.

Surface Water Monitoring Results - Accredited Laboratory												
	Date	Cond.	Turbidity	DO %	pH	TSS	Orthophosphate as PO4	Extractable HC/DRO (C8-C40) total and dissolved	PRO (C5 - C12) total and dissolved	TOC	DIN (TON as N + Ammonia as N)	COD
		µS/cm	NTU	mg/l		mg/l	mg/l	ug/l	ug/l	mg/l	mg/l	mg/l
Composites												
SB1	01/10/2011	383	3.9	69.8	7.8	2	0.04	<200	<100	12.8	0.27	47
SB2	01/10/2011	365	8.9	68.5	7.8	7	<0.03	<200	116	16.5	0.28	59
SB1	02/10/2011	418	2.6	68.5	7.4	2	0.03	<200	104	11.6	0.26	50
SB2	02/10/2011											
SB1	03/10/2011	580	8.8	67.9	10.0	34	<0.03	<200	<100	12.0	0.48	43
SB2	03/10/2011	488	6.3	68.5	9.5	10	<0.03	<200	<100	14.3	0.18	46
SB1	04/10/2011	594	11.9	68.6	10.0	19	<0.03	<200	111	13.9	0.13	45
SB2	04/10/2011	644	11.5	68.4	10.2	31	<0.03	<200	126	12.3	0.01	49
SB1	05/10/2011	841	23.7	68.3	10.5	13	0.22	<200	<100	21.6	<0.1	60
SB2	05/10/2011	538	15.3	68.9	8.9	11	<0.03	<200	<100	18.0	0.18	54
SB1	06/10/2011	582	22.2	68.4	9.4	10	<0.03	<200	<100	19.5	0.20	62
SB2	06/10/2011	488	6.5	68.3	7.9	2	<0.03	<200	<100	14.8	0.29	49
SB1	07/10/2011	537	12.7	68.3	7.8	25	<0.03	<200	<100	16.5	0.29	59
SB2	07/10/2011	497	3.1	68.5	7.3	2	<0.03	<200	<100	11.8	0.36	43
SB1	08/10/2011	536	11.2	65.3	7.9	18	<0.03	<200	<100	15.6	0.30	54
SB2	08/10/2011	506	2.4	68.3	7.5	2	<0.03	<200	<100	11.0	0.32	44
SB1	09/10/2011	547	16.4	68.5	8.0	31	<0.03	<200	<100	18.2	0.27	63
SB2	09/10/2011	509	2.0	68.5	7.5	2	<0.03	<200	<100	10.5	0.30	40
SB1	10/10/2011	551	26.4	68.5	8.3	15	0.19	250	<100	18.6	<0.10	74
SB2	10/10/2011	505	2.0	68.3	7.9	2	<0.03	<200	<100	9.6	3.20	54
SB1	11/10/2011	468	14.8	65.8	8.0	25	<0.03	<200	<100	13.3	0.14	47
SB2	11/10/2011	365	1.2	68.6	6.6	2	<0.03	208	<100	5.5	0.04	27
SB1	12/10/2011	403	1.6	67.5	6.7	2	<0.03	278	<100	6.7	0.05	27
SB2	12/10/2011	404	6.7	69.5	6.6	2	<0.03	<200	<100	6.9	0.06	32
SB1	13/10/2011	403	1.8	68.5	7.0	2	0.06	<200	<100	8.1	0.15	36
SB2	13/10/2011	415	1.1	68.7	7.0	7	<0.03	<200	<100	6.8	0.14	27
SB1	14/10/2011	384	1.7	68.6	7.5	5	0.30	276	<100	8.5	<0.10	26
SB2	14/10/2011	374	1.4	68.6	7.5	2	<0.03	<200	<100	8.8	0.02	30
SB1	15/10/2011	380	1.8	68.5	7.6	2	<0.03	<200	<100	9.2	<0.1	26
SB2	15/10/2011	381	1.8	68.5	7.3	2	<0.03	<200	<100	8.4	0.02	26
SB1	16/10/2011	386	2.1	68.4	7.5	2	<0.03	314	<100	9.1	0.02	28
SB2	16/10/2011	387	1.6	68.6	7.2	3	<0.03	346	<100	9.1	0.01	37
SB1	17/10/2011	370	2.4	68.5	7.0	2	0.23	<200	<100	10.9	<0.10	39
SB2	17/10/2011	370	2.6	66.9	7.1	3	<0.03	<200	<100	10.5	0.06	40
SB1	18/10/2011	357	3.5	68.3	7.0	2	<0.03	<200	<100	10.7	0.04	36
SB2	18/10/2011	359	3.3	68.3	7.1	10	0.18	<200	<100	10.8	0.14	38
SB1	19/10/2011	257	1.7	65.3	7.0	2	0.06	<100	<100	9.1	0.34	38
SB2	19/10/2011	257	1.3	68.4	7.3	2	<0.03	<200	<100	8.3	0.36	28
SB1	20/10/2011	257	2.0	68.5	7.3	5	0.16	<200	<100	8.8	0.21	36
SB2	20/10/2011	257	2.1	68.5	7.3	2	0.08	<200	<100	9.8	0.05	38
SB1	21/10/2011	343	3.6	68.2	7.3	3	0.58	<200	<100	11.3	0.02	45
SB2	21/10/2011	337	4.3	68.4	7.1	2	<0.03	<200	<100	12.1	0.54	54
SB1	22/10/2011	320	3.9	68.3	7.2	2	<0.03	<200	<100	1.0	0.21	43
SB2	22/10/2011	312	4.5	68.5	7.2	8	<0.03	<200	<100	9.6	0.21	41
SB1	23/10/2011	288	4.2	68.5	7.2	2	0.55	<200	<100	7.9	0.05	35
SB2	23/10/2011	309	4.4	68.3	7.1	2	<0.03	<200	<100	8.7	0.16	41
SB1	24/10/2011	317	2.5	68.4	7.1	2	0.29	<100	<100	6.5	1.18	32
SB2	24/10/2011	315	1.5	68.7	7.0	2	<0.03	<100	<100	6.8	0.15	32
SB1	25/10/2011	333	4.0	68.5	7.0	3	<0.03	<200	<100	8.8	0.02	28
SB2	25/10/2011	333	1.6	68.3	7.0	2	<0.03	<200	<100	7.7	0.19	32
SB1	26/10/2011	334	2.0	68.5	7.5	2	0.14	174	<100	11.5	0.19	41

SB2	26/10/2011	339	1.9	68.5	7.5	2	<0.03	158	<100	11.6	0.51	49
SB1	27/10/2011	333	3.0	68.3	7.5	2	<0.03	<200	<100	15.0	0.44	58
SB2	27/10/2011	332	3.6	68.3	7.4	3	0.18	<200	<100	14.6	0.24	55
SB1	28/10/2011	374	2.6	68.5	6.9	2	<0.03	<100	<100	14.1	0.22	53
SB2	28/10/2011	339	2.4	68.5	6.8	11	<0.03	<100	<100	11.8	0.92	40
SB1	29/10/2011	312	1.4	68.5	6.9	2	<0.03	<100	<100	7.6	0.24	25
SB2	29/10/2011	313	1.0	68.3	6.9	2	<0.03	212	<100	7.6	0.14	28
SB1	30/10/2011	294	4.8	68.4	6.9	13	<0.03	172	<100	9.3	0.29	36
SB2	30/10/2011	290	4.4	68.3	6.8	20	<0.03	184	<100	8.9	0.14	32
SB1	31/10/2011	278	1.1	68.3	6.5	2	<0.03	180	<100	7.4	0.48	30
SB2	31/10/2011	287	1.3	68.7	6.7	2	<0.03	<100	<100	6.7	0.09	28
Grab Samples DL2												
DL2	03/10/2011	250	6.2	68.9	6.7	3	0.03	<200	<100	16.2	0.03	118
DL2	04/10/2011	345	14.3	67.9	7.4	4	<0.03	<200	<100	19.8	<0.10	128
DL2	05/10/2011	230	4.4	68.9	7.2	3	<0.03	<200	<100	15.6	<0.10	75
DL2	06/10/2011	188	2.3	68.8	7.8	2	<0.03	<200	<100	14.3	<0.10	64
DL2	07/10/2011	175	3.6	68.3	7.4	2	<0.03	<100	<100	15.7	<0.10	98
DL2	10/10/2011	153	6.7	68.7	7.6	2	<0.03	<200	<100	14.9	<0.10	78
DL2	11/10/2011	127	11.0	66.8	7.8	2	<0.03	256	<100	13.4	<0.10	82
DL2	12/10/2011	143	10.8	68.5	7.5	2	<0.03	216	<100	13.4	<0.10	88
DL2	13/10/2011	184	3.0	68.5	7.1	2	<0.03	<200	<100	12.0	<0.10	73
DL2	14/10/2011	180	3.1	68.5	7.0	2	<0.03	<200	<100	14.2	0.01	90
DL2	17/10/2011	101	6.1	68.3	7.3	27	<0.03	<200	<100	14.2	<0.10	64
DL2	18/10/2011	121	8.4	66.5	7.4	6	0.13	<100	<100	12.7	0.07	16
DL2	19/10/2011	142	7.0	68.9	7.2	2	<0.03	<100	<100	12.5	0.34	43
DL2	20/10/2011	193	3.1	68.5	7.2	2	<0.03	140	<100	10.0	1.32	18
DL2	21/10/2011	131	10.3	68.3	7.6	6	0.13	<100	<100	11.6	1.00	32
DL2	24/10/2011	216	2.5	68.5	6.9	2	0.25	235	<100	6.6	1.90	33
DL2	25/10/2011	144	3.4	65.7	6.8	2	<0.03	<100	<100	9.5	0.03	41
DL2	26/10/2011	167	2.0	68.5	7.1	2	0.10	<100	<100	9.5	0.12	60
DL2	27/10/2011	94	3.3	68.3	7.2	2	0.12	<100	<100	12.2	0.43	77
DL2	28/10/2011	80	3.2	68.5	7.1	2	<0.03	<100	<100	21.4	0.16	80
Sruwaddacon Bay												
Sbay 1	11/10/2011	20600	2.3		7.3	<2		236	<100	8.3	0.06	1030
Sbay 3	11/10/2011	1975	3.0		7.6	<2		<200	<100	13.5	0.06	220
Sbay 4	11/10/2011	326	2.6		7.5	<2		<200	<100	12.9	0.04	65
Sbay 6	11/10/2011	18500	2.4		7.0	<2		<200	<100	9.4	0.06	600
I.P.	= In Progress											
< LOD	= Below Limit of Detection											
> LOD	= Above Limit of Detection											
On site laboratory results included in Appendix 1												
	Grey shaded areas denote parameters that cannot or were not analysed on-site or the lab.											

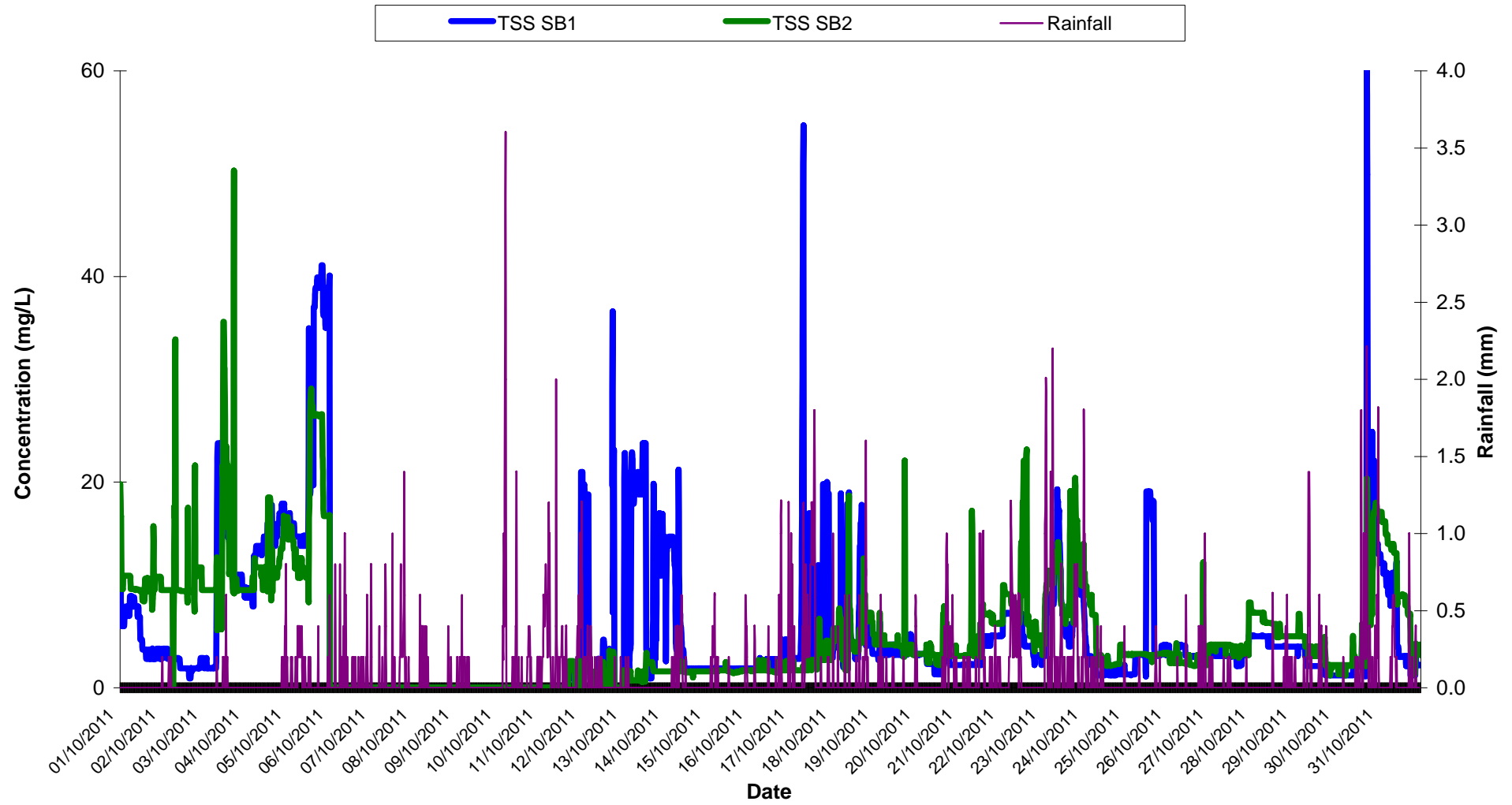
Groundwater Monitoring Results - Accredited Laboratory

Location	Date	DO	Temp	Cond.	pH	TDS	BOD	Suspende d Solids	Turbidity	Orthoph osphate as P	Ammonia as NH3-N	Total Phospho rus as P	Nitrate as NO ₃	Nitrite as NO ₂	Phosph ate as P	COD	Copper	Arsenic , total	Chromium , total	Lead, total	Cadmium, total	Tin, total	Iron, total	Mercur y	TOC
		% Sat	°C	uS/cm	pH Units	mg l ⁻¹	mg l ⁻¹	mg/l	N.T.U	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
GW1	05/10/11	40	12.9	234	6.2	234	4	136	45.5	0.845	0.263	0.77	<0.017	<0.44	2.600	24	18	12.0	3.0	7.0	1.0	0.5	39080	<0.05	7.25
GW2	05/10/11	24	11.8	546	6.3	258	15	509	512	0.159	2.340	0.62	<0.017	<0.44	0.487	33	9	3.0	7.0	52.0	<0.5	<0.5	39530	<0.05	11.6
GW3	05/10/11	32	11.8	457	6.2	214	17	47	22.8	0.211	2.980	0.19	<0.017	<0.44	0.648	36	3	5.0	3.0	2.0	<0.5	<0.5	77240	<0.05	10.7
GW4	05/10/11	41	11.2	502	6.4	236	7	26	44.4	0.204	0.585	0.05	<0.017	<0.44	0.628	22	9	3.0	1.0	1.0	<0.5	<0.5	56160	<0.05	7.94
Graphs provided for GW1 - GW4: Temperature, Conductivity, and pH.																									

Day Time Noise Monitoring/Max. Hourly Laeq reported										
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	12.5	17.9	29/09/2011 13:00	01:00	4.5	174.4	59.2	79.3	34.8	
AN2	9.1	17.5	30/09/2011 12:00	01:00	3.9	224.8	63.7	84.0	40.3	
AN2	10.5	13.6	03/10/2011 16:00	01:00	6.3	234.8	65.6	87.0	44.6	Elevated noise levels due to high winds
AN2	10.6	13.2	04/10/2011 09:00	01:00	4.8	234.6	69.2	83.4	40.3	High level of personnel activity near AN2
AN2	8.3	14.5	05/10/2011 12:00	01:00	7.4	246.7	68.6	87.5	49.8	Elevated noise levels due to high winds
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	
NSR1			10/10/2011 00:00	01:00			58.3	68.8	41.1	
AN2			11/10/2011 13:00	06:00			58.7	73.1	45.5	
NSR1	11.0	12.8	11/10/2011 10:00	01:00	3.9	270.1	56.0	79.1	35.1	
AN2			12/10/2011 00:00	01:00	4.0	249.9	56.8	74.0	44.0	No temperature data available - faulty probe
NSR1			12/10/2011 18:00	01:00			53.0	71.2	27.9	No temperature data available - faulty probe
AN2			13/10/2011 15:00	01:00			54.5	76.1	36.1	
NSR1	12.0	16.3	13/10/2011 00:00		2.1	172.9				Technical error with noise meter
AN2	13.5	16.5	14/10/2011		3.0	178.1				Loss of data due to equipment maintenance
NSR1			14/10/2011						Installation of permanant noise monitoring equipment	
AN2			17/10/2011 15:00	01:00			64.2	85.3	50.6	
NSR1	3.7	10.9	17/10/2011 17:00	01:00	4.8	272.3	58.4	82.4	33.6	
AN2	5.0	10.9	18/10/2011 15:00	01:00	6.3	306.7	61.1	86.1	47.8	
NSR1			18/10/2011 13:00	01:00			61.7	82.1	37.1	
AN2			19/10/2011 16:00	01:00			59.6	78.5	45.8	
NSR1	5.1	10.5	19/10/2011 08:00	01:00	4.6	325.8	57.1	76.6	33.6	
AN2	4.8	11.0	20/10/2011 11:00	01:00	4.4	214.9	55.1	68.4	38.5	
NSR1			20/10/2011 14:00	01:00			59.3	72.7	39.5	
AN2			21/10/2011 16:00	01:00			55.8	86.5	39.6	
NSR1	9.2	12.6	21/10/2011		12.9	207.2				Technical error with noise meter
AN2	6.4	12.7	24/10/2011 16:00	01:00	1.4	293.7	52.8	73.6	36.6	
NSR1			24/10/2011							Technical error with noise meter
AN2			25/10/2011 11:00	01:00			53.7	70.2	37.0	
NSR1	1.2	7.6	25/10/2011 11:00	01:00	1.0	117.8	54.2	74.9	32.8	
AN2	1.0	10.2	26/10/2011 16:00	01:00	8.7	148.7	59.3	91.4	34.7	
NSR1			26/10/2011 16:00	01:00			60.9	76.8	38.7	
AN2			27/10/2011 13:00	01:00			56.2	71.5	36.2	
NSR1	5.3	11.2	27/10/2011		6.6	188.4	55.5	80.8	30.6	
AN2	5.5	13.2	28/10/2011 15:00	01:00	6.9	207.5	56.2	77.7	41.8	
NSR1			28/10/2011							Technical error with noise meter
* 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										

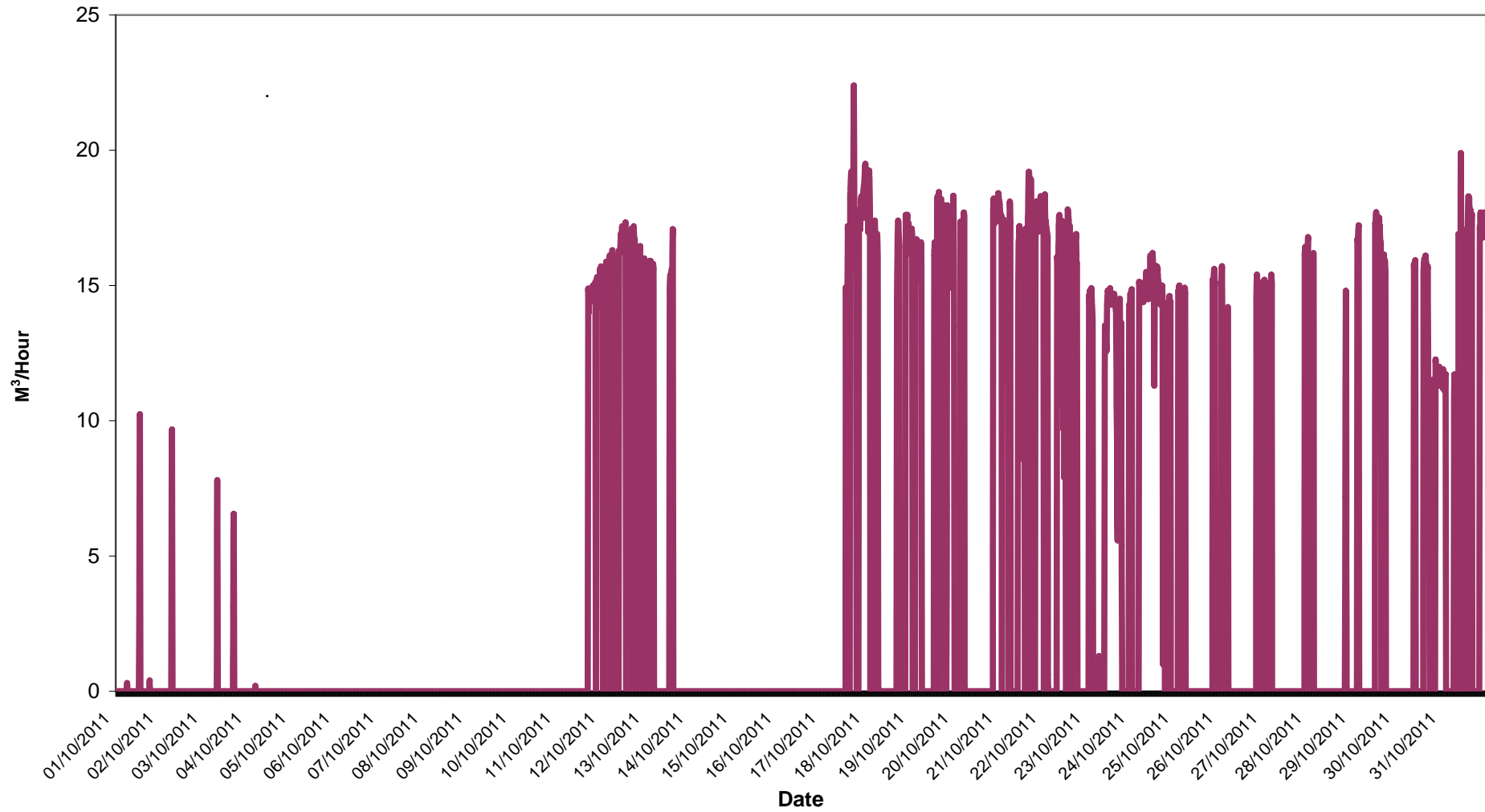
Vibration Monitoring Record Sheet			
Location	Date	PPV max (mm/s)	Comment
Minimum Criterion 8mm/s			
V3	03/10/2011	1.20	
V3	04/10/2011	1.20	
V3	05/10/2011	0.40	
V3	06/10/2011	0.32	
V3	07/10/2011	0.32	
V3	10/10/2011	0.88	
V3	11/10/2011	0.32	
V3	12/10/2011	0.32	
V3	13/10/2012	0.32	
V3	14/10/2012	0.56	
V3	17/10/2012	0.64	
V3	18/10/2012	0.40	
V3	19/10/2012	0.80	
V3	20/10/2012	0.32	
V3	21/10/2012	0.32	
V3	24/10/2011	0.32	
V3	25/10/2011	0.32	
V3	26/10/2011	0.32	
V3	27/10/2011	0.32	
V3	28/10/2011	0.32	

Total Suspended Solids October 2011

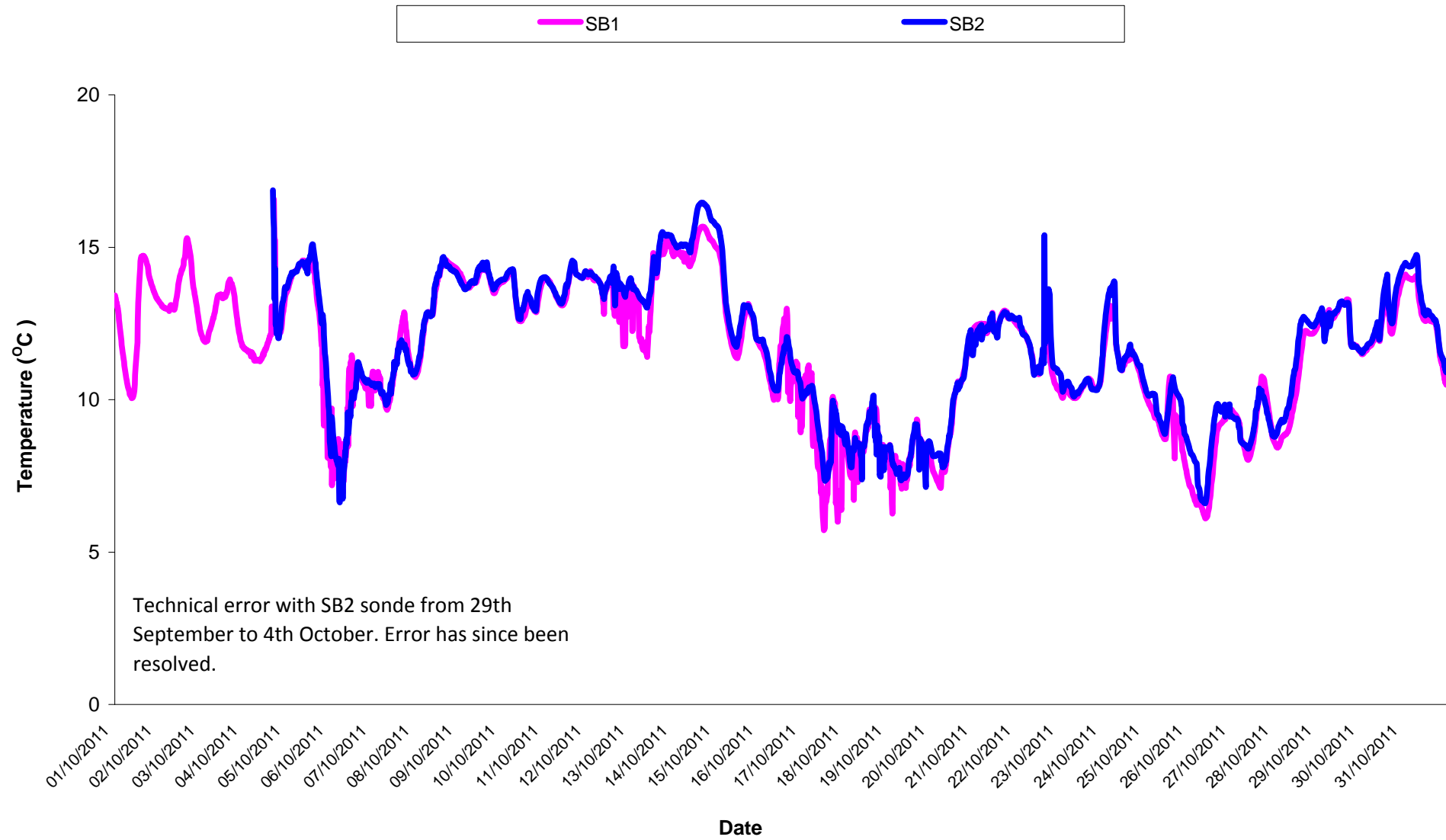


Surface Water Discharge October 2011

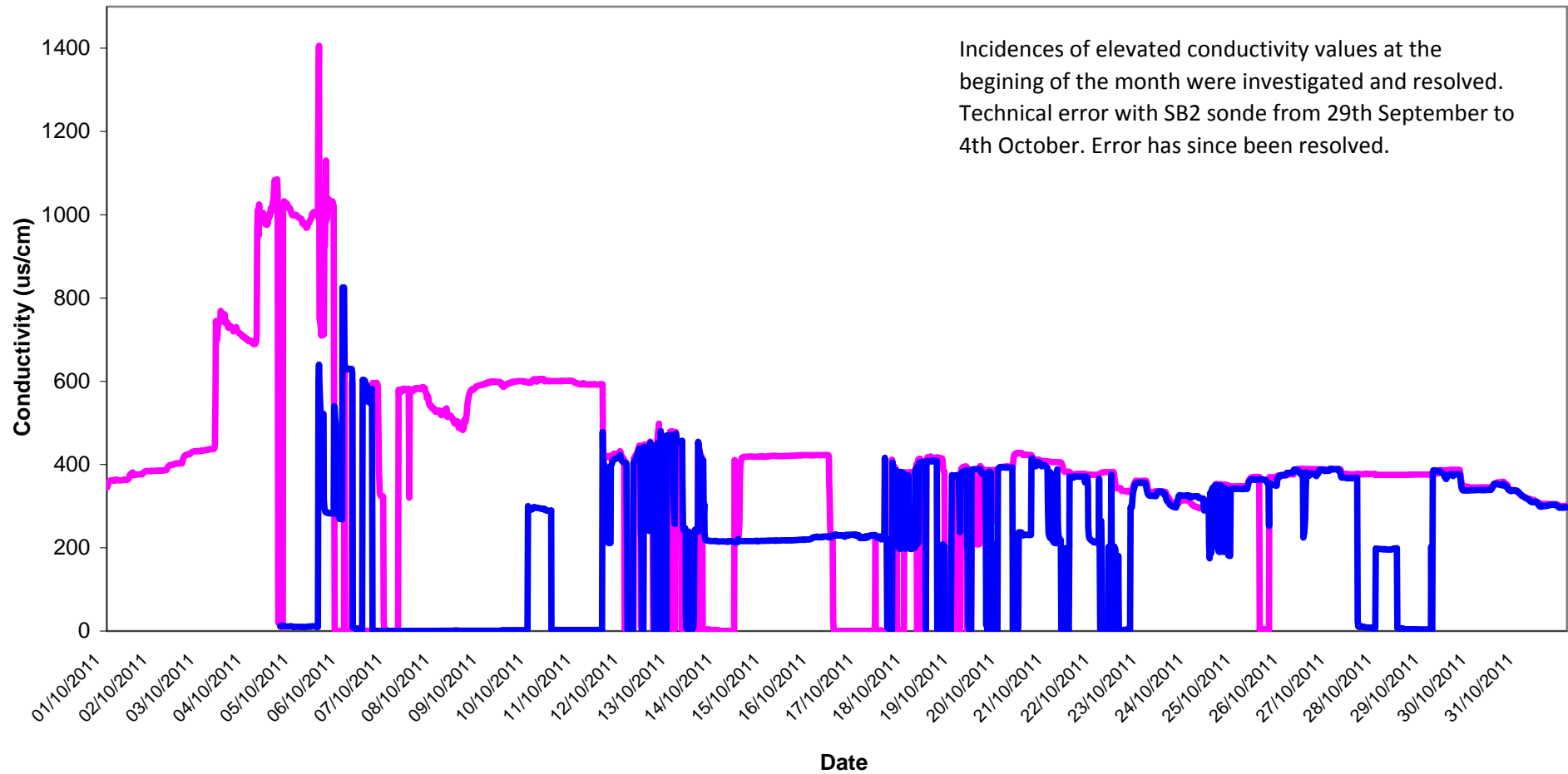
Water Discharge



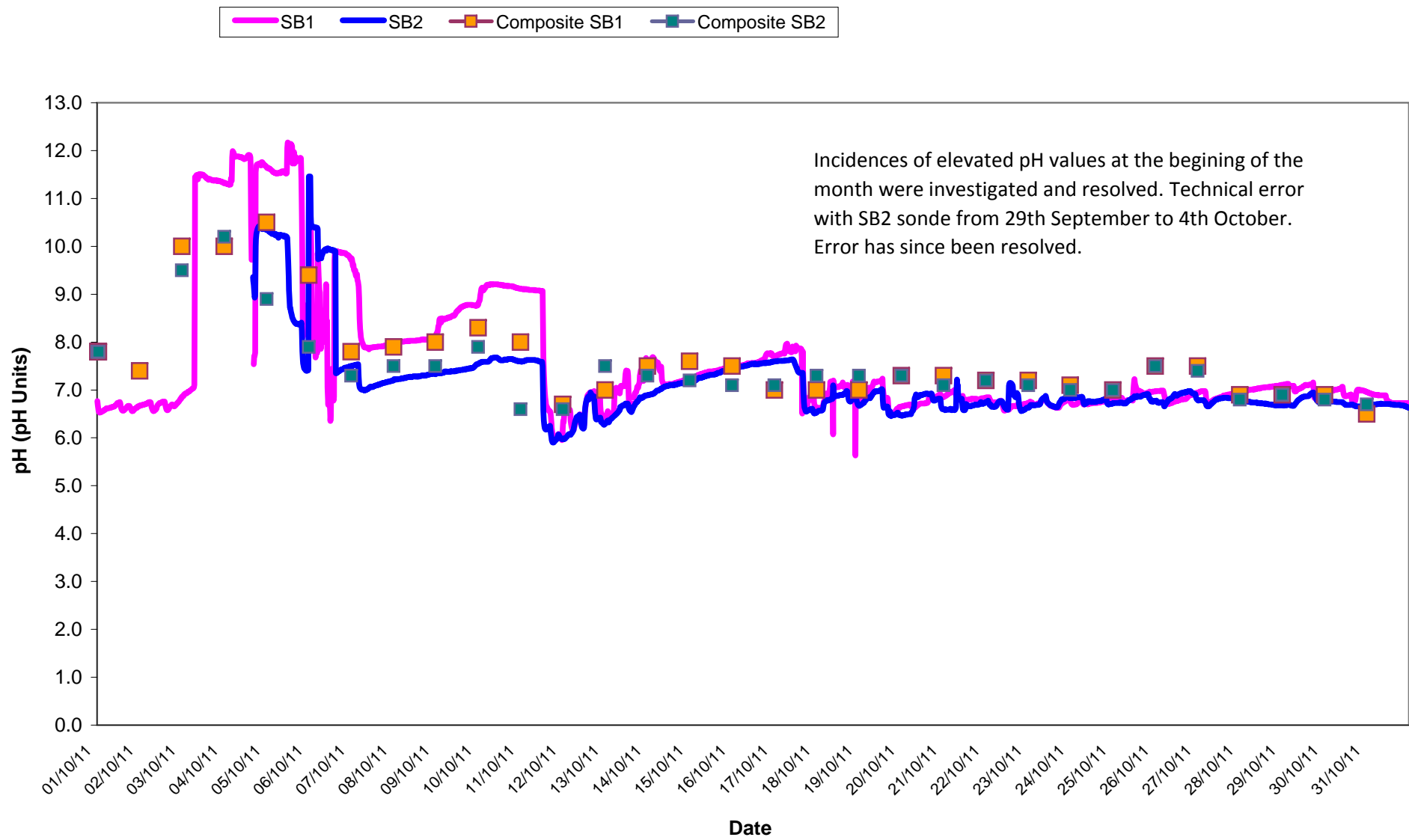
Temperature - Surface Water Discharge October 2011



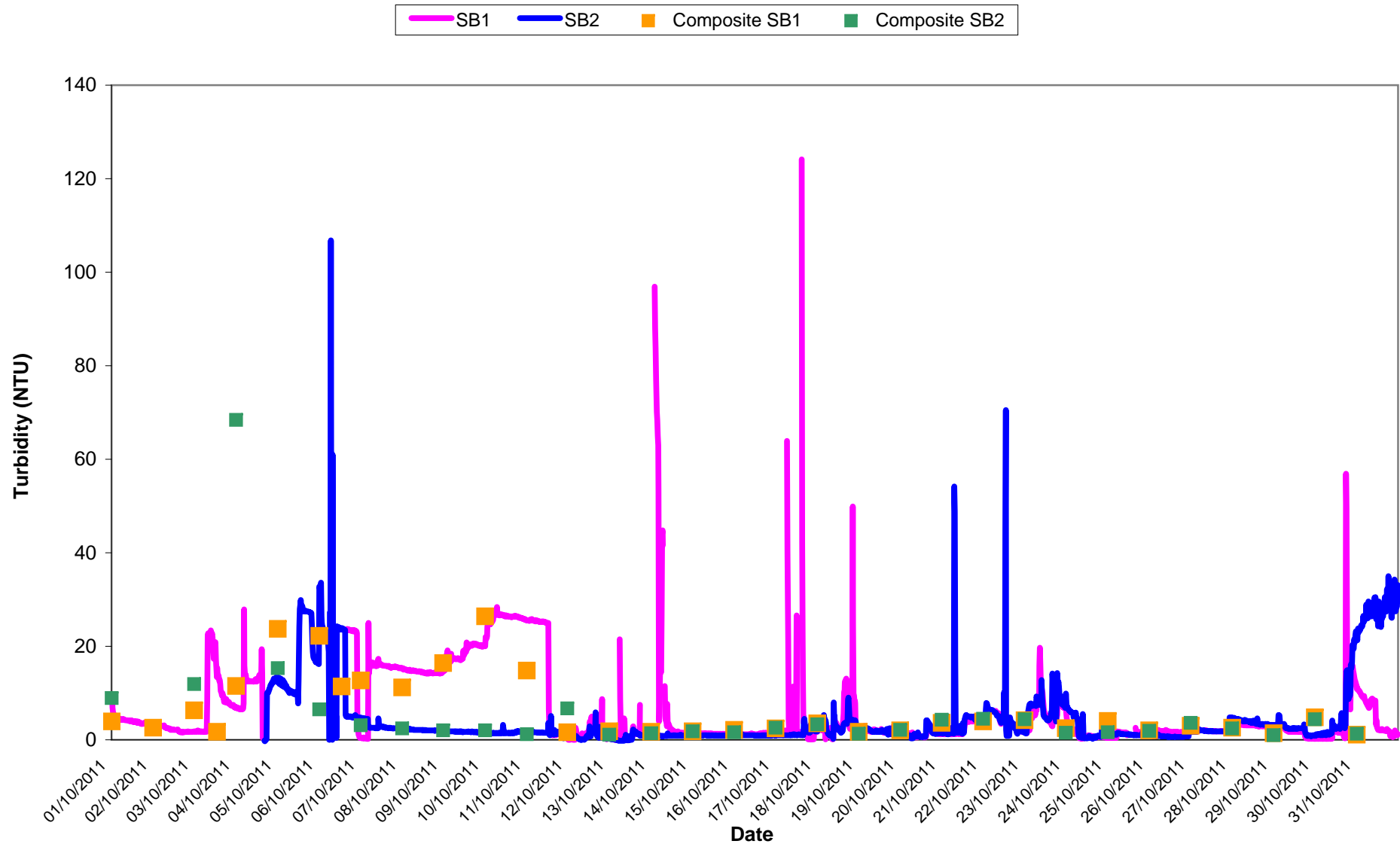
Conductivity - Surface Water Discharge October 2011



pH - Surface Water Discharge October 2011



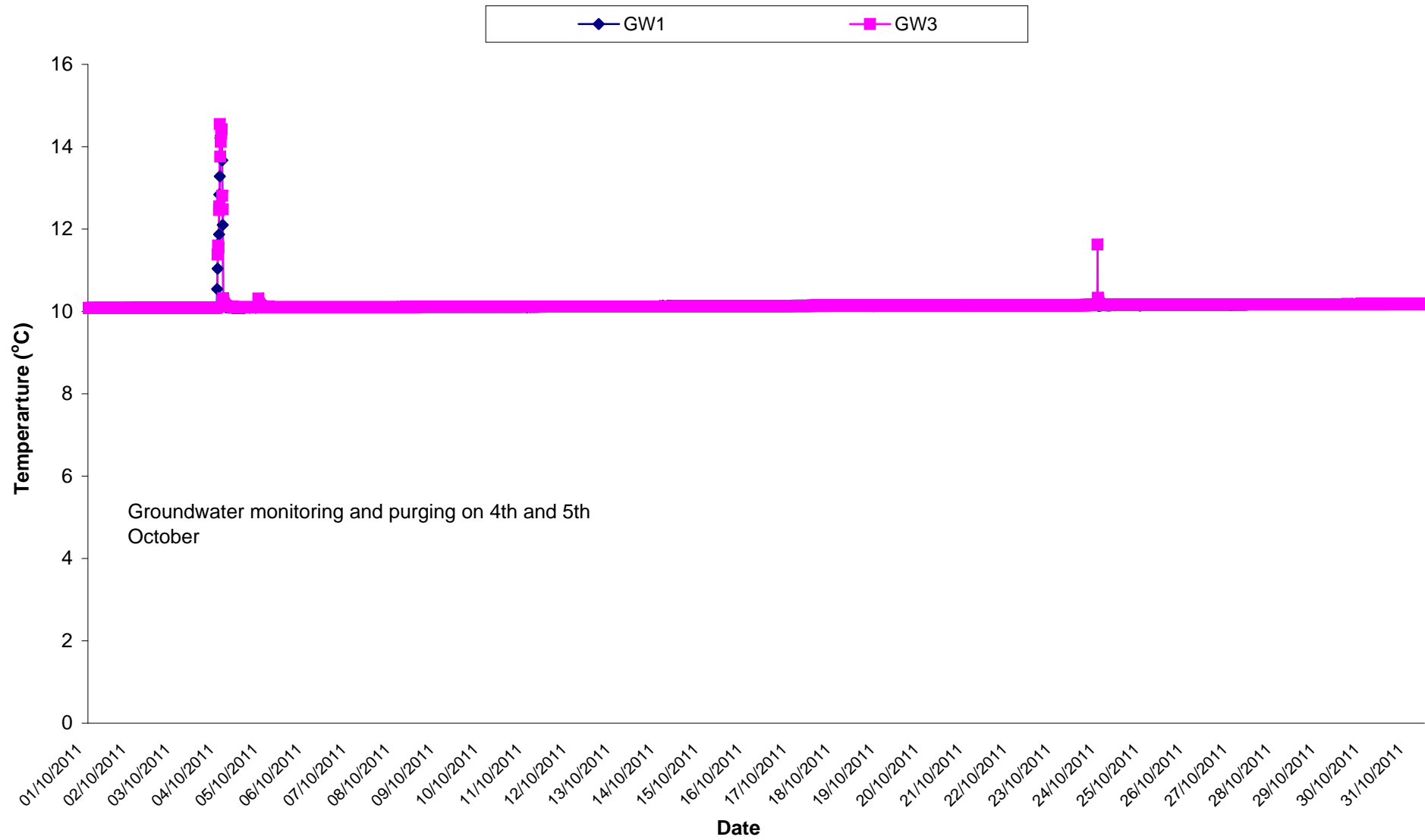
Turbidity- Surface Water Discharge October 2011



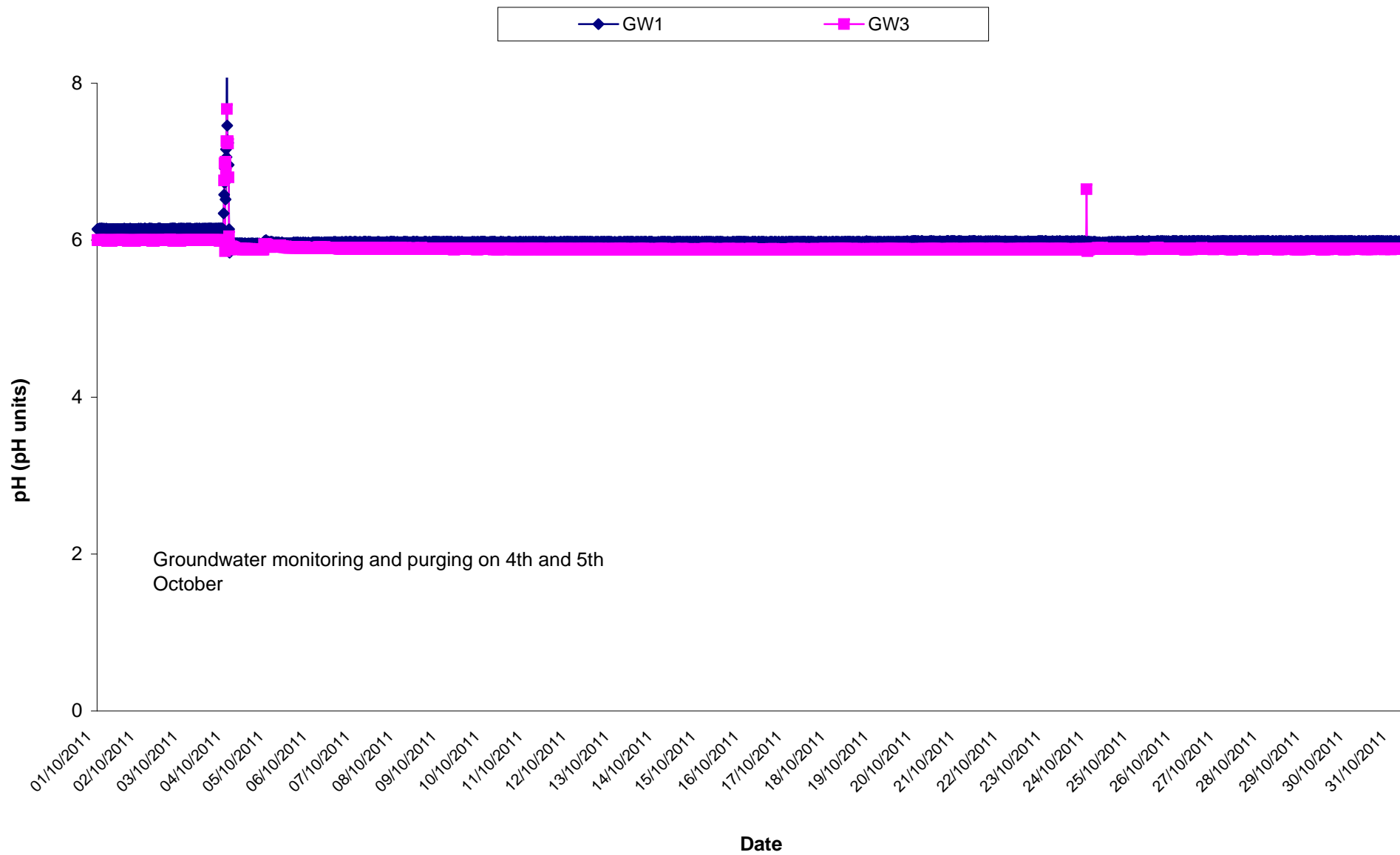
Dissolved Oxygen - Surface Water Discharge October 2011



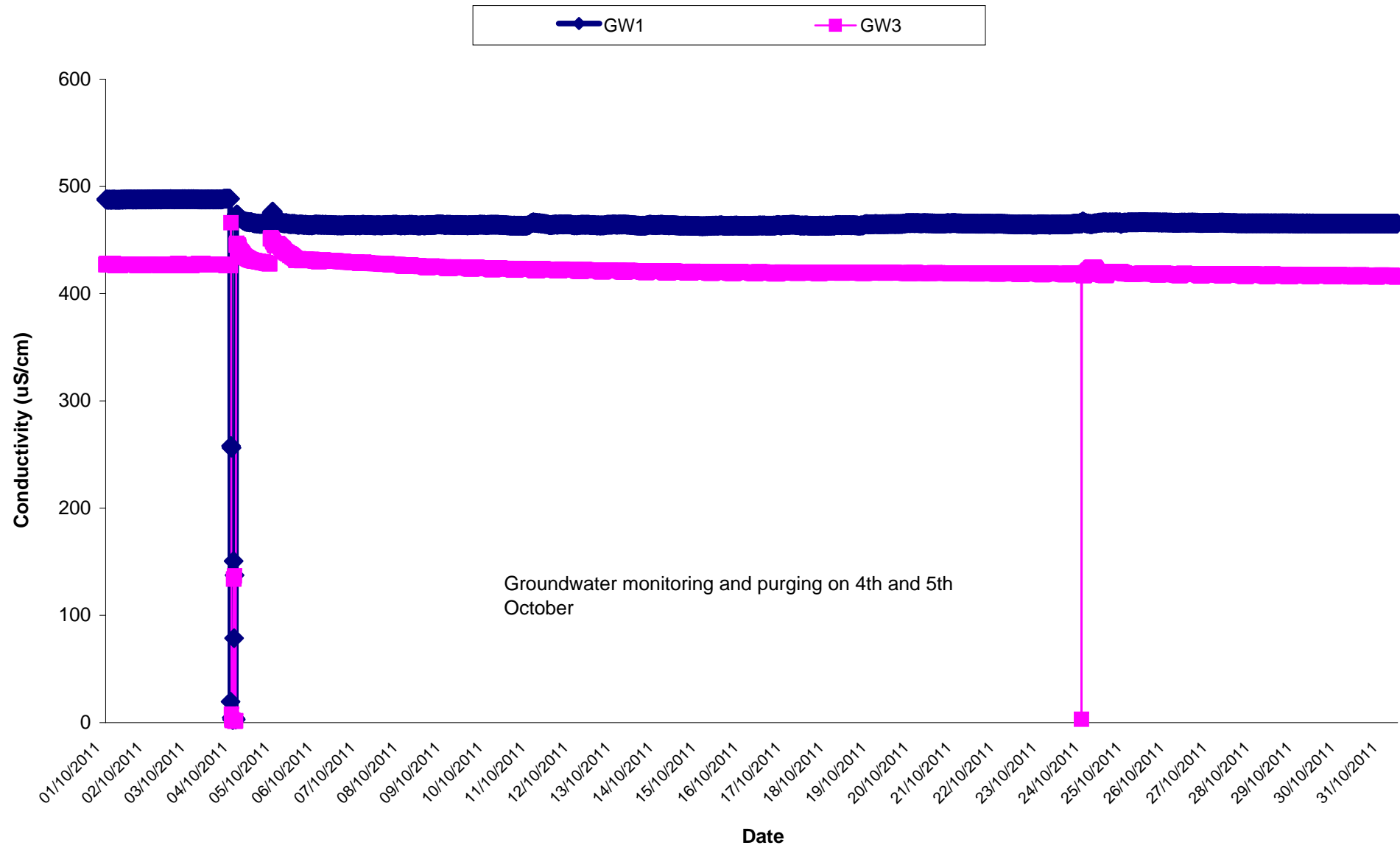
Temperature - Groundwaters October 2011



pH - Groundwaters October 2011



Conductivity - Groundwaters October 2011



Appendix 1

Appendix 1: Surface Water Monitoring Record Sheet- Onsite Monitoring						
	Date	Temp	DO	Cond.	Turbidity	pH
		oC	% Sat	µS/cm	NTU	
Grab samples						
DL 2	03/10/2011	13.1	7.5	248	8.4	6.0
DL 2	04/10/2011	12.8	3.8	283	10.3	7.0
DL 2	05/10/2011	13.4	57.1	233	10.4	6.2
DL 2	06/10/2011	12.2	68.0	197	5.4	6.5
DL 2	07/10/2011	11.9	58.6	204	5.6	6.7
DL 2	10/10/2011	13.1	62.2	203	11.4	6.1
DL 2	11/10/2011	13.6	69.4	168	38.0	6.4
DL 2	12/10/2011	13.2	57.7	186	16.0	6.5
DL 2	13/10/2011	14.0	46.9	208	4.0	6.3
DL 2	14/10/2011	13.7	36.4	217	5.8	6.4
DL 2	17/10/2011	11.5	67.9	146	12.1	7.1
DL 2	18/10/2011	11.1	68.3	148	9.8	6.4
DL 2	19/10/2011	8.2	67.0	180	10.2	6.6
DL 2	20/10/2011	9.3	53.2	233	7.1	6.1
DL 2	21/10/2011	12.5	60.2	164	18.2	6.5
DL 2	24/10/2011	12.1	73.1	247	7.2	6.1
DL 2	25/10/2011	9.8	40.8	214	5.1	6.1
DL 2	28/10/2011	9.5	41.2	192	9.8	6.3
Sruwaddaon Bay						
SBAY1	11/10/2011	13.4	90.2	OR	7.9	6.4
SBAY3	11/10/2011	13.3	86.7	1731	12.9	6.8
SBAY4	11/10/2011	13.5	87.6	326	19.9	6.7
SBAY6	11/10/2011	13.5	90.5	20	10.7	6.5
	Grey shaded areas denote parameters that were not analysed on-site.					
	= Indicative Only			OR = Over-range		

Appendix 2

1. MONITORING PERIOD

This summary report relates to October 2011 during which the following were undertaken:

- Monitoring during construction at Aughoose
- Bird monitoring of the Sruwaddacon Bay area and onshore pipeline area in general; and
- Non-avian faunal monitoring of areas other than Aughoose (general and pre-construction).

2. HABITATS/VEGETATION

During the site inspections in October, it was noted that considerable progress had been made in the removal of the vegetation layer to the peat storage areas. The transfer operation of the vegetation layer was observed to be working well.

The project ecologist indicated to site staff which areas of vegetation are suitable for transfer to particular peat storage areas.

3. BIRDS

3.1 Aughoose/Sruwaddacon Bay

Weekly low water and high water counts have continued in the Sruwaddacon Bay area as scheduled, to summarise:

- Numbers of wading birds increased (once again) during the month with birds on passage to wintering grounds
 - Ringed Plover and Dunlin numbers increased, especially from mid- October onwards
- Observations were made of species rarely recorded during this and recent years – most notably Little Egret and Bar-tailed Godwit. Both Black-tailed and Bar-tailed Godwits were recorded within Sruwaddacon Bay in October 2011. Both Godwit species are relatively infrequent visitors to the study area and it remains to be seen if these were isolated records of birds on passage.
- No avoidance or disturbance events were recorded from the vicinity of the works. This was particularly evident during the last visit in October when, at low tide on the 26th October, Ringed Plover and Dunlin were observed feeding on intertidal areas immediately west of the Aughoose compound – some within 200m of the works. It is notable that, on this occasion - in addition to the bird observers – work by a number of site operatives was being carried out on a perimeter walkway near this location. The birds continued to forage and were not disturbed
- Four Brent Geese were observed at the high water roost opposite Rossport Pier on the afternoon of 25th October 2011. This is a considerably earlier return date than was recorded

in 2010 (November 9th) but more than a week later than the earliest recorded date of return to the area in October 2009.

- None of these four Brent Geese were ringed birds
 - A continued effort will be made to record as many ringed individuals as possible during the winter 2011/12 to enhance the understanding of the usage of the bay area by this species.
- The Aughoose compound was visited, and will continue to be monitored throughout the winter of 2011/2012.
- Observations of non-avian fauna made by ornithologists during bird surveys are noted below at 4.3.

4. NON-AVIAN FAUNA

The next phase of faunal monitoring surveys commenced in October.

4.1 General monitoring, including pre-construction

Repeat otter (spraint and resting place) surveys of the Sruwaddacon Bay area, Leenamore River and Glengad commenced in October 2011. This repeat survey follows on the earlier surveys of these areas which were completed in July 2011.

Monitoring of badger and otter activity at Glengad has continued, with regular checks on burrows.

4.2 During construction - Aughoose

Repeat checks of the shorelines and hinterland adjacent to the works area at Aughoose have been conducted in October 2011.

- Otter activity remains as previously reported with otters continuing to utilise the shoreline areas at Aughoose and the Leenamore River.
- No active /breeding holts, potential holts or couches have been identified in the area adjacent to works at Aughoose.

Surveys for general fauna in the vicinity of the works at Aughoose have been conducted in conjunction with the otter surveys.

Site inspections have continued during October in relation to faunal mitigation measures.

The current phase of “during construction” faunal surveys in the wider Bay area and pre-construction surveys elsewhere will continue over the coming weeks.

4.3 Observation made during the bird surveys

- On October 26th an adult female Otter was observed feeding at leisure, at low water in the Leenamore River inlet, and in full sight of the Aughooose compound. (Figure 1)
- Also during the low water bird count on October 26th, eight Common Seals were observed hauled out on a sandbank near the entrance to North Rossport Bay.

Figure 1: Location of otter observed at Leenamore



5. SITE INSPECTIONS

Site inspections at Aughooose were undertaken by the project ecologist on 18th and 19th October.

The main purpose of these site inspections was to:

- Inspect the condition of surface vegetation still in situ, and to identify which areas of vegetation could be used in the different peat storage locations
- Inspect the peat storage areas, currently stored surface vegetation layer
- Monitor the ongoing removal of vegetation layer to the peat storage areas
- Check the erection of the palisade security fence, screening and wildlife proofing in relation to required avian and non-avian mitigation measures.

Additional site inspections, with regard to faunal mitigation measures in particular, were undertaken by other members of the project ecologist's team during October.

Appendix 3

Irish Archaeological Consultancy Ltd.

Corrib Onshore Pipeline
Monthly Archaeological Report
Aughoose Site

DoAHAG Licence number: 11E0214
DoAHAG Metal Detection Licence ref: 11R0090
Director: James Kyle

Month Ending: 31st October 2011

IAC Irish Archaeological
Consultancy

1.0 General Review of Works

1.1 Stage (i) Works

Works commenced Monday the 25th of July.

2.0 Staffing Levels

The following staff are a constant presence on site;

1 No Site Director –James Kyle, David Bayley.

All plant machinery provided by Roadbridge Ltd.

3.0 Areas Investigated

Construction works were carried out on several areas of the Aughoose site these were monitored under strict archaeological supervision. These works comprised:

- The construction of v-ditches and associated drainage lagoons/silt ponds, in advance of future access road continuation.
- Turves of peat were removed, using a specially designed turving bucket to ensure the safe transport and storage of the sensitive layer of bog. This activity took place in advance of the main site access road works.
- The bulk excavation of peat to facilitate the construction of the next phase of the main site access road.
- Auxiliary temporary drainage works.

In addition to the above; all construction works which had any impact on the peat and the underlying residual ground substrate were monitored and nothing of archaeological significance was revealed.

4.0 Projected Future Work and Staff

Monitoring of all groundworks on site will be ongoing for the duration of the project to ensure a constant archaeological presence on site. This will be conducted by two licenced archaeologists: James Kyle and David Bayley, on a week on week off rotational basis.

5.0 Reporting

A monthly report is produced on an ongoing month by month basis, with a final report due after the completion of works. Two separate meetings took place on the 19th and 27th of October with a representative acting on behalf of the Department of Communications, Energy and Natural Resources (DCENR) and the senior archaeologist from Mayo County Council respectively. The meetings were held to ensure that all archaeological conditions are being complied with to the satisfaction of the statutory authorities. A review of archaeological procedures on site and documentation took place. The extent archaeological monitoring to date was also discussed.

6.0 Location of Artefacts and Samples

To date no artefacts or samples have been retrieved from site.

7.0 Information any Unforeseen Difficulties

Excavation was suspended on Monday 24th October due to the 3-day mean rainfall limits having been exceeded, this recommenced Tuesday 25th October.

8.0 Health and Safety Issues

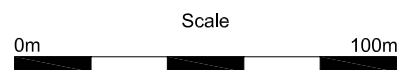
All staff have been inducted after receiving the requisite conflict management training and manual handling training.

9.0 Third Party Consultations



N/A

Summary

Nothing of archaeological significance has been uncovered as a result of works on site to date.



Legend

-  Areas archaeologically monitored
-  Ongoing archaeological monitoring

Access Road

Title: Plan of proposed development

Project: Archaeological Monitoring at Aughoose Townland, County Mayo

Client: Courtney Deery/ SEPIL

Scale: 1:2000 @ A3 Job No: J2632

Date: 09/11/11 Figure No: 1

Produced by: P Higgins

IAC Irish Archaeological
Consultancy