

1 Monitoring Data

1.1 Monitoring Equipment

Noise	Eight noise monitoring locations are currently being used – NSR1 & NSR2 (compliance monitoring points) and AN1, AN2, AN3, GN1, GN2 and RN1 (information purposes). The noise meters records in the 1/3 octave band.
Vibration	There are two vibration monitoring points being used- V2 and V3
Weather Station	The data used for this reporting period was taken from the Aughoose and Glengad construction site meteorological stations.
TSS	There are TSS meters (SB3 line 1 and SB3 line 2) on the each of discharges on the Siltbuster.
Sonde	The results are displayed graphically for dissolved oxygen, conductivity, pH, turbidity and temperature.
Discharge pipe flow	The results are displayed graphically.

1.2 Rainfall Data

Aughoose					
Date	Rainfall mm	Date	Rainfall mm	Date	Rainfall mm
01/06/2012	1.0	12/06/2012	9.4	23/06/2012	6.0
02/06/2012	4.8	13/06/2012	6.4	24/06/2012	0.0
03/06/2012	7.6	14/06/2012	7.2	25/06/2012	0.0
04/06/2012	0	15/06/2012	5.6	26/06/2012	2.6
05/06/2012	3.6	16/06/2012	3.2	27/06/2012	1.8
06/06/2012	0.6	17/06/2012	0.6	28/06/2012	15.8
07/06/2012	3.4	18/06/2012	5.0	29/06/2012	7.0
08/06/2012	10.2	19/06/2012	0.4	30/06/2012	13.4
09/06/2012	0.0	20/06/2012	3.2		
10/06/2012	0.0	21/06/2012	13.4		
11/06/2012	3.8	22/06/2012	2.0	Total 140.4mm	
Glengad					
Date	Rainfall mm	Date	Rainfall mm	Date	Rainfall mm
01/06/2012	0.8	12/06/2012	2.0	23/06/2012	3.4
02/06/2012	6.6	13/06/2012	0.6	24/06/2012	0.0
03/06/2012	5.4	14/06/2012	4.8	25/06/2012	0.0
04/06/2012	0.0	15/06/2012	5.0	26/06/2012	5.8
05/06/2012	4.6	16/06/2012	2.4	27/06/2012	0.6
06/06/2012	0.0	17/06/2012	0.2	28/06/2012	16.2
07/06/2012	24.8	18/06/2012	4.8	29/06/2012	5.4
08/06/2012	25.0	19/06/2012	0.0	30/06/2012	11.6
09/06/2012	0.0	20/06/2012	13.6		
10/06/2012	0.0	21/06/2012	14.2		
11/06/2012	0.0	22/06/2012	1.4	Total 159.2mm	

Corrib Gas Pipeline Environmental Report	Period Ending: 30 th June 2012
Compiled By: Carmel Carey, Bronagh O Reilly & Siobhán Sheridan	
Approved By: Aoife Reynolds & Sil Draaisma	
Ref: COR-01-SH-MCC-MHLY-ENV-006	

1.3 Summary

Environment	Comments
Vibration	<p>There were no vibration exceedances during the reporting period.</p> <p>Technical issues with the vibration meter at V2 caused a loss of data between 08/06/12 to 21/06/12. Technical assistance is currently being sought to determine the cause for loss of data during this period.</p>
Weather	<p>There was a total of 140.4mm of rainfall during the reporting period measured at the Aughoose weather station and a total of 159.2mm at the Glengad weather station, with a temperature range of 1.3°C to 19.5°C in Aughoose and 4.4°C to 18.8°C in Glengad.</p>
Noise	<p>The noise results were reviewed as per the noise monitoring protocol.</p> <ul style="list-style-type: none"> Elevated noise levels were recorded at NSR2, as follows: <ul style="list-style-type: none"> 03/06/12 at 10:00, 11:00, 12:00, 13:00 and 18:00. 04/06/12 at 11:00, 12:00 and 14:00 <p>The increased levels were considered to be as a result of the dewatering of the off shore pipeline.</p> <ul style="list-style-type: none"> There was a loss of data at GN2 on the morning and evening of the 2nd June due to a technical fault with the meter. Weather data from Glengad was used between 15:45 on 07/06/12 and 12:45 on 08/06/12 for the processing of the Aughoose noise meter data. Elevated noise readings at NSR1 on 15th at 09:00 and 10:00 were compared with noise readings from site control monitors, which confirmed that elevations were not generated from the Aughoose compound. Due to a technical issue with the noise meter at NSR2 for week ending 27/06/12, noise data could not be retrieved. Technical assistance was sought but the data could not be retrieved.
Surface Water - Aughoose	<p>There were no identified surface water exceedances during the reporting period. Surface water treatment ongoing.</p>
Surface Water - Glengad	<p>Surface water discharge was available for sample collection on 09/06/12. Conductivity result was 831µS/cm due to tidal influences at Glengad.</p>
Groundwater Monitoring	<p>Monitoring of groundwater undertaken during the reporting period was within the anticipated results range.</p> <p>GW3 data missing from 18th June. Sonde was removed to be sent for calibration and replaced with a new sonde, however there was a technical difficulty in retrieving the data from the replacement sonde.</p>

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2 Environmental Exceedances / Incidents / Complaints / Highlights

2.1 Complaints

Date & time of complaint	Nature of complaint	Actions taken as a result of the complaint
June 11 th 2012 9.16 am	Complaint about SEPIL Internship Programme from applicant	Written response issued to complainant to address the issues.
June 14 th 2012 2.30 pm	Complaint about SEPIL traffic being diverted on June 6 th on the Aughoose to Leanamore road.	Written response issued to address complaint – Traffic diverted by the Gardai on this date due to third party activity.

2.2 Exceedance

Date and Time	June
Location	Noise Exceedance at NSR2- Off Shore Pipeline Precommissioning Activity
Nature of Incident	<p>During Pre-commissioning of the Corrib offshore pipeline, instances of the noise level at NSR2 exceeding the limit of 65dB(a) LAeq were identified. The noise exceedances occurred when at the following times the 3rd and 4th June 2012 during the dewatering process.</p> <p>03/06/12 @ 10:00 65.2 dB(A) L_{Aeq} 03/06/12 @ 11:00 67.7 dB(A) L_{Aeq} 03/06/12 @ 12:00 65.0 dB(A) L_{Aeq} 03/06/12 @ 13:00 65.9 dB(A) L_{Aeq} 03/06/12 @ 18:00 65.3 dB(A) L_{Aeq}</p> <p>04/06/12 @ 11:00 66.3 dB(A) L_{Aeq} 04/06/12 @ 12:00 67.6 dB(A) L_{Aeq} 04/06/12 @ 14:00 65.8 dB(A) L_{Aeq}</p> <p>It is considered that the exceedances were due to the operations in progress at that time.</p> <p>From assessment of the results and the site activity it is considered that the elevation is attributed to operating the equipment at maximum capacity. In hindsight, it has been recognised that further mitigation would have been possible and should have been implemented. However, reducing the noise levels by slowing down the activity was not considered at the time.</p>

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Actions Taken	<p>The dewatering of the off shore pipeline was a one off activity and was completed on the 10th of June. Therefore corrective actions will be developed in consideration of future works for 2012/ 2013 (tunnelling works) on the Corrib Pipeline.</p> <ul style="list-style-type: none"> • Designate a noise testing phase at the start of tunnelling activities. The duration of this phase will depend on achieving conditions representative of loads/speeds/operations that will cover the full range of normal operating conditions. • Before operations proceed into “steady state” the status will be reviewed confirm that the operation is considered to be functioning in accordance with the noise limits. • Detailed guidance is to be prepared for project construction and environmental staff on actions to be taken in the event compliance limits are approached or breached. <p>The recommendations above will be incorporated into the EMP.</p>
Category	Environmental Exceedance
Status	In Progress

Date and Time	June				
Location	Exceedance for dust deposition at the dust monitoring location GD2				
Nature of Incident	<p>The two dust deposition samples which were sent to our external laboratory for testing in June for the period 14/05/12 to 15/06/12 were returned with the following results:</p> <table border="1"> <tr> <td>GD1</td><td>32 mg/m²/day</td></tr> <tr> <td>GD2</td><td>789 mg/m²/day</td></tr> </table> <p>As indicated above, GD2 is higher than the dust deposition limit of 350 mg/m²/day which returned a result of 789 mg/m²/day. This value is not representative of the normal dust levels recorded at this location. The sample was visually inspected prior to dispatch to the lab and GD2 was observed to be generally cloudy with some particles present. The dust level at GD1 was considerably lower.</p> <p>This dust pot is located close to site activities, traffic movement and in close proximity to the soil stockpiles onsite. It is also situated close to the fenceline which has a visual barrier attached which could prevent the movement of dust offsite and become captured in the pot.</p> <p>There was 107.7mm of rainfall recorded at the Glengad weather station during the period in question.</p>	GD1	32 mg/m ² /day	GD2	789 mg/m ² /day
GD1	32 mg/m ² /day				
GD2	789 mg/m ² /day				

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Actions Taken	<p>Dust deposition pots will continue to be visually inspected prior to dispatch to the external laboratory for analysis.</p> <p>Dust control measures i.e water bowsers etc. Will continue to be applied.</p> <p>The area outside of the site is continually monitored and to date there have not been any instances of nuisance dust recorded. Monitoring of road surfaces will continue.</p> <p>The dust pot will be relocated to a more suitable position closer to the nearest sensitive receptor which will be more representative of the impact of dust from site.</p>
Category	Environmental Exceedance
Status	Closed

2.3 Incidents

There were no incidents during the reporting period.

	Date	Cond.	Turbidity	DO	pH	TSS	Orthophos phate as PO ₄	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	%	pH units	mg/l	mg/l	ug/l	ug/l	mg/l	mg/l	mg/l
Composites - Glengad												
DL1	09/06/2012	831	1.7	74.2	7.2	6	<0.03	<100	<100	3.14	1.660	<10
Composites - Aughoose												
SB3	01/06/2012	450	0.9	76.0	7.8	2	<0.03	<100	<100	4.18	0.231	21
SB3	02/06/2012	461	0.9	76.6	7.8	2	<0.03	<100	<100	4.73	0.230	37
SB3	03/06/2012	477	1.0	71.7	7.7	2	<0.03	<100	<100	5.27	0.414	25
SB3	04/06/2012	510	1.1	77.5	7.8	2	<0.03	<100	<100	9.98	0.667	39
SB3	05/06/2012	536	0.9	73.4	7.8	5	<0.03	<100	<100	4.52	0.656	32
SB3	06/06/2012	533	1.8	79.8	7.9	2	<0.03	<100	<100	2.75	0.852	<10
SB3	07/06/2012	519	1.8	78.6	8.1	3	<0.03	<100	<100	1.66	0.676	<10
SB3	08/06/2012	415	1.3	73.9	7.9	2	<0.03	<100	<100	1.44	0.564	11
SB3	09/06/2012	449	0.9	75.6	8.0	2	<0.03	<100	<100	1.41	0.681	11
SB3	10/06/2012	465	0.7	74.8	8.1	4	<0.03	<100	<100	1.20	0.687	21
SB3	11/06/2012	485	0.7	74.6	7.5	3	<0.03	<100	<100	4.17	0.674	21
SB3	12/06/2012	434	0.7	75.4	7.6	3	<0.03	<100	<100	4.26	0.651	14
SB3	13/06/2012	444	1.1	68.9	7.6	2	<0.03	<100	<100	4.15	0.464	<10
SB3	14/06/2012	420	1.2	74.1	7.4	2	<0.03	186	<100	4.15	0.367	<10
SB3	15/06/2012	416	1.7	80.7	7.6	2	<0.03	273	<100	4.84	0.363	<10
SB3	16/06/2012	415	2.3	79.8	7.6	2	<0.03	<100	<100	5.60	0.422	<10
SB3	17/06/2012	426	2.0	79.4	7.4	3	<0.03	<100	<100	5.13	2.090	14
SB3	18/06/2012	445	1.0	74.5	7.2	2	<0.03	<100	<100	4.77	0.368	<10
SB3	19/06/2012	448	1.1	76.1	7.1	3	<0.03	<100	<100	4.79	0.366	30
SB3	20/06/2012	450	1.0	80.5	7.4	3	<0.03	<100	<100	5.41	0.531	<10
SB3	21/06/2012	434	1.3	81.2	7.3	3	<0.03	<100	<100	5.34	0.441	<10
SB3	22/06/2012	424	0.9	79.8	5.9	2	<0.03	<100	<100	4.95	0.276	<10
SB3	23/06/2012	434	1.1	78.6	7.1	2	<0.03	<100	<100	4.83	0.254	<10
SB3	24/06/2012	432	1.3	80.3	7.0	2	<0.03	<100	<100	4.85	0.249	<10
SB3	25/06/2012	441	1.4	78.5	7.5	2	<0.03	281	<100	4.59	0.230	<10
SB3	26/06/2012	442	1.3	80.5	7.4	2	<0.03	156	<100	5.04	0.301	<10
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.

	Date	Cond.	Turbidity	DO	pH	TSS	Orthophos phate 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	%	pH units	mg/l	mg/l	ug/l	ug/l	mg/l	mg/l	mg/l
SB3	27/06/2012	432	1.0	69.8	7.8	5	<0.03	<100	<100	4.22	0.420	16
SB3	28/06/2012	403	1.8	70.8	7.7	5	<0.03	<100	<100	4.57	0.254	27
SB3	29/06/2012	419	3.4	79.3	7.2	2	<0.03	194	<100	5.77	0.398	30
SB3	30/06/2012	366	4.5	82.7	7.1	2	<0.03	202	<100	6.37	0.503	34
Grab Samples DL2												
DL2	07/06/2012	502	6.2	78.3	8.0	3	<0.03	<100	<100	6.17	0.878	<10
DL2	08/06/2012	361	0.7	73.6	7.8	2	<0.03	<100	<100	1.24	0.510	13
DL2	11/06/2012	319	2.2	75.4	7.6	3	<0.03	<100	<100	6.29	0.216	319
DL2	13/06/2012	404	1.6	74.3	7.3	2	0.14	<100	<100	4.38	2.780	<10
DL2	21/06/2012	419	1.0	78.6	6.2	2	<0.03	<100	<100	5.19	0.420	<10
DL2	27/06/2012	416	0.8	75.3	7.4	2	<0.03	162	<100	4.47	0.315	19
DL2	28/06/2012	337	1.3	70.7	7.4	2	<0.03	203	<100	5.43	0.402	17
Sruwaddaon Bay												
SBay1	14/06/2012	50000	0.7	73.1	8.4	3	0.01	<100	<100	2.25	0.081	40
SBay3	14/06/2012	38400	1.3	72.1	8.3	16	0.01	<100	<100	4.27	0.110	40
SBay4	14/06/2012	27000	1.8	73.9	8.3	<2	0.00	<100	<100	6.57	0.149	60
SBay6	14/06/2012	4910	0.8	72.9	8.2	4	0.01	<100	<100	1.95	0.067	50
Baseline Monitoring - Pipeline Wayleave												
SW 11	06/06/2012	214	9.3	52.8	6.6	<2	0.23	<100	<100	20.80	0.161	48
SW 12	06/06/2012	217	217.0	58.5	6.4	<2	0.26	<100	<100	20.70	0.114	41
SW 08	07/06/2012	266	4.5	70.9	7.7	2	0.08	<100	<100	11.20	0.420	<10
SW 09	07/06/2012	169	74.0	71.3	7.2	94	0.42	<100	122	24.70	0.183	59
SW 10	07/06/2012	292	15.4	72.9	7.1	4	0.28	<100	<100	25.50	<0.1	56
SW 09	14/06/2012	225	13.9	74.8	6.4	14	0.06	<100	<100	45.10	0.198	177
SW 10	14/06/2012	231	13.2	74.3	6.6	<2	0.11	170	<100	25.60	0.065	88
SW 11	14/06/2012	185	1.2	74.8	5.9	<2	0.06	197	<100	27.10	0.028	74
SW 12	14/06/2012	278	1.7	74.9	6.8	2	<0.03	<100	<100	15.30	0.236	53
SW 09	18/06/2012	143	4.1	73.3	6.7	<2	0.10	138	<100	29.50	0.035	114
SW 11	18/06/2012	175	1.3	79.9	6.3	<2	0.07	<100	<100	25.60	0.021	83
SW 12	18/06/2012	178	1.6	78.3	5.7	<2	0.08	<100	<100	26.20	0.022	85
SW 09	21/06/2012	201	101.0	78.6	5.4	70	<0.03	<100	<100	45.20	0.273	271
SW 10	21/06/2012	240	10.5	80.3	6.2	7	<0.03	<100	<100	32.70	0.270	108
SW 11	28/06/2012	131	1.9	82.1	5.8	<2	<0.03	204	<100	33.30	0.103	131
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	Suspended Solids	Turbidity	Orthophosphate as PO4 -P	Ammonia as NH3-N	Total Phosphorus as P	Nitrate as NO ₃	Nitrite as NO ₂	Phosphate as PO4	COD	Copper
		% Sat	°C	uS/cm	pH Units	mg/l	mg/l	mg/l	N.T.U	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l
GW1	07/06/2012	41	11.3	422	6.6	236	<1	72	102	0.931	0.29	0.99	<0.44	<0.017	2.86	32	14
GW2	07/06/2012	42	11.0	455	6.6	255	<1	3090	875	0.200	2.42	1.26	<0.44	<0.017	0.61	30	14
GW3	07/06/2012	50	10.9	416	6.5	233	<1	115	192	0.209	3.00	0.24	<0.44	<0.017	0.64	24	1
GW4	07/06/2012	35	11.1	413	6.6	231	<1	29	115	0.258	0.35	0.30	<0.44	<0.017	0.79	10	3

Location	Date	Arsenic, total	Chromium, total	Lead, total	Cadmium, total	Tin, total	Iron, total	Mercury	TOC	Total Hardness	Zinc	Extractable HC/ DRO (C8-C40) total and dissolved	PRO (C5 - C12) total and dissolved	Total Phosphorus as P	Manganese	Water Level	
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	ug/l	ug/l	ug/l	mg/l	ug/l	m	
GW1	07/06/2012	10	3.0	5.0	1.0	<0.5	24080	<0.05	6.46	150	7	<100	<100	0.99	3264	4.19	
GW2	07/06/2012	3	11.0	56.0	<0.5	<0.5	40970	<0.05	9.30	159	32	<100	<100	1.26	751	3.14	
GW3	07/06/2012	6	4.0	3.0	<0.5	<0.5	72000	2.37	5.40	66	7	<100	120	0.24	309	2.37	
GW4	07/06/2012	2	1.0	<0.5	<0.5	<0.5	22900	<0.05	4.76	130	<5	<100	<100	0.30	15	3.77	

Grey shaded areas denote parameters that cannot or were not analysed on-site or at the lab.

Graphs provided for GW1 - GW4: Temperature, Conductivity, and pH.

Dust Monitoring Record Sheet							
	Date Positioned	Date Removed	Ref. Number	Date Dispatched	Date Returned	Weight (mg/m ² /day)	Comment
Target (Consent) Limit:			350 mg m ² d ⁻¹ on as a 30 day average				
Dust Deposition - Aughooose							
AD1	14/05/2012	15/06/2012	380662	15/06/2012	18/06/2012	335	
AD2	14/05/2012	15/06/2012	380663	15/06/2012	18/06/2012	40	
AD3	14/05/2012	15/06/2012	380664	15/06/2012	18/06/2012	35	
AD4	14/05/2012	15/06/2012	380665	15/06/2012	18/06/2012	88	
Dust Deposition - Glengad							
GD1	14/05/2012	15/06/2012	380666	15/06/2012	18/06/2012	32	
GD2	14/05/2012	15/06/2012	380667	15/06/2012	18/06/2012	789	Result greater than limit of
NDP = No Determination Possible							
Monitoring Results will be presented monthly							

Vibration Monitoring Record Sheet

Minimum Criterion 8mm/s					
Date	Location	PPV max (mm/s)	Location*	PPV max (mm/s)	Comment
01/06/2012	V2	0.40	V3	0.40	
02/06/2012	V2	0.88	V3	0.40	
04/06/2012	V2	0.32	V3	0.40	
05/06/2012	V2	0.72	V3	0.40	
06/06/2012	V2	2.57	V3	0.40	
07/06/2012	V2	3.61	V3	0.48	
08/06/2012	V2	*	V3	0.40	Technical issues with the vibration meter at V2 caused a loss of data between 08/06/12 to 21/06/12. Technical assistance is currently being sought.
09/06/2012	V2	*	V3	0.96	
11/06/2012	V2	*	V3	0.40	
12/06/2012	V2	*	V3	0.40	
13/06/2012	V2	*	V3	0.96	
14/06/2012	V2	*	V3	0.40	
15/06/2012	V2	*	V3	0.40	
16/06/2012	V2	*	V3	0.40	
18/06/2012	V2	*	V3	0.40	
19/06/2012	V2	*	V3	0.40	
20/06/2012	V2	*	V3	0.40	
21/06/2012	V2	*	V3	0.40	
22/06/2012	V2	0.48	V3	0.40	
23/06/2012	V2	0.80	V3	0.40	
24/06/2012	V2	0.24	V3	0.40	
25/06/2012	V2	0.56	V3	0.40	
26/06/2012	V2	0.96	V3	0.40	
27/06/2012	V2	4.82	V3	0.40	
28/06/2012	V2	0.96	V3	0.40	
29/06/2012	V2	1.21	V3	0.40	
30/06/2012	V2	0.40	V3	0.40	
*fault with monitor, no data recorded					

Day Time Noise Monitoring / Max Hourly or above 60dB L_{aeq} 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			
NSR1	11.9	18.8	01/06/2012 09:00	01:00:00	5.4	29.8	51.7	72.5	35.0	
NSR2			01/06/2012 18:00	01:00:00	0.9	57.3	61.5	85.7	48.8	
NSR1	11.9	16.1	02/06/2012 13:00	01:00:00	5.6	22.0	62.7	83.0	35.9	
NSR2			02/06/2012 09:00	01:00:00	5.1	25.0	62.9	75.6	52.0	
			02/06/2012 10:00	01:00:00	5.1	25.5	63.1	77.1	53.5	
			02/06/2012 11:00	01:00:00	5.0	20.8	63.1	76.2	53.0	
			02/06/2012 12:00	01:00:00	5.0	105.5	64.2	77.1	51.7	
			02/06/2012 13:00	01:00:00	5.6	22.0	64.2	76.7	53.7	
			02/06/2012 14:00	01:00:00	5.4	19.8	61.1	73.6	46.8	
			02/06/2012 15:00	01:00:00	5.8	15.3	63.7	74.5	52.9	
			02/06/2012 16:00	01:00:00	5.1	100.8	63.8	74.9	47.1	
			02/06/2012 17:00	01:00:00	4.7	11.8	62.7	73.5	47.9	
NSR1	9.7	13.6	03/06/2012 15:00	01:00:00	2.3	146.8	54.0	87.6	32.2	
NSR2			03/06/2012 10:00	01:00:00	2.4	40.3	65.2	80.1	51.4	An analysis of all available noise monitoring data for the period has been carried out and the exceedence notification will follow.
			03/06/2012 11:00	01:00:00	3.0	14.0	67.7	75.9	56.1	An analysis of all available noise monitoring data for the period has been carried out and the exceedence notification will follow.
			03/06/2012 12:00	01:00:00	2.8	31.8	65.0	78.1	50.2	An analysis of all available noise monitoring data for the period has been carried out and the exceedence notification will follow.
			03/06/2012 13:00	01:00:00	3.2	18.5	65.9	82.4	53.1	An analysis of all available noise monitoring data for the period has been carried out and the exceedence notification will follow.
			03/06/2012 14:00	01:00:00	2.9	38.8	63.2	76.5	51.3	
			03/06/2012 15:00	01:00:00	2.3	146.8	63.4	80.7	50.8	
			03/06/2012 16:00	01:00:00	3.0	19.3	62.2	75.4	46.5	
			03/06/2012 17:00	01:00:00	3.6	190.5	64.1	76.9	52.3	
										An analysis of all available noise monitoring data for the period has been carried out and the exceedence notification will follow.
	03/06/2012 18:00	01:00:00	2.8	3.8	65.3	78.3	53.8			
	03/06/2012 19:00	01:00:00	2.6	181.8	64.1	84.8	34.9			

* Wind dominates noise data with wind speeds in excess of 7 m/s

**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

NSR1	
NSR2	

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			
NSR1	8.3	15.5								
			04/06/2012 12:00	01:00:00	3.9	83.3	60.9	77.0	35.0	
			04/06/2012 19:00	01:00:00	0.5	158.5	48.5	80.0	35.4	
04/06/2012 09:00			01:00:00	4.1	84.3	60.6	71.9	42.2		
04/06/2012 10:00			01:00:00	4.6	68.8	64.3	74.5	40.9		
04/06/2012 11:00			01:00:00	4.8	73.0	66.3	79.8	51.8	An analysis of all available noise monitoring data for the period has been carried out and the exceedence notification will follow.	
04/06/2012 12:00			01:00:00	3.9	83.3	67.6	76.8	51.9	An analysis of all available noise monitoring data for the period has been carried out and the exceedence notification will follow.	
04/06/2012 13:00			01:00:00	3.3	82.8	64.9	77.5	47.4		
04/06/2012 14:00			01:00:00	2.8	76.3	65.8	75.1	53.8	An analysis of all available noise monitoring data for the period has been carried out and the exceedence notification will follow.	
04/06/2012 15:00			01:00:00	2.5	85.8	63.5	72.4	53.3		
04/06/2012 16:00			01:00:00	1.5	73.5	62.8	74.3	52.0		
04/06/2012 17:00			01:00:00	1.1	136.0	62.4	75.2	49.6		
04/06/2012 18:00			01:00:00	1.3	237.0	61.7	73.8	52.4		
NSR1			8.9	14.2	05/06/2012 18:00	01:00:00	2.2	334.5	59.5	77.9
	05/06/2012 19:00	01:00:00			1.2	291.0	49.1	70.8	30.9	
NSR2	05/06/2012 08:00	01:00:00			1.2	232.3	53.9	76.7	39.9	
	05/06/2012 19:00	01:00:00			1.2	291.0	48.8	73.3	31.9	
NSR1	10.7	16.5	06/06/2012 15:00	01:00:00	4.7	193.0	54.9	75.9	31.9	
			06/06/2012 19:00	01:00:00	3.9	188.3	46.6	71.4	31.9	
NSR2			06/06/2012 06:00	01:00:00	2.0	194.8	57.7	83.0	31.0	
			06/06/2012 19:00	01:00:00	3.9	188.3	50.3	77.0	33.2	
NSR1			07/06/2012 16:00	01:00:00	4.4	341.3	57.9	73.3	45.6	
NSR2			07/06/2012 12:00	01:00:00	4.9	16.8	59.8	80.1	43.7	
NSR1			08/06/2012 08:00	01:00:00	8.3	260.5	58.4	74.6	48.1	
NSR2			08/06/2012 07:00	01:00:00	8.6	268.0	61.9	79.9	49.7	
			08/06/2012 08:00	01:00:00	8.3	260.5	62.6	80.3	50.9	
			08/06/2012 09:00	01:00:00	8.2	258.0	61.4	80.2	51.5	
NSR1			09/06/2012 13:00	01:00:00	3.6	308.0	59.1	75.1	30.8	
NSR2			09/06/2012 09:00	01:00:00	4.8	244.5	58.2	83.1	46.3	
NSR1			10/06/2012 19:00	01:00:00	2.2	293.0	53.6	82.4	23.6	
NSR2			10/06/2012 18:00	01:00:00	2.3	236.5	53.7	88.7	31.0	
NSR1			11/06/2012 11:00	01:00:00	2.0	99.8	60.6	86.3	32.6	
NSR2			11/06/2012 08:00	01:00:00	1.6	104.8	58.2	81.7	29.7	
NSR1			12/06/2012 11:00	01:00:00	2.9	345.3	58.7	90.3	37.8	
NSR2			12/06/2012 17:00	01:00:00	4.4	316.0	54.8	78.4	35.6	
* Wind dominates noise data with wind speeds in excess of 7 m/s										
**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										
NSR1										
NSR2										

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			
NSR1			13/06/2012 07:00	01:00:00	1.5	346.5	53.3	72.7	35.3	
NSR2			13/06/2012 16:00	01:00:00	3.9	179.0	54.5	76.7	37.9	
NSR1	9.8	14.5	14/06/2012 17:00	01:00:00	2.7	50.0	55.0	71.6	43.5	
NSR2			14/06/2012 14:00	01:00:00	5.0	74.5	54.8	78.2	37.0	
NSR1	10.5	13.4	15/06/2012 07:00	01:00:00	8.0	36.8	67.4	87.4	45.3	Wind dominates noise results
			15/06/2012 08:00	01:00:00	7.5	37.5	67.7	86.2	48.1	Wind dominates noise results
			15/06/2012 09:00	01:00:00	5.5	40.8	67.9	87.2	46.3	Control monitors confirm that noise is not generated onsite
			15/06/2012 10:00	01:00:00	6.2	44.3	66.9	85.4	45.2	Control monitors confirm that noise is not generated onsite
			15/06/2012 11:00	01:00:00	8.1	46.0	68.0	87.5	47.8	Wind dominates noise results
			15/06/2012 12:00	01:00:00	10.6	36.3	67.1	87.0	48.0	Wind dominates noise results
			15/06/2012 13:00	01:00:00	7.2	29.7	64.0	84.7	45.0	
			15/06/2012 14:00	01:00:00	6.9	25.8	63.1	83.1	42.9	
			15/06/2012 15:00	01:00:00	8.3	42.5	61.8	81.7	42.8	
			15/06/2012 18:00	01:00:00	7.5	36.0	61.6	83.2	40.5	
NSR2			15/06/2012 09:00	01:00:00	10.0	31.3	60.0	78.8	46.0	
			15/06/2012 10:00	01:00:00	10.9	29.0	63.0	81.8	45.6	
			15/06/2012 11:00	01:00:00	10.8	28.3	62.5	81.5	45.9	
			15/06/2012 12:00	01:00:00	10.7	26.8	63.7	82.4	46.5	
			15/06/2012 13:00	01:00:00	9.4	24.3	60.9	79.2	47.5	
			15/06/2012 14:00	01:00:00	9.1	21.3	60.0	78.2	45.3	
			15/06/2012 15:00	01:00:00	8.8	22.3	60.4	83.4	45.4	
			15/06/2012 16:00	01:00:00	8.7	18.3	60.1	82.0	44.2	
NSR1	9.0	12.2	16/06/2012 11:00	01:00:00	5.0	336.8	53.7	81.2	36.2	
NSR2			16/06/2012 07:00	01:00:00	5.1	338.8	58.8	77.2	37.4	
NSR1	6.6	14.6	18/06/2012 12:00	01:00:00	1.8	150.3	53.9	72.8	36.8	
NSR2			18/06/2012 07:00	01:00:00	2.3	87.0	54.6	82.6	24.6	
NSR1	6.8	17.2	19/06/2012 09:00	01:00:00	1.7	229.5	58.8	80.7	33.3	
NSR2			19/06/2012 07:00	01:00:00	2.1	182.3	55.4	82.1	23.8	
NSR1	10.4	18.5	20/06/2012 18:00	01:00:00	1.6	188.8	56.2	76.4	31.0	
NSR2			20/06/2012 17:00	01:00:00	1.3	157.0	56.2	78.3	29.4	
NSR1	11.1	12.6	21/06/2012 14:00	01:00:00	4.0	61.8	54.0	74.0	39.0	
	11.0	15.6	22/06/2012 17:00	01:00:00	6.2	266.8	60.0	80.5	38.3	
	10.7	15.5	23/06/2012 11:00	01:00:00	4.5	210.8	57.2	71.8	36.1	
	11.7	19.5	25/06/2012 07:00	01:00:00	0.3	136.3	52.9	73.2	32.2	
	13.0	16.2	26/06/2012 12:00	01:00:00	7.3	176.5	56.7	86.8	38.7	
	14.5	16.7	27/06/2012 13:00	01:00:00	3.1	190.0	54.3	88.9	35.2	
NSR2	(Note: Noise data currently unavailable from 21 - 27 June. Technical assistance was sought but the data could not be retrieved for this reporting)									
NSR1	12.2	17.4	28/06/2012 17:00	01:00:00	4.6	194.5	53.7	67.7	37.9	
	11.3	16.0	29/06/2012 11:00	01:00:00	5.7	227.0	53.9	72.7	35.9	
NSR2			29/06/2012 11:00	01:00:00	5.3	201.5	63.3	83.4	36.9	
NSR1	10.1	13.9	30/06/2012 17:00	01:00:00	5.2	286.3	63.7	91.9	37.1	
NSR2			30/06/2012 07:00	01:00:00	6.2	252.8	55.3	78.0	45.0	
* Wind dominates noise data with wind speeds in excess of 7 m/s										
**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										
NSR1										
NSR2										

Day Time Noise Monitoring / Max Hourly or above 60dB L _{aeq} Record Sheet											
Determinant Results											
Location	Air Temp. (Min)	Air Temp. (Max)	Start Date and Time	Duration	Wind		Results dB				
					Speed (m/s)*	Direction (Degrees)	L _{Aeq}	L _{Amax}	L _{Amin}		
Action Limit							60.0				
Target Limit							65.0				
AN1	11.9	18.8	01/06/2012 07:00	01:00:00	5.7	29.0	62.8	86.2	43.9		
			01/06/2012 08:00	01:00:00	5.7	30.8	62.9	87.8	46.0		
			01/06/2012 09:00	01:00:00	5.4	29.8	63.7	86.9	45.2		
			01/06/2012 11:00	01:00:00	6.5	24.8	63.6	85.8	44.0		
AN2			01/06/2012 08:00	01:00:00	5.7	30.8	45.2	66.2	32.4		
AN3			01/06/2012 07:00	01:00:00	5.7	29.0	50.0	73.4	23.6		
GN1			01/06/2012 14:00	01:00:00	1.7	105.3	68.4	92.0	37.8		
GN2			01/06/2012 08:00	01:00:00	5.7	30.8	69.6	81.9	59.2		
			01/06/2012 09:00	01:00:00	5.4	29.8	61.9	74.8	58.8		
			01/06/2012 10:00	01:00:00	6.0	26.0	61.9	77.4	59.1		
			01/06/2012 11:00	01:00:00	6.5	24.8	62.0	72.8	58.7		
			01/06/2012 12:00	01:00:00	6.5	22.0	65.1	82.1	59.8		
			01/06/2012 13:00	01:00:00	5.6	25.8	68.2	93.0	60.1		
			01/06/2012 14:00	01:00:00	5.2	23.8	62.5	73.0	57.6		
			01/06/2012 15:00	01:00:00	5.0	25.5	63.7	79.1	58.4		
			01/06/2012 16:00	01:00:00	3.9	32.3	69.5	81.7	60.0		
			01/06/2012 17:00	01:00:00	1.2	96.0	72.1	78.7	65.6		
			01/06/2012 18:00	01:00:00	0.9	57.3	71.6	84.0	65.5		
			01/06/2012 19:00	01:00:00	2.5	57.5	68.7	78.0	48.1		
RN1			01/06/2012 14:00	01:00:00	5.2	23.8	57.1	82.0	27.8		
AN1	11.9	16.1	02/06/2012 11:00	01:00:00	5.0	20.8	48.2	68.8	32.0		
AN2			02/06/2012 07:00	01:00:00	5.2	39.3	45.8	74.6	28.6		
AN3			02/06/2012 15:00	01:00:00	5.8	15.3	47.4	71.7	29.3		
GN1			02/06/2012 11:00	01:00:00	6.5	24.8	56.9	70.7	46.5		
GN2			02/06/2012 11:00	01:00:00	5.0	20.8	76.7	85.5	68.4		
			02/06/2012 12:00	01:00:00	5.0	105.5	75.9	84.8	67.1		
			02/06/2012 13:00	01:00:00	5.6	22.0	76.2	85.7	67.8		
			02/06/2012 14:00	01:00:00	5.4	19.8	70.2	84.7	60.5		
			02/06/2012 15:00	01:00:00	5.8	15.3	75.4	82.9	65.1		
			02/06/2012 16:00	01:00:00	5.1	100.8	76.3	81.6	69.5		
RN1			02/06/2012 09:00	01:00:00	5.1	25.0	49.2	77.8	29.4		
AN1			9.7	13.6	03/06/2012 14:00	01:00:00	2.9	38.8	52.2	74.6	32.8
AN2	03/06/2012 10:00	01:00:00			2.4	40.3	47.7	73.9	32.0		
AN3	03/06/2012 15:00	01:00:00			2.3	146.8	48.4	63.2	29.8		
GN1	03/06/2012 13:00	01:00:00			5.6	22.0	56.2	75.1	45.6		
GN2	03/06/2012 14:00	01:00:00			2.9	38.8	73.0	81.6	64.2		
	03/06/2012 15:00	01:00:00			2.3	146.8	72.5	81.6	64.5		
	03/06/2012 16:00	01:00:00			3.0	19.3	71.6	86.2	59.1		
	03/06/2012 17:00	01:00:00			3.6	190.5	72.7	80.2	66.0		
	03/06/2012 18:00	01:00:00			2.8	3.8	76.7	85.3	67.0		
	03/06/2012 19:00	01:00:00			2.6	181.8	75.4	85.5	47.9		
RN1	03/06/2012 18:00	01:00:00			2.8	3.8	53.9	79.3	34.1		
AN1	8.3	15.5			04/06/2012 08:00	01:00:00	4.1	69.0	39.0	69.3	32.2
AN2			04/06/2012 19:00	01:00:00	0.5	158.5	39.1	52.0	30.0		
			04/06/2012 12:00	01:00:00	3.9	83.3	41.9	60.6	25.9		
AN3			04/06/2012 19:00	01:00:00	0.5	158.5	39.3	60.8	27.8		
			04/06/2012 18:00	01:00:00	1.3	237.0	46.7	68.8	25.1		
GN1			04/06/2012 19:00	01:00:00	0.5	158.5	44.8	62.7	24.0		
			04/06/2012 16:00	01:00:00	3.0	19.3	58.6	87.2	42.4		
GN2			04/06/2012 19:00	01:00:00	2.6	181.8	47.0	66.8	26.8		
			04/06/2012 07:00	01:00:00	2.4	77.5	71.2	82.4	49.4		
			04/06/2012 08:00	01:00:00	4.1	69.0	74.7	84.1	62.3		
			04/06/2012 09:00	01:00:00	4.1	84.3	75.1	79.5	66.0		
			04/06/2012 10:00	01:00:00	4.6	68.8	74.0	84.9	65.6		
			04/06/2012 11:00	01:00:00	4.8	73.0	76.1	96.4	67.8		
			04/06/2012 12:00	01:00:00	3.9	83.3	76.8	84.4	61.8		
			04/06/2012 13:00	01:00:00	3.3	82.8	75.5	85.7	61.3		
			04/06/2012 14:00	01:00:00	2.8	76.3	76.6	87.9	69.8		
			04/06/2012 15:00	01:00:00	2.5	85.8	74.2	93.0	66.2		
			04/06/2012 16:00	01:00:00	1.5	73.5	73.7	81.5	66.8		
			04/06/2012 17:00	01:00:00	1.1	136.0	72.8	95.6	62.6		
			04/06/2012 18:00	01:00:00	1.3	237.0	70.5	84.0	64.8		
			04/06/2012 19:00	01:00:00	0.5	158.5	68.3	79.3	47.9		
			RN1	04/06/2012 16:00	01:00:00	1.5	73.5	55.3	82.5	30.0	
04/06/2012 19:00				01:00:00	0.5	158.5	39.9	66.5	27.7		
* Wind speeds in excess of 7 m/s negatively impact noise readings											
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		AN2		AN3		GN1		RN1		

Location	Air Temp. (Min)	Air Temp. (Max)	Start Date and Time	Duration	Wind		Results dB				
					Speed (m/s)*	Direction (Degrees)	L _{Aeq}	L _{Amax}	L _{Amin}		
Action Limit							60.0				
Target Limit							65.0				
AN1	8.9	14.2	05/06/2012 07:00	01:00:00	1.4	214.3	62.1	86.8	35.9		
			05/06/2012 08:00	01:00:00	1.2	232.3	65.7	84.7	46.2		
			05/06/2012 09:00	01:00:00	1.5	233.5	65.8	86.5	42.4		
			05/06/2012 10:00	01:00:00	1.2	241.8	61.5	86.3	41.1		
			05/06/2012 11:00	01:00:00	1.6	248.0	64.7	89.7	41.6		
			05/06/2012 12:00	01:00:00	2.3	246.5	66.8	85.8	49.9		
			05/06/2012 13:00	01:00:00	2.8	256.3	67.1	86.5	48.2		
			05/06/2012 15:00	01:00:00	2.5	255.0	63.9	91.6	46.6		
			05/06/2012 16:00	01:00:00	2.5	255.5	65.8	88.3	51.2		
			05/06/2012 17:00	01:00:00	2.4	265.3	65.1	86.7	46.8		
05/06/2012 19:00			01:00:00	1.2	291.0	37.6	53.6	30.0			
AN2			05/06/2012 07:00	01:00:00	1.4	214.3	51.9	72.3	30.1		
AN3			05/06/2012 19:00	01:00:00	1.2	291.0	45.1	64.9	29.5		
			05/06/2012 18:00	01:00:00	2.2	334.5	44.9	62.4	22.8		
GN1			05/06/2012 19:00	01:00:00	1.2	291.0	47.4	64.1	30.9		
			05/06/2012 16:00	01:00:00	1.5	73.5	56.5	85.0	29.3		
GN2			05/06/2012 19:00	01:00:00	0.5	158.5	47.2	83.3	28.2		
			05/06/2012 08:00	01:00:00	1.2	232.3	71.3	93.9	57.2		
			05/06/2012 09:00	01:00:00	1.5	233.5	65.4	81.1	58.8		
			05/06/2012 10:00	01:00:00	1.2	241.8	62.6	85.2	58.9		
			05/06/2012 11:00	01:00:00	1.6	248.0	65.3	90.5	59.1		
			05/06/2012 13:00	01:00:00	2.8	256.3	65.1	86.0	60.6		
			05/06/2012 14:00	01:00:00	2.5	251.3	65.0	76.9	61.3		
			05/06/2012 15:00	01:00:00	2.5	255.0	65.9	83.5	62.1		
			05/06/2012 16:00	01:00:00	2.5	255.5	63.4	86.7	48.6		
			05/06/2012 19:00	01:00:00	1.2	291.0	51.3	73.0	48.7		
RN1			05/06/2012 14:00	01:00:00	2.5	251.3	50.1	78.3	30.1		
			05/06/2012 19:00	01:00:00	1.2	291.0	47.6	78.9	26.7		
AN1	10.7	16.5	06/06/2012 07:00	01:00:00	2.1	200.8	63.0	90.0	35.0		
			06/06/2012 08:00	01:00:00	3.0	182.3	64.6	91.5	46.1		
			06/06/2012 09:00	01:00:00	2.8	188.0	67.3	95.7	46.4		
			06/06/2012 10:00	01:00:00	3.3	184.3	63.7	91.9	40.3		
			06/06/2012 11:00	01:00:00	3.2	191.5	62.4	87.7	44.8		
			06/06/2012 12:00	01:00:00	3.3	197.5	64.8	87.1	46.7		
			06/06/2012 13:00	01:00:00	3.6	203.5	63.1	86.3	45.8		
			06/06/2012 14:00	01:00:00	4.0	197.3	61.6	87.3	41.7		
			06/06/2012 16:00	01:00:00	5.0	194.5	65.3	93.5	46.7		
			06/06/2012 17:00	01:00:00	4.8	197.3	61.6	87.0	44.5		
06/06/2012 19:00			01:00:00	3.9	188.3	35.5	47.6	28.2			
AN2			06/06/2012 18:00	01:00:00	5.2	187.5	55.0	72.4	31.1		
AN3			06/06/2012 19:00	01:00:00	3.9	188.3	43.1	60.5	25.8		
			06/06/2012 12:00	01:00:00	3.3	197.5	46.0	66.5	26.4		
GN1			06/06/2012 19:00	01:00:00	3.9	188.3	43.3	61.5	22.9		
			06/06/2012 18:00	01:00:00	2.2	334.5	51.8	90.1	26.1		
GN2			06/06/2012 19:00	01:00:00	1.2	291.0	55.9	91.5	27.9		
			06/06/2012 08:00	01:00:00	3.0	182.3	65.4	91.8	48.4		
			06/06/2012 13:00	01:00:00	3.6	203.5	62.5	94.8	50.0		
			06/06/2012 19:00	01:00:00	3.9	188.3	54.2	72.0	48.1		
RN1			06/06/2012 10:00	01:00:00	3.3	184.3	57.7	84.6	24.5		
			06/06/2012 19:00	01:00:00	3.9	188.3	40.5	68.3	23.3		
AN1	11.0	13.4	07/06/2012 08:00	01:00:00	4.7	27.3	63.6	86.6	52.1		
			07/06/2012 09:00	01:00:00	4.6	30.3	65.0	87.6	55.1		
			07/06/2012 10:00	01:00:00	5.0	25.8	64.3	93.0	41.1		
			07/06/2012 12:00	01:00:00	4.9	16.8	60.3	83.9	46.4		
			07/06/2012 13:00	01:00:00	4.5	12.0	60.5	85.9	43.3		
			07/06/2012 15:00	01:00:00	3.8	334.8	60.7	81.9	46.6		
			07/06/2012 16:00	01:00:00	4.4	341.3	60.7	83.5	48.5		
			07/06/2012 17:00	01:00:00	4.8	334.8	61.2	79.8	52.3		
			07/06/2012 18:00	01:00:00	4.6	335.0	60.1	77.3	46.4		
			AN2	07/06/2012 16:00	01:00:00	4.4	341.3	53.7	65.7	48.4	
AN3			07/06/2012 18:00	01:00:00	4.6	335.0	51.5	65.9	39.2		
GN1			07/06/2012 18:00	01:00:00	4.6	335.0	54.2	71.2	42.5		
GN2			07/06/2012 08:00	01:00:00	4.7	27.3	68.0	90.0	53.5		
			07/06/2012 09:00	01:00:00	4.6	30.3	70.1	94.5	54.5		
			07/06/2012 10:00	01:00:00	5.0	25.8	64.9	88.7	54.8		
			07/06/2012 11:00	01:00:00	5.6	21.8	70.1	86.7	56.5		
			07/06/2012 12:00	01:00:00	4.9	16.8	68.8	93.4	56.4		
			07/06/2012 13:00	01:00:00	4.5	12.0	63.0	78.0	58.5		
			07/06/2012 14:00	01:00:00	3.9	345.0	66.4	89.0	55.9		
			07/06/2012 15:00	01:00:00	3.8	334.8	67.0	87.8	61.3		
			07/06/2012 19:00	01:00:00	4.7	310.5	62.4	77.0	51.2		
			RN1	07/06/2012 18:00	01:00:00	4.6	335.0	60.2	82.4	40.4	
* Wind speeds in excess of 7 m/s negatively impact noise readings											
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		AN2		AN3		GN1		RN1

Location	Air Temp. (Min)	Air Temp. (Max)	Start Date and Time	Duration	Wind		Results dB		
					Speed (m/s)*	Direction (Degrees)	L _{Aeq}	L _{Amax}	L _{Amin}
Action Limit							60.0		
Target Limit							65.0		
AN1	10.5	11.6	08/06/2012 07:00	01:00:00	8.6	268.0	66.3	83.6	52.0
			08/06/2012 08:00	01:00:00	8.3	260.5	69.0	85.7	53.1
			08/06/2012 09:00	01:00:00	8.2	258.0	69.8	88.6	56.3
			08/06/2012 10:00	01:00:00	8.4	255.5	69.1	83.4	55.2
			08/06/2012 11:00	01:00:00	8.3	250.5	69.9	84.2	54.0
			08/06/2012 12:00	01:00:00	6.0	299.0	70.8	84.5	55.3
			08/06/2012 13:00	01:00:00	5.3	285.5	67.7	83.0	51.6
			08/06/2012 14:00	01:00:00	5.8	280.8	67.8	84.4	49.5
			08/06/2012 15:00	01:00:00	6.3	291.3	65.0	81.1	48.4
			08/06/2012 16:00	01:00:00	6.9	280.8	65.3	83.1	48.8
			08/06/2012 17:00	01:00:00	6.2	284.0	66.2	83.8	47.4
			08/06/2012 18:00	01:00:00	5.4	277.3	67.4	85.0	48.3
08/06/2012 19:00			01:00:00	4.0	285.0	65.8	84.4	47.0	
AN2			08/06/2012 07:00	01:00:00	8.6	268.0	63.5	81.5	47.2
			08/06/2012 08:00	01:00:00	8.3	260.5	63.1	79.8	48.3
			08/06/2012 09:00	01:00:00	8.2	258.0	60.9	75.2	48.8
			08/06/2012 10:00	01:00:00	8.4	255.5	60.2	79.3	47.0
			08/06/2012 11:00	01:00:00	8.3	250.5	61.7	80.9	47.6
AN3			08/06/2012 12:00	01:00:00	6.0	299.0	60.6	75.8	48.3
			08/06/2012 07:00	01:00:00	8.6	268.0	64.4	80.3	50.6
			08/06/2012 08:00	01:00:00	8.3	260.5	64.4	81.8	49.8
			08/06/2012 09:00	01:00:00	8.2	258.0	64.9	79.9	50.0
			08/06/2012 10:00	01:00:00	8.4	255.5	62.8	84.9	45.7
GN1			08/06/2012 11:00	01:00:00	8.3	250.5	61.3	73.6	48.9
			08/06/2012 09:00	01:00:00	8.2	258.0	61.5	87.9	50.8
			08/06/2012 10:00	01:00:00	8.4	255.5	63.7	91.8	52.0
			08/06/2012 11:00	01:00:00	8.3	250.5	62.9	77.9	51.5
			08/06/2012 12:00	01:00:00	8.1	249.5	63.4	78.5	51.1
			08/06/2012 13:00	01:00:00	7.6	246.5	63.0	77.2	51.3
			08/06/2012 14:00	01:00:00	8.1	246.3	62.9	76.2	48.6
			08/06/2012 15:00	01:00:00	7.6	243.8	62.7	88.1	49.0
			08/06/2012 16:00	01:00:00	7.3	243.3	61.6	77.8	49.7
			08/06/2012 17:00	01:00:00	7.6	245.3	61.5	77.4	49.1
			08/06/2012 18:00	01:00:00	7.5	247.0	60.6	76.8	48.3
GN2			08/06/2012 19:00	01:00:00	7.4	246.8	60.1	75.2	47.6
			08/06/2012 07:00	01:00:00	8.6	268.0	73.5	88.5	60.3
			08/06/2012 08:00	01:00:00	8.3	260.5	74.4	87.7	59.8
			08/06/2012 09:00	01:00:00	8.2	258.0	74.1	91.6	61.8
			08/06/2012 10:00	01:00:00	8.4	255.5	75.2	92.9	61.8
			08/06/2012 11:00	01:00:00	8.3	250.5	75.6	91.6	62.3
			08/06/2012 12:00	01:00:00	8.1	249.5	74.7	87.1	61.3
			08/06/2012 13:00	01:00:00	7.6	246.5	74.4	87.8	60.9
			08/06/2012 14:00	01:00:00	8.1	246.3	74.8	85.7	62.8
			08/06/2012 15:00	01:00:00	7.6	243.8	74.4	89.7	61.3
			08/06/2012 16:00	01:00:00	7.3	243.3	73.8	87.6	60.4
			08/06/2012 17:00	01:00:00	7.6	245.3	73.7	85.8	61.3
			08/06/2012 18:00	01:00:00	7.5	247.0	73.7	85.6	60.7
08/06/2012 19:00			01:00:00	7.4	246.8	73.0	84.8	59.7	
RN1			08/06/2012 08:00	01:00:00	8.3	260.5	60.6	83.1	43.9
AN1	10.5	14.4	09/06/2012 08:00	01:00:00	3.5	313.5	54.0	71.7	42.4
AN2			09/06/2012 08:00	01:00:00	3.5	279.8	45.9	65.5	33.5
AN3			09/06/2012 08:00	01:00:00	5.4	247.0	51.1	68.2	36.4
GN1			09/06/2012 14:00	01:00:00	3.2	259.5	56.8	95.9	35.4
GN2			09/06/2012 07:00	01:00:00	4.9	242.8	64.4	80.1	53.2
			09/06/2012 08:00	01:00:00	5.4	247.0	68.9	85.5	64.2
			09/06/2012 09:00	01:00:00	4.8	244.5	69.8	82.2	67.0
			09/06/2012 10:00	01:00:00	4.3	238.5	69.0	86.2	65.9
			09/06/2012 11:00	01:00:00	4.1	234.3	69.9	91.4	65.7
			09/06/2012 12:00	01:00:00	3.8	236.5	69.7	89.8	65.6
			09/06/2012 13:00	01:00:00	3.6	238.0	69.1	94.5	65.7
			09/06/2012 14:00	01:00:00	3.8	237.0	68.7	81.5	65.5
			09/06/2012 15:00	01:00:00	3.8	244.5	66.8	80.2	49.7
			RN1	09/06/2012 09:00	01:00:00	4.2	289.0	53.2	82.9
* Wind speeds in excess of 7 m/s negatively impact noise readings									
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		AN2		AN3		GN1		RN1

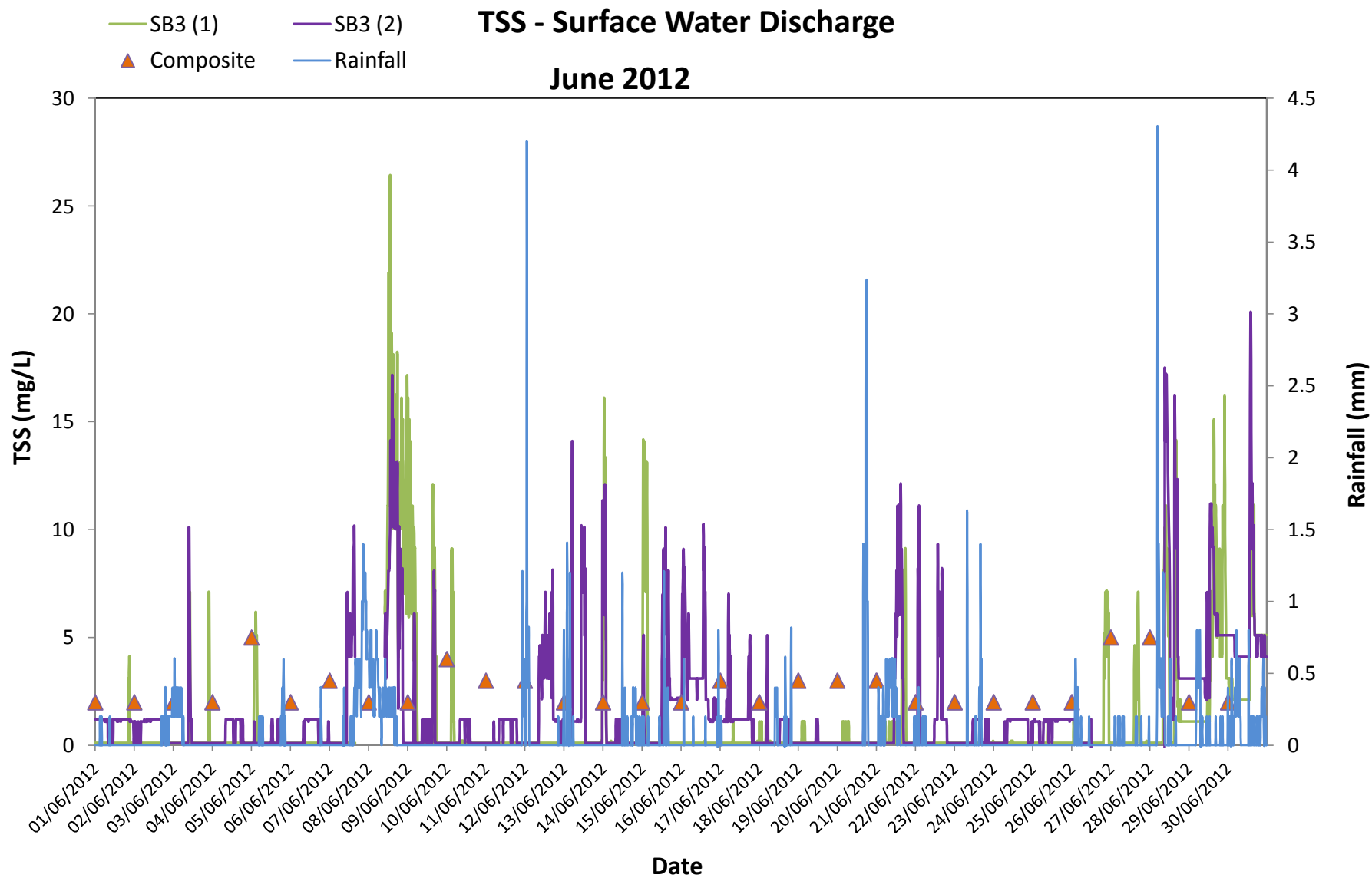
Location	Air Temp. (Min)	Air Temp. (Max)	Start Date and Time	Duration	Wind		Results dB				
					Speed (m/s)*	Direction (Degrees)	L _{Aeq}	L _{Amax}	L _{Amin}		
Action Limit							60.0				
Target Limit							65.0				
AN1	7.0	16.1	11/06/2012 07:00	01:00:00	0.3	86.0	62.4	84.1	36.7		
			11/06/2012 08:00	01:00:00	0.9	193.5	63.2	84.2	49.7		
			11/06/2012 09:00	01:00:00	1.9	259.0	61.2	84.5	44.4		
			11/06/2012 12:00	01:00:00	1.9	177.0	60.0	90.4	44.6		
AN2			11/06/2012 18:00	01:00:00	3.5	344.3	55.2	76.5	31.0		
AN3			11/06/2012 07:00	01:00:00	0.4	68.5	54.6	76.0	24.2		
GN1			11/06/2012 14:00	01:00:00	3.0	325.8	44.4	73.5	31.5		
GN2			11/06/2012 08:00	01:00:00	1.6	104.8	68.1	89.1	48.6		
			11/06/2012 09:00	01:00:00	2.4	180.5	64.8	86.4	49.0		
			11/06/2012 11:00	01:00:00	2.5	344.0	61.5	83.6	50.0		
			11/06/2012 12:00	01:00:00	2.9	346.3	66.7	85.6	54.7		
			11/06/2012 13:00	01:00:00	3.0	264.8	63.8	93.1	47.4		
			11/06/2012 14:00	01:00:00	3.0	325.8	60.4	85.9	46.5		
			11/06/2012 15:00	01:00:00	3.3	319.0	64.0	86.7	50.3		
			11/06/2012 16:00	01:00:00	3.0	308.0	63.7	87.4	48.7		
RN1			11/06/2012 09:00	01:00:00	1.9	259.0	54.0	79.3	25.9		
AN1	10.1	13.7	12/06/2012 07:00	01:00:00	3.0	346.0	64.5	92.4	39.4		
			12/06/2012 08:00	01:00:00	2.6	250.5	65.7	91.6	48.8		
			12/06/2012 09:00	01:00:00	3.7	248.3	62.9	84.8	44.2		
			12/06/2012 11:00	01:00:00	2.9	345.3	63.2	92.1	45.6		
12/06/2012 12:00			01:00:00	3.1	327.3	65.0	93.4	46.8			
12/06/2012 13:00			01:00:00	5.2	324.3	64.2	90.7	46.4			
12/06/2012 15:00			01:00:00	4.9	336.3	64.0	92.4	54.9			
12/06/2012 16:00			01:00:00	4.3	246.8	64.7	89.1	44.5			
12/06/2012 17:00			01:00:00	3.9	330.3	63.1	78.3	42.7			
AN2			12/06/2012 11:00	01:00:00	2.9	345.3	56.3	75.2	42.6		
AN3			12/06/2012 19:00	01:00:00	4.2	309.0	49.0	69.8	30.2		
GN1			12/06/2012 14:00	01:00:00	5.1	285.5	51.6	91.6	34.1		
GN2			12/06/2012 08:00	01:00:00	3.8	298.5	64.9	86.2	49.8		
			12/06/2012 09:00	01:00:00	4.4	304.3	66.0	84.2	50.9		
			12/06/2012 11:00	01:00:00	3.7	308.8	66.2	87.4	54.9		
			12/06/2012 12:00	01:00:00	3.7	310.3	63.8	83.9	55.8		
			12/06/2012 13:00	01:00:00	4.5	296.8	60.1	80.9	49.2		
			12/06/2012 15:00	01:00:00	5.0	303.8	63.0	85.6	50.7		
			12/06/2012 16:00	01:00:00	3.9	310.8	64.5	85.2	50.4		
			RN1	12/06/2012 14:00	01:00:00	4.6	325.3	48.6	75.3	30.3	
AN1	10.2	14.6	13/06/2012 07:00	01:00:00	1.5	346.5	64.2	82.8	35.7		
			13/06/2012 08:00	01:00:00	1.4	179.8	62.2	84.0	45.6		
			13/06/2012 09:00	01:00:00	3.2	104.0	60.7	82.8	41.6		
			13/06/2012 12:00	01:00:00	3.0	101.5	62.3	86.7	42.8		
13/06/2012 13:00			01:00:00	2.9	24.3	63.7	84.1	45.0			
13/06/2012 14:00			01:00:00	2.6	115.0	60.7	91.5	33.5			
13/06/2012 15:00			01:00:00	3.8	25.5	62.8	84.3	41.7			
AN2			13/06/2012 18:00	01:00:00	3.4	97.8	54.7	72.3	34.3		
AN3			13/06/2012 07:00	01:00:00	2.3	341.5	47.6	65.1	23.5		
GN1			13/06/2012 16:00	01:00:00	3.9	179.0	60.8	93.9	34.5		
GN2			13/06/2012 08:00	01:00:00	2.2	356.8	67.8	86.8	49.6		
			13/06/2012 09:00	01:00:00	3.3	94.5	67.8	88.9	52.5		
			13/06/2012 10:00	01:00:00	3.8	17.5	62.7	87.9	49.1		
			13/06/2012 11:00	01:00:00	4.9	24.3	65.9	94.1	54.2		
			13/06/2012 12:00	01:00:00	3.6	99.8	67.1	92.9	54.2		
			13/06/2012 13:00	01:00:00	3.4	103.3	61.2	84.4	53.5		
			13/06/2012 14:00	01:00:00	3.1	345.5	62.1	87.5	48.4		
			13/06/2012 15:00	01:00:00	3.4	350.8	64.9	89.3	49.4		
AN3			13/06/2012 16:00	01:00:00	3.9	179.0	61.1	84.5	48.5		
RN1			13/06/2012 13:00	01:00:00	2.9	24.3	53.9	81.7	28.9		
AN1	9.8	14.5	14/06/2012 07:00	01:00:00	1.5	123.0	60.6	85.6	35.1		
			14/06/2012 08:00	01:00:00	2.3	126.0	64.1	84.2	48.2		
			14/06/2012 09:00	01:00:00	1.1	164.3	64.6	86.1	48.7		
			14/06/2012 10:00	01:00:00	1.4	111.8	62.8	87.2	41.2		
14/06/2012 11:00			01:00:00	1.3	131.5	64.9	87.9	46.7			
14/06/2012 12:00			01:00:00	1.8	112.0	66.1	90.0	51.0			
14/06/2012 13:00			01:00:00	2.8	112.5	64.3	86.9	52.1			
14/06/2012 14:00			01:00:00	2.3	150.8	61.0	84.0	47.8			
14/06/2012 15:00			01:00:00	1.1	88.8	67.4	88.6	50.7			
14/06/2012 16:00			01:00:00	1.8	158.3	67.3	93.2	50.9			
14/06/2012 17:00			01:00:00	2.7	50.0	67.3	89.2	53.2			
AN2			14/06/2012 13:00	01:00:00	2.8	112.5	52.8	72.7	33.8		
AN3			14/06/2012 19:00	01:00:00	3.6	79.3	51.6	72.0	37.9		
GN1			14/06/2012 18:00	01:00:00	6.6	50.5	48.8	69.5	36.8		
GN2			14/06/2012 09:00	00:59:50	4.8	66.5	66.3	88.5	49.2		
			14/06/2012 11:00	01:00:00	4.8	68.3	71.7	102.4	51.7		
			14/06/2012 12:00	01:00:00	3.3	70.0	61.0	82.9	53.6		
			14/06/2012 13:00	01:00:00	4.3	89.5	63.9	84.9	49.7		
			14/06/2012 14:00	01:00:00	5.0	74.5	61.2	85.2	49.3		
			14/06/2012 15:00	01:00:00	4.5	65.0	63.5	83.0	52.0		
			14/06/2012 17:00	01:00:00	5.7	52.8	60.6	82.7	48.3		
			14/06/2012 18:00	01:00:00	6.6	50.5	62.9	84.7	48.9		
RN1			14/06/2012 11:00	01:00:00	1.3	131.5	56.7	78.0	36.1		
* Wind speeds in excess of 7 m/s negatively impact noise readings											
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		AN2		AN3		GN1		RN1		

Location	Air Temp. (Min)	Air Temp. (Max)	Start Date and Time	Duration	Wind		Results dB				
					Speed (m/s)*	Direction (Degrees)	L _{Aeq}	L _{Amax}	L _{Amin}		
Action Limit							60.0				
Target Limit							65.0				
AN1	10.5	13.4	15/06/2012 07:00	01:00:00	8.0	36.8	68.9	91.6	45.9		
			15/06/2012 08:00	01:00:00	7.5	37.5	71.2	91.4	52.9		
			15/06/2012 09:00	01:00:00	5.5	40.8	70.1	96.0	52.5		
			15/06/2012 10:00	01:00:00	6.2	44.3	69.8	89.8	49.2		
			15/06/2012 11:00	01:00:00	8.1	46.0	72.0	95.6	50.6		
			15/06/2012 12:00	01:00:00	10.6	36.3	71.7	86.9	51.0		
			15/06/2012 13:00	01:00:00	7.2	29.7	65.4	83.2	46.8		
			15/06/2012 14:00	01:00:00	6.9	25.8	66.2	84.0	45.0		
			15/06/2012 15:00	01:00:00	8.3	42.5	63.2	82.0	46.6		
			15/06/2012 16:00	01:00:00	6.5	33.3	62.2	82.1	42.8		
			15/06/2012 18:00	01:00:00	7.5	36.0	63.1	81.8	41.0		
			15/06/2012 19:00	01:00:00	6.7	45.0	61.2	81.7	40.0		
AN2			15/06/2012 10:00	01:00:00	6.2	44.3	61.3	77.8	43.2		
			15/06/2012 11:00	01:00:00	8.1	46.0	62.8	80.7	44.0		
			15/06/2012 12:00	01:00:00	10.6	36.3	65.8	81.1	45.5		
			15/06/2012 13:00	01:00:00	7.2	29.7	63.2	78.1	47.3		
			15/06/2012 14:00	01:00:00	6.9	25.8	61.4	79.3	44.3		
			15/06/2012 15:00	01:00:00	8.3	42.5	60.8	76.8	43.7		
AN3			15/06/2012 07:00	01:00:00	8.0	36.8	63.6	82.9	45.1		
			15/06/2012 08:00	01:00:00	7.5	37.5	64.9	90.7	45.3		
			15/06/2012 09:00	01:00:00	5.5	40.8	63.1	82.8	44.2		
			15/06/2012 10:00	01:00:00	6.2	44.3	62.2	83.1	42.3		
GN1			15/06/2012 12:00	01:00:00	10.6	36.3	60.6	81.8	44.8		
			15/06/2012 09:00	01:00:00	10.0	31.3	60.7	78.8	42.3		
			15/06/2012 10:00	01:00:00	10.9	29.0	64.0	82.5	43.0		
			15/06/2012 11:00	01:00:00	10.8	28.3	65.8	83.3	45.9		
			15/06/2012 12:00	01:00:00	10.7	26.8	66.5	89.1	45.3		
			15/06/2012 13:00	01:00:00	9.4	24.3	63.4	80.3	47.2		
			15/06/2012 14:00	01:00:00	9.1	21.3	62.3	82.6	46.1		
			15/06/2012 15:00	01:00:00	8.8	22.3	62.8	79.0	46.6		
GN2			15/06/2012 16:00	01:00:00	8.7	18.3	62.6	81.4	45.3		
			15/06/2012 17:00	01:00:00	8.7	24.0	60.1	79.9	42.7		
			15/06/2012 07:00	01:00:00	9.8	36.3	71.1	94.2	50.4		
			15/06/2012 08:00	01:00:00	9.9	34.5	72.9	92.6	51.3		
			15/06/2012 09:00	01:00:00	10.0	31.3	70.4	93.4	51.6		
			15/06/2012 10:00	01:00:00	10.9	29.0	70.7	95.6	51.4		
			15/06/2012 11:00	01:00:00	10.8	28.3	67.8	92.8	52.7		
			15/06/2012 12:00	01:00:00	10.7	26.8	67.3	94.1	53.3		
			15/06/2012 13:00	01:00:00	9.4	24.3	72.2	94.7	53.3		
			15/06/2012 14:00	01:00:00	9.1	21.3	69.4	92.3	52.2		
			15/06/2012 15:00	01:00:00	8.8	22.3	68.3	102.1	51.3		
			15/06/2012 16:00	01:00:00	8.7	18.3	68.9	90.5	51.9		
			15/06/2012 17:00	01:00:00	8.7	24.0	71.6	91.7	50.6		
			15/06/2012 18:00	01:00:00	8.1	25.0	70.2	93.1	50.1		
15/06/2012 19:00			01:00:00	7.2	22.8	63.8	88.9	49.8			
RN1			15/06/2012 07:00	01:00:00	8.0	36.8	61.4	77.1	47.7		
			15/06/2012 08:00	01:00:00	7.5	37.5	62.1	77.1	48.6		
			15/06/2012 09:00	01:00:00	5.5	40.8	62.6	81.3	48.6		
			15/06/2012 10:00	01:00:00	6.2	44.3	60.4	80.2	46.7		
			15/06/2012 11:00	01:00:00	8.1	46.0	62.3	79.5	48.2		
			15/06/2012 12:00	01:00:00	10.6	36.3	63.8	80.5	49.3		
			15/06/2012 13:00	01:00:00	7.2	29.7	65.0	80.5	48.0		
			15/06/2012 14:00	01:00:00	6.9	25.8	62.9	77.7	48.3		
			15/06/2012 15:00	01:00:00	8.3	42.5	62.5	79.2	49.3		
AN1			9.0	12.2	16/06/2012 07:00	1:00:00	5.0	260.3	58.9	78.1	39.3
AN2	16/06/2012 09:00	01:00:00			4.8	338.3	47.1	65.0	36.1		
AN3	16/06/2012 19:00	01:00:00			4.7	331.8	43.4	64.4	30.8		
GN1	16/06/2012 10:00	01:00:00			4.7	304.3	71.7	82.6	32.8		
RN1	16/06/2012 07:00	01:00:00			5.0	260.3	56.8	81.0	33.6		
AN1	6.6	14.6	18/06/2012 07:00	01:00:00	0.5	168.3	63.5	84.2	36.1		
			18/06/2012 08:00	01:00:00	0.7	101.3	65.3	86.9	54.9		
			18/06/2012 09:00	01:00:00	0.8	193.0	66.3	84.6	53.7		
			18/06/2012 10:00	01:00:00	2.0	171.0	63.5	90.5	45.3		
			18/06/2012 11:00	01:00:00	0.9	190.8	64.2	81.8	54.8		
			18/06/2012 12:00	01:00:00	1.8	150.3	70.3	89.9	57.8		
			18/06/2012 13:00	01:00:00	1.8	143.3	68.0	87.8	53.5		
			18/06/2012 14:00	01:00:00	1.7	186.5	64.4	88.5	45.3		
			18/06/2012 15:00	01:00:00	2.5	202.5	66.6	83.9	55.6		
			18/06/2012 16:00	01:00:00	2.0	206.0	67.0	89.3	57.9		
			18/06/2012 17:00	01:00:00	1.6	175.8	66.6	90.6	57.7		
			18/06/2012 18:00	01:00:00	1.5	195.0	61.2	83.0	34.4		
AN2			18/06/2012 18:00	01:00:00	1.5	195.0	55.4	74.5	26.3		
AN3			18/06/2012 07:00	01:00:00	0.5	168.3	58.3	74.7	21.8		
GN1			18/06/2012 09:00	01:00:00	2.0	91.5	47.3	81.7	29.4		
GN2			18/06/2012 08:00	01:00:00	2.1	84.8	65.8	91.1	48.3		
			18/06/2012 09:00	01:00:00	2.0	91.5	62.6	90.4	51.7		
			18/06/2012 11:00	01:00:00	2.2	99.0	64.4	92.2	48.0		
			18/06/2012 16:00	01:00:00	3.0	172.3	69.1	93.2	49.0		
			18/06/2012 19:00	01:00:00	2.2	159.0	52.5	83.4	48.2		
RN1			18/06/2012 15:00	01:00:00	2.5	202.5	44.3	62.3	22.5		
* Wind speeds in excess of 7 m/s negatively impact noise readings											
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		AN2		AN3		GN1		RN1		

Location	Air Temp. (Min)	Air Temp. (Max)	Start Date and Time	Duration	Wind		Results dB				
					Speed (m/s)*	Direction (Degrees)	L _{Aeq}	L _{Amax}	L _{Amin}		
Action Limit							60.0				
Target Limit							65.0				
AN1	6.8	17.2	19/06/2012 07:00	01:00:00	1.4	172.8	66.2	81.3	38.6		
			19/06/2012 08:00	01:00:00	1.2	195.0	65.8	82.2	55.4		
			19/06/2012 09:00	01:00:00	1.7	229.5	65.4	86.3	56.6		
			19/06/2012 10:00	01:00:00	2.6	210.8	62.4	90.1	39.0		
			19/06/2012 11:00	01:00:00	1.5	201.8	66.9	92.1	57.1		
			19/06/2012 12:00	01:00:00	2.6	197.5	66.2	84.8	57.6		
			19/06/2012 13:00	01:00:00	2.8	219.0	67.4	86.8	54.9		
			19/06/2012 14:00	01:00:00	1.5	201.3	61.4	84.8	46.7		
			19/06/2012 15:00	01:00:00	2.0	199.5	64.7	88.1	50.9		
			19/06/2012 16:00	01:00:00	1.3	141.3	62.9	88.2	46.3		
19/06/2012 17:00			01:00:00			64.0	87.1	45.7			
AN2			19/06/2012 08:00	01:00:00	1.2	195.0	49.7	71.9	32.3		
AN3			19/06/2012 08:00	01:00:00	1.2	195.0	49.5	73.8	22.2		
GN1			19/06/2012 11:00	01:00:00	2.9	191.0	55.3	88.8	23.5		
GN2			19/06/2012 08:00	01:00:00	2.6	186.0	63.7	84.4	48.8		
			19/06/2012 10:00	01:00:00	3.1	192.8	61.5	89.4	48.5		
			19/06/2012 11:00	01:00:00	2.9	191.0	63.7	92.7	48.4		
			19/06/2012 12:00	01:00:00	2.8	220.3	61.5	80.1	48.8		
			19/06/2012 13:00	01:00:00	3.2	186.3	64.7	85.8	48.5		
RN1	19/06/2012 16:00	01:00:00	3.3	202.3	64.0	84.7	47.7				
	19/06/2012 08:00	01:00:00	1.2	195.0	49.5	73.8	22.2				
	AN1	10.4	18.5	20/06/2012 07:00	01:00:00	1.1	90.5	65.1	86.8	38.3	
20/06/2012 12:00				01:00:00	1.8	135.5	61.7	90.1	51.0		
20/06/2012 15:00				01:00:00	2.5	197.5	62.5	79.4	50.8		
20/06/2012 16:00				01:00:00	2.0	279.3	63.7	96.3	41.2		
20/06/2012 17:00				01:00:00	1.0	279.5	60.6	78.3	50.0		
AN2				20/06/2012 15:00	01:00:00	2.5	197.5	53.8	74.3	30.9	
20/06/2012 19:00				01:00:00	0.9	134.3	43.3	63.8	24.2		
AN3				20/06/2012 07:00	01:00:00	1.1	90.5	53.3	73.7	23.7	
GN1				20/06/2012 17:00	01:00:00	1.3	157.0	53.7	68.3	26.2	
GN2				20/06/2012 08:00	01:00:00	2.7	89.5	68.0	95.5	50.0	
	20/06/2012 09:00			01:00:00	3.0	104.3	66.1	87.3	45.8		
	20/06/2012 11:00			01:00:00	3.2	106.8	60.7	82.3	48.8		
	20/06/2012 12:00			01:00:00	3.2	102.3	62.4	85.9	48.7		
	20/06/2012 13:00			01:00:00	3.0	108.8	61.6	85.3	48.6		
	20/06/2012 14:00			01:00:00	2.7	127.3	65.6	95.0	44.9		
	20/06/2012 15:00			01:00:00	1.9	208.3	66.7	90.3	48.3		
	20/06/2012 16:00			01:00:00	1.6	272.5	64.0	94.7	48.5		
RN1	20/06/2012 19:00			01:00:00	1.2	39.5	52.0	79.1	48.5		
	20/06/2012 07:00			01:00:00	1.1	90.5	53.3	73.7	23.7		
AN1	11.1			12.6	21/06/2012 11:00	01:00:00	3.9	39.5	60.2	91.0	45.2
		21/06/2012 14:00	01:00:00		4.0	61.8	61.5	87.5	39.8		
		21/06/2012 15:00	01:00:00		4.4	51.0	63.8	91.0	45.8		
		21/06/2012 18:00	01:00:00		2.3	189.8	64.4	89.7	29.2		
AN2		21/06/2012 18:00	01:00:00		2.3	189.8	54.6	73.5	32.8		
AN3		21/06/2012 11:00	01:00:00		3.9	39.5	49.7	65.6	37.3		
GN1		21/06/2012 12:00	01:00:00		6.0	37.3	60.4	93.9	35.7		
GN2		21/06/2012 08:00	01:00:00		2.4	21.8	69.2	91.6	50.5		
		21/06/2012 09:00	01:00:00		3.4	177.0	66.9	86.7	47.5		
		21/06/2012 10:00	01:00:00		5.5	24.3	62.3	86.9	50.8		
		21/06/2012 11:00	01:00:00		6.1	41.0	65.7	86.3	52.8		
		21/06/2012 12:00	01:00:00		6.0	37.3	63.2	83.7	49.1		
		21/06/2012 14:00	01:00:00		5.5	38.5	62.4	78.5	50.4		
		21/06/2012 15:00	01:00:00		5.5	28.0	67.4	87.4	51.1		
		21/06/2012 09:00	01:00:00		3.4	177.0	55.2	69.2	39.0		
* Wind speeds in excess of 7 m/s negatively impact noise readings											
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			AN2		AN3		GN1		RN1

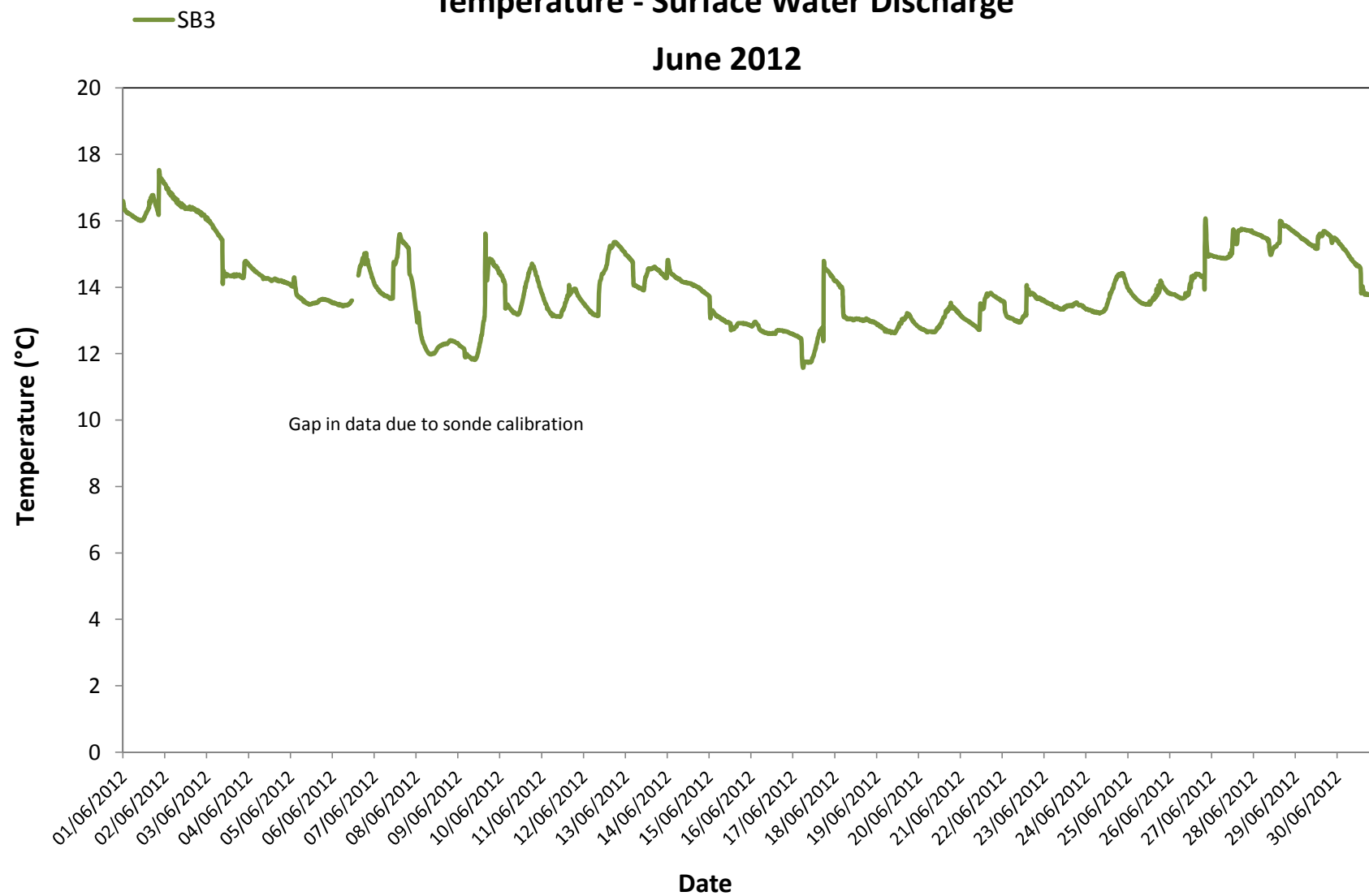
Location	Air Temp. (Min)	Air Temp. (Max)	Start Date and Time	Duration	Wind		Results dB		
					Speed (m/s)*	Direction (Degrees)	L _{Aeq}	L _{Amax}	L _{Amin}
Action Limit							60.0		
Target Limit							65.0		
AN1	11.0	15.6	22/06/2012 07:00	01:00:00	5.8	284.0	63.3	82.3	44.2
			22/06/2012 08:00	01:00:00	6.7	289.0	66.7	84.4	52.4
			22/06/2012 09:00	01:00:00	3.5	269.3	65.3	88.4	51.8
			22/06/2012 10:00	01:00:00	5.0	281.0	64.7	83.4	50.5
			22/06/2012 11:00	01:00:00	3.7	285.0	65.6	80.3	50.1
			22/06/2012 12:00	01:00:00	5.0	245.3	67.9	85.8	51.2
			22/06/2012 13:00	01:00:00	5.4	263.5	65.4	84.1	51.5
			22/06/2012 14:00	01:00:00	8.6	263.8	65.7	81.6	49.1
			22/06/2012 15:00	01:00:00	5.7	271.0	67.6	85.3	46.7
			22/06/2012 16:00	01:00:00	6.1	278.5	66.7	84.0	46.5
			22/06/2012 17:00	01:00:00	6.2	266.8	63.3	81.8	40.0
			22/06/2012 18:00	01:00:00	5.8	263.5	61.7	85.4	43.6
AN2			22/06/2012 11:00	01:00:00	3.7	285.0	60.8	77.7	43.3
			22/06/2012 13:00	01:00:00	5.4	263.5	60.6	79.2	42.5
			22/06/2012 14:00	01:00:00	8.6	263.8	62.7	81.0	41.6
			22/06/2012 15:00	01:00:00	5.7	271.0	62.2	79.0	42.1
			22/06/2012 16:00	01:00:00	6.1	278.5	61.8	78.5	42.9
			22/06/2012 17:00	01:00:00	6.2	266.8	61.4	79.1	39.1
AN3			22/06/2012 08:00	01:00:00	6.7	289.0	60.3	75.9	43.1
			22/06/2012 09:00	01:00:00	3.5	269.3	60.0	76.9	42.1
			22/06/2012 12:00	01:00:00	5.0	245.3	61.1	75.7	41.5
			22/06/2012 13:00	01:00:00	5.4	263.5	60.6	77.8	42.1
			22/06/2012 14:00	01:00:00	8.6	263.8	61.7	90.1	41.3
			22/06/2012 15:00	01:00:00	5.7	271.0	66.2	82.0	44.3
			22/06/2012 16:00	01:00:00	6.1	278.5	63.7	81.6	43.2
			22/06/2012 17:00	01:00:00	6.2	266.8	63.9	80.1	42.2
			22/06/2012 18:00	01:00:00	5.8	263.5	64.1	79.8	45.0
			22/06/2012 19:00	01:00:00	5.5	245.3	62.7	79.3	43.3
GN1			22/06/2012 15:00	01:00:00	8.0	231.0	61.7	76.3	46.6
			22/06/2012 16:00	01:00:00	8.1	230.8	65.3	97.2	46.7
			22/06/2012 17:00	01:00:00	7.7	226.0	64.9	88.0	46.9
			22/06/2012 18:00	01:00:00	7.6	222.3	61.9	79.9	46.9
GN2			22/06/2012 07:00	01:00:00	6.1	249.0	67.7	80.5	57.4
			22/06/2012 08:00	01:00:00	6.4	248.5	70.8	86.6	58.0
			22/06/2012 09:00	01:00:00	6.0	248.3	68.7	82.7	58.0
			22/06/2012 10:00	01:00:00	6.1	239.5	68.4	81.5	57.3
			22/06/2012 11:00	01:00:00	6.8	234.5	66.6	84.4	57.0
			22/06/2012 12:00	01:00:00	7.2	231.3	64.9	83.5	55.3
			22/06/2012 13:00	01:00:00	7.2	232.3	64.5	82.0	54.1
			22/06/2012 14:00	01:00:00	7.4	231.8	65.0	85.1	55.5
			22/06/2012 15:00	01:00:00	8.0	231.0	67.4	86.8	55.9
			22/06/2012 16:00	01:00:00	8.1	230.8	65.1	78.0	55.2
			22/06/2012 17:00	01:00:00	7.7	226.0	63.9	85.3	54.6
			22/06/2012 18:00	01:00:00	7.6	222.3	63.0	83.3	54.9
			22/06/2012 19:00	01:00:00	7.2	220.3	62.5	87.1	54.8
			RN1	22/06/2012 18:00	01:00:00	7.6	222.3	51.0	78.3
AN1	10.7	15.5	23/06/2012 10:00	01:00:00	3.9	210.3	60.1	82.4	33.2
AN2			23/06/2012 11:00	01:00:00	4.5	210.8	64.3	83.2	36.5
GN1			23/06/2012 11:00	01:00:00	4.5	210.8	51.0	74.9	34.9
GN2			23/06/2012 13:00	01:00:00	5.5	180.8	59.0	93.6	33.2
GN2			23/06/2012 11:00	1:00:00	4.5	210.8	56.6	77.2	49.7
RN1			23/06/2012 11:00	01:00:00	6.9	187.5	50.7	70.5	43.4
AN1	11.7	19.5	25/06/2012 07:00	01:00:00	0.3	136.3	62.8	85.9	36.7
			25/06/2012 08:00	01:00:00	0.4	147.8	66.1	87.9	43.9
			25/06/2012 19:00	01:00:00	3.4	45.3	46.3	69.4	29.6
AN2			25/06/2012 18:00	01:00:00	2.4	34.0	53.7	81.3	30.0
			25/06/2012 19:00	01:00:00	3.4	45.3	45.5	64.3	31.0
AN3			25/06/2012 07:00	01:00:00	0.3	136.3	49.9	73.1	28.6
			25/06/2012 19:00	01:00:00	3.4	45.3	46.0	64.7	32.2
GN1			25/06/2012 15:00	01:00:00	4.7	36.5	48.3	85.0	27.0
			25/06/2012 19:00	01:00:00	4.8	23.5	57.5	86.5	30.6
GN2			25/06/2012 11:00	01:00:00	2.0	58.0	60.1	81.9	51.1
			25/06/2012 13:00	01:00:00	3.2	18.3	66.7	91.7	47.6
			25/06/2012 14:00	01:00:00	4.2	24.0	63.0	90.8	47.2
			25/06/2012 15:00	01:00:00	4.7	36.5	66.3	90.9	49.4
			25/06/2012 16:00	01:00:00	4.9	16.8	67.5	85.7	48.9
			25/06/2012 19:00	01:00:00	4.8	23.5	52.0	81.6	48.9
RN1			25/06/2012 09:00	01:00:00	1.4	26.3	48.6	75.9	23.4
* Wind speeds in excess of 7 m/s negatively impact noise readings									
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		AN2		AN3		GN1		RN1

Location	Air Temp. (Min)	Air Temp. (Max)	Start Date and Time	Duration	Wind		Results dB				
					Speed (m/s)*	Direction (Degrees)	L _{Aeq}	L _{Amax}	L _{Amin}		
Action Limit							60.0				
Target Limit							65.0				
AN1	13.0	16.2	26/06/2012 10:00	01:00:00	1.7	156.3	60.5	77.6	46.6		
			26/06/2012 11:00	01:00:00	3.3	189.0	63.7	89.5	53.3		
			26/06/2012 12:00	01:00:00	7.3	176.5	64.6	81.4	53.1		
			26/06/2012 13:00	01:00:00	5.4	203.0	63.5	82.1	50.0		
			26/06/2012 14:00	01:00:00	4.3	196.3	62.4	82.1	46.0		
			26/06/2012 15:00	01:00:00	5.8	199.3	63.8	81.7	52.6		
			26/06/2012 16:00	01:00:00	4.6	197.3	63.2	82.0	50.9		
			26/06/2012 17:00	01:00:00	5.0	206.3	63.2	84.5	49.0		
			26/06/2012 18:00	01:00:00	6.2	200.3	60.7	81.5	41.8		
AN2			26/06/2012 12:00	01:00:00	7.3	176.5	56.3	75.5	38.0		
			26/06/2012 19:00	01:00:00	3.3	196.3	45.7	66.7	31.0		
AN3			26/06/2012 06:00	01:00:00	0.9	210.5	54.4	78.7	23.3		
			26/06/2012 19:00	01:00:00	3.3	196.3	39.1	59.6	29.6		
GN1			26/06/2012 13:00	01:00:00	6.7	185.0	61.5	78.4	37.0		
			26/06/2012 19:00	01:00:00	6.3	180.5	54.4	71.0	33.3		
GN2			26/06/2012 08:00	01:00:00	3.3	20.3	71.1	100.0	49.3		
			26/06/2012 09:00	01:00:00	2.8	113.3	61.0	85.5	49.8		
			26/06/2012 10:00	01:00:00	2.8	153.0	63.1	84.2	49.3		
			26/06/2012 11:00	01:00:00	3.3	205.5	68.4	93.2	49.4		
			26/06/2012 12:00	01:00:00	6.5	184.5	62.0	90.5	51.6		
			26/06/2012 13:00	01:00:00	6.7	185.0	62.3	88.5	51.1		
			26/06/2012 15:00	01:00:00	6.5	186.3	60.2	84.4	50.9		
			26/06/2012 19:00	01:00:00	6.3	180.5	53.9	72.7	49.2		
RN1			26/06/2012 12:00	01:00:00	6.5	184.5	50.1	65.6	40.8		
AN1	14.5	16.7	27/06/2012 08:00	01:00:00	3.3	198.0	61.1	81.8	51.4		
			27/06/2012 09:00	01:00:00	4.8	193.3	62.0	80.9	49.0		
			27/06/2012 10:00	01:00:00	3.7	189.5	61.3	86.4	44.3		
			27/06/2012 11:00	01:00:00	4.3	192.0	62.4	85.2	52.0		
			27/06/2012 12:00	01:00:00	3.9	180.8	63.5	86.0	50.3		
			27/06/2012 13:00	01:00:00	3.1	190.0	65.0	93.2	51.4		
			27/06/2012 15:00	01:00:00	4.2	190.8	63.1	85.2	51.9		
			27/06/2012 16:00	01:00:00	5.2	188.8	62.6	85.3	51.6		
			27/06/2012 17:00	01:00:00	2.6	183.8	62.8	86.7	46.9		
27/06/2012 19:00			01:00:00	2.0	114.3	38.4	68.5	27.5			
AN2			27/06/2012 17:00	01:00:00	2.6	183.8	53.5	73.0	31.9		
			27/06/2012 19:00	01:00:00	2.0	114.3	43.0	64.5	25.1		
AN3			27/06/2012 06:00	01:00:00	4.3	190.5	55.4	80.8	29.2		
			27/06/2012 19:00	01:00:00	2.0	114.3	36.8	57.2	29.1		
GN1			27/06/2012 16:00	01:00:00	3.7	165.8	59.5	84.7	30.4		
			27/06/2012 19:00	01:00:00	3.2	201.8	41.0	64.7	22.8		
GN2			27/06/2012 09:00	01:00:00	4.4	155.3	61.5	79.5	47.8		
			27/06/2012 16:00	01:00:00	3.7	165.8	60.1	84.4	44.4		
GN2			27/06/2012 16:00	01:00:00	3.7	165.8	60.1	84.4	44.4		
			27/06/2012 19:00	01:00:00	3.2	201.8	48.2	65.4	44.7		
RN1			27/06/2012 07:00	01:00:00	3.7	166.0	58.1	86.5	26.6		
AN1			12.2	17.4	28/06/2012 13:00	01:00:00	4.5	203.5	61.9	87.0	47.3
					28/06/2012 14:00	01:00:00	3.8	191.3	61.1	85.5	46.1
					28/06/2012 15:00	01:00:00	4.5	202.3	62.3	85.3	48.4
	28/06/2012 16:00	01:00:00			5.1	199.8	60.5	87.0	49.8		
AN2	28/06/2012 18:00	01:00:00			4.5	202.0	56.8	75.2	35.5		
	28/06/2012 07:00	01:00:00			0.3	136.3	50.3	78.4	32.6		
AN3	28/06/2012 07:00	01:00:00			0.3	136.3	50.3	78.4	32.6		
	28/06/2012 17:00	01:00:00			6.3	180.0	58.6	86.2	38.3		
GN1	28/06/2012 17:00	01:00:00	6.3	180.0	58.6	86.2	38.3				
	28/06/2012 08:00	01:00:00	4.9	181.8	52.3	77.3	35.6				
AN1	11.3	16.0	29/06/2012 11:00	01:00:00	5.7	227.0	68.1	86.8	53.0		
			29/06/2012 12:00	01:00:00	4.3	200.8	64.0	88.8	47.6		
			29/06/2012 16:00	01:00:00	3.1	272.7	62.9	79.7	41.5		
			AN2	29/06/2012 17:00	01:00:00	3.9	279.5	56.2	74.1	31.3	
				29/06/2012 11:00	01:00:00	5.7	227.0	44.5	61.4	31.5	
			AN3	29/06/2012 18:00	01:00:00	3.8	240.0	61.2	91.4	37.9	
				29/06/2012 08:00	01:00:00	3.4	233.0	48.8	76.9	34.1	
AN1	10.1	13.9	30/06/2012 08:00	01:00:00	4.6	286.5	61.2	78.9	37.7		
			30/06/2012 09:00	01:00:00	4.9	294.3	60.8	81.8	35.2		
			30/06/2012 10:00	01:00:00	4.2	271.8	60.7	80.6	38.9		
			30/06/2012 12:00	01:00:00	5.6	282.3	62.2	82.2	38.2		
			30/06/2012 13:00	01:00:00	4.9	278.3	63.3	81.8	39.8		
			30/06/2012 14:00	01:00:00	6.4	269.5	63.5	82.4	41.9		
			30/06/2012 16:00	01:00:00	5.8	261.0	61.5	81.8	42.7		
			30/06/2012 18:00	01:00:00	5.7	271.8	62.4	79.9	42.5		
			AN2	30/06/2012 14:00	01:00:00	6.4	269.5	58.5	75.7	38.2	
30/06/2012 15:00				01:00:00	6.8	259.8	53.3	72.8	36.7		
GN1			30/06/2012 11:00	01:00:00	6.7	238.5	69.8	90.3	49.0		
			30/06/2012 12:00	01:00:00	6.6	243.0	65.3	84.4	46.1		
			30/06/2012 13:00	01:00:00	7.3	237.8	61.7	84.7	49.2		
			30/06/2012 14:00	01:00:00	7.6	236.3	62.9	82.7	46.9		
			30/06/2012 15:00	01:00:00	7.6	230.0	60.2	84.3	46.8		
			30/06/2012 16:00	01:00:00	7.4	235.0	60.3	79.0	45.9		
			30/06/2012 12:00	01:00:00	5.6	282.3	58.2	84.3	34.0		
			RN1								
* Wind speeds in excess of 7 m/s negatively impact noise readings											
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		AN2		AN3		GN1		RN1



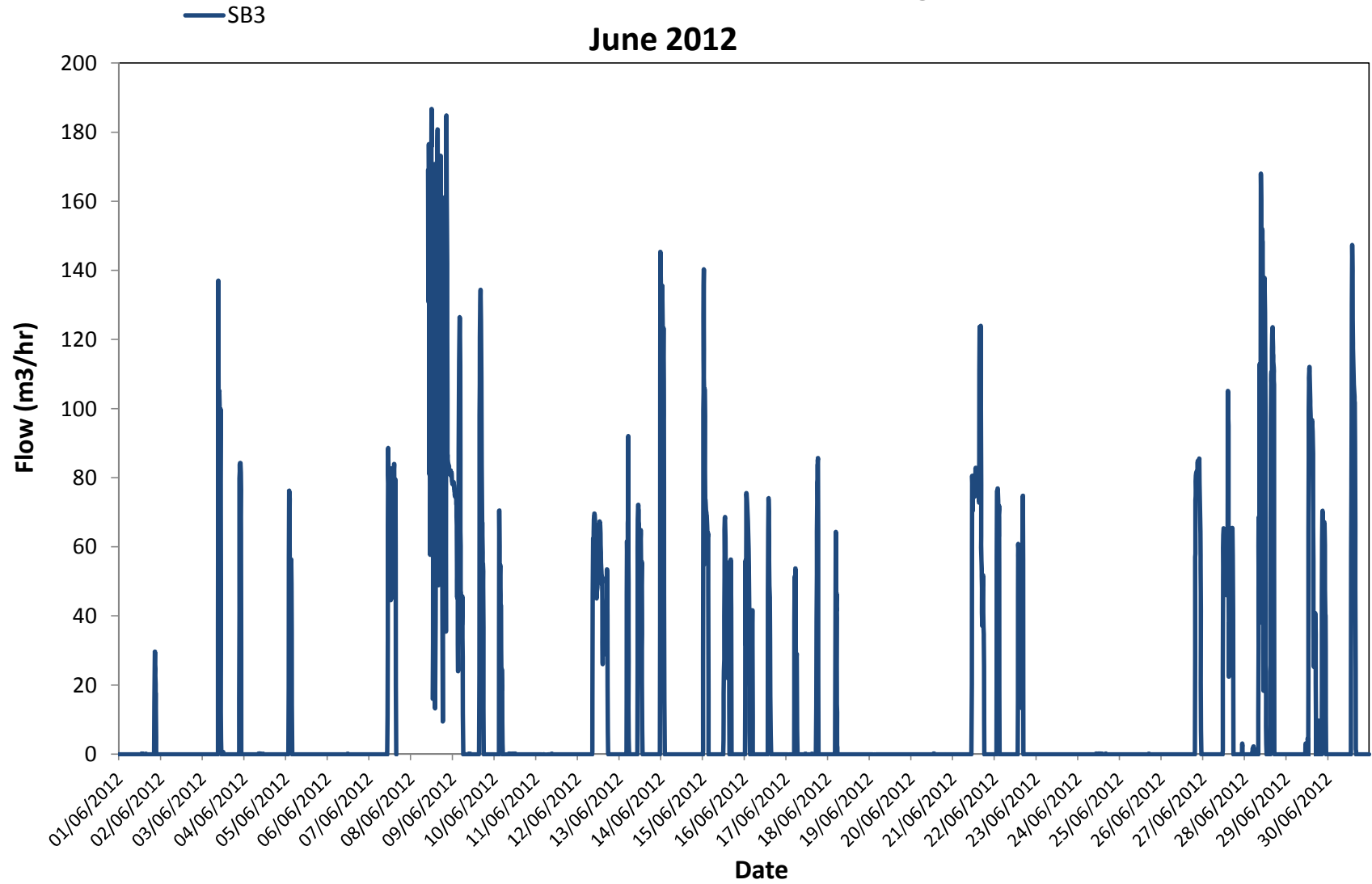
Temperature - Surface Water Discharge

June 2012

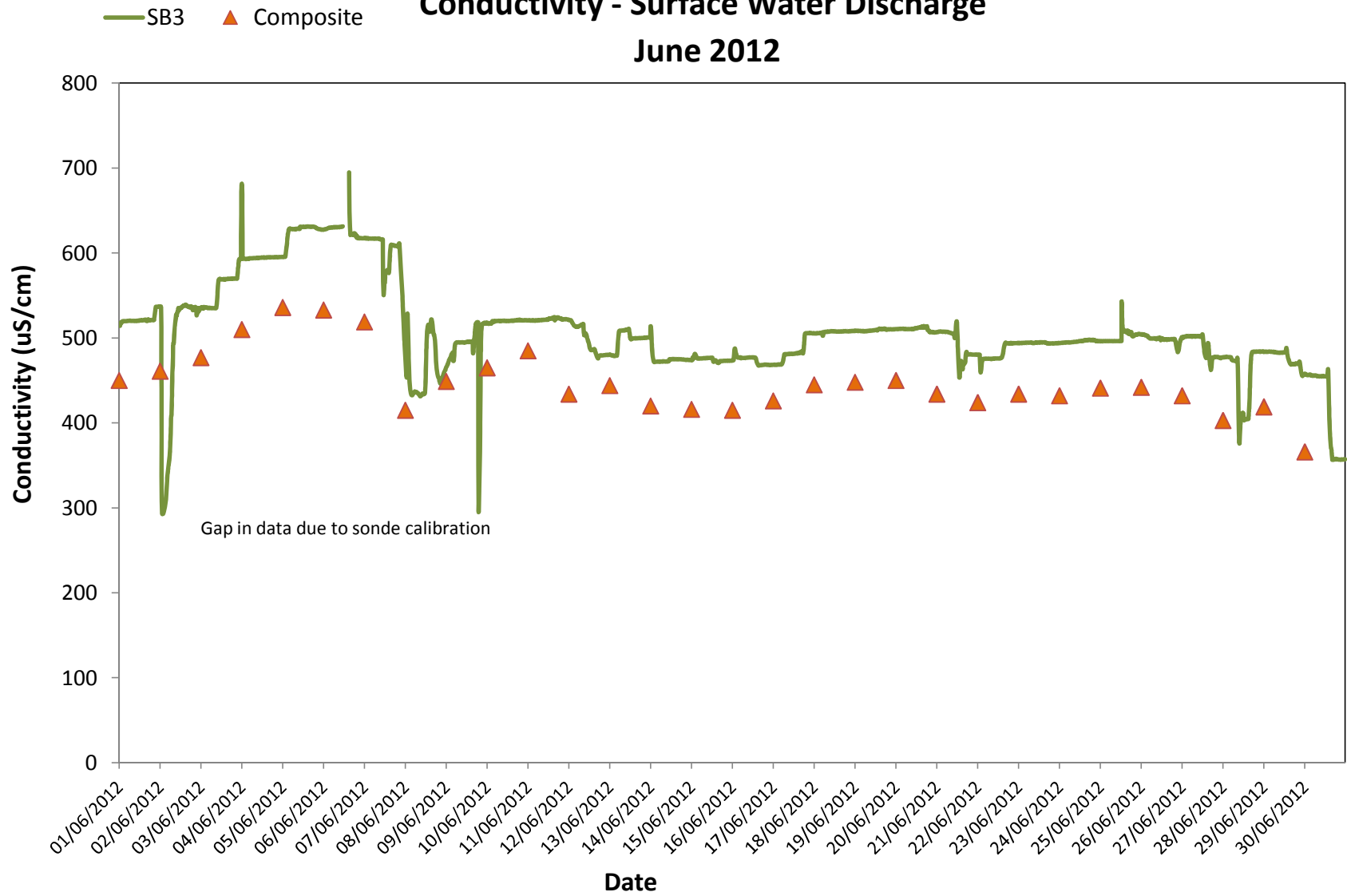


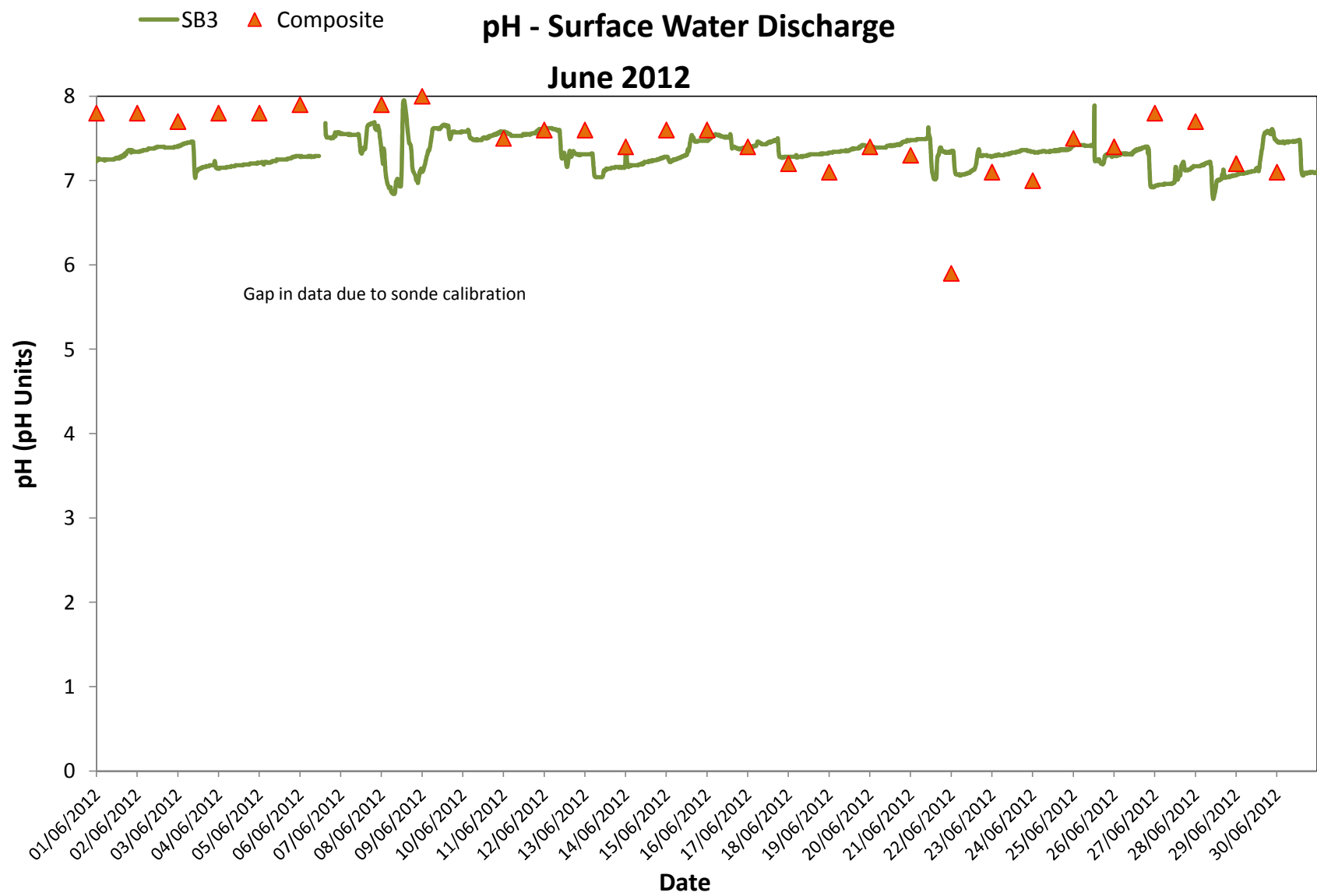
Flow - Surface Water Discharge

June 2012



Conductivity - Surface Water Discharge June 2012

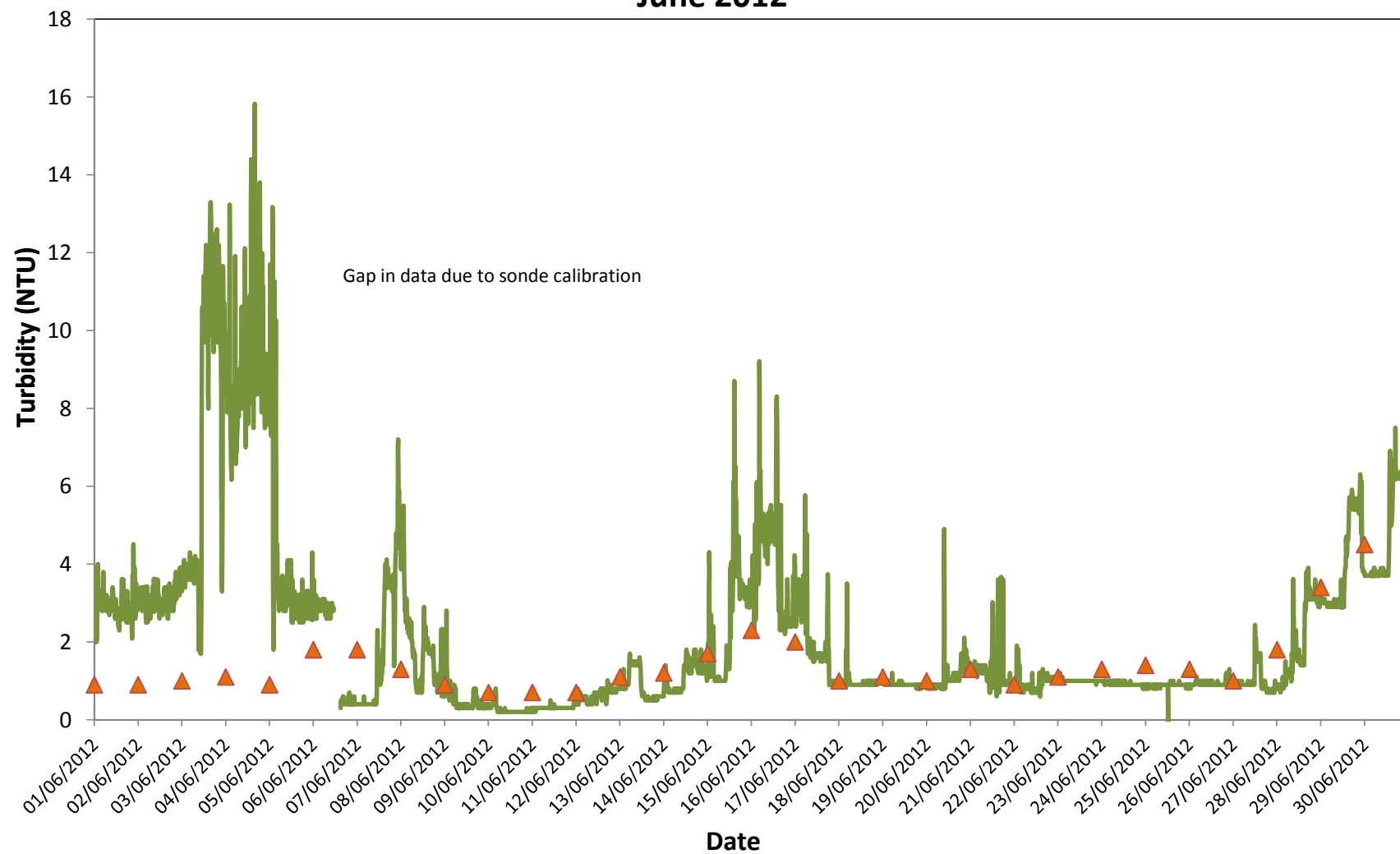


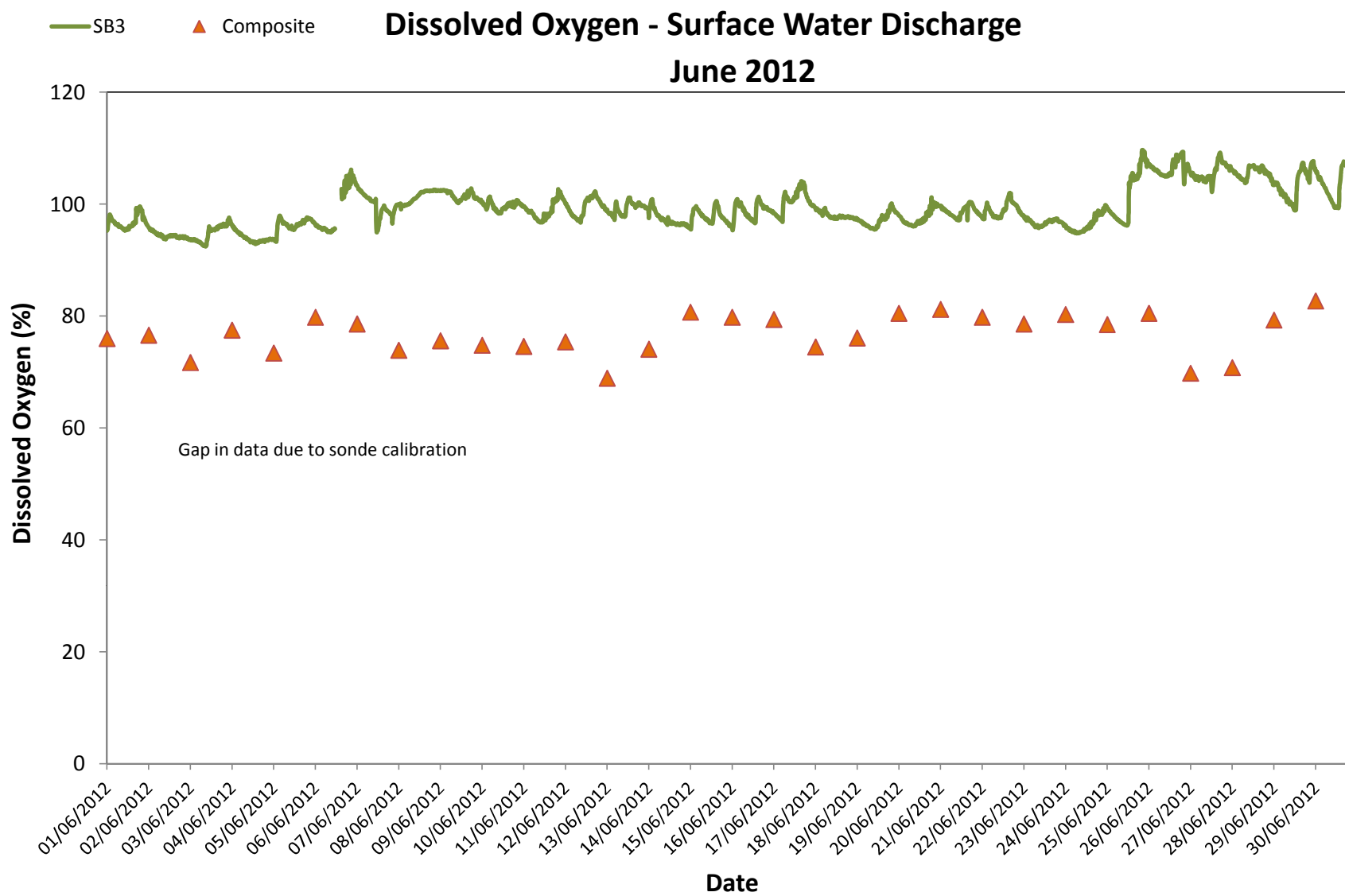


— SB3 ▲ Composite

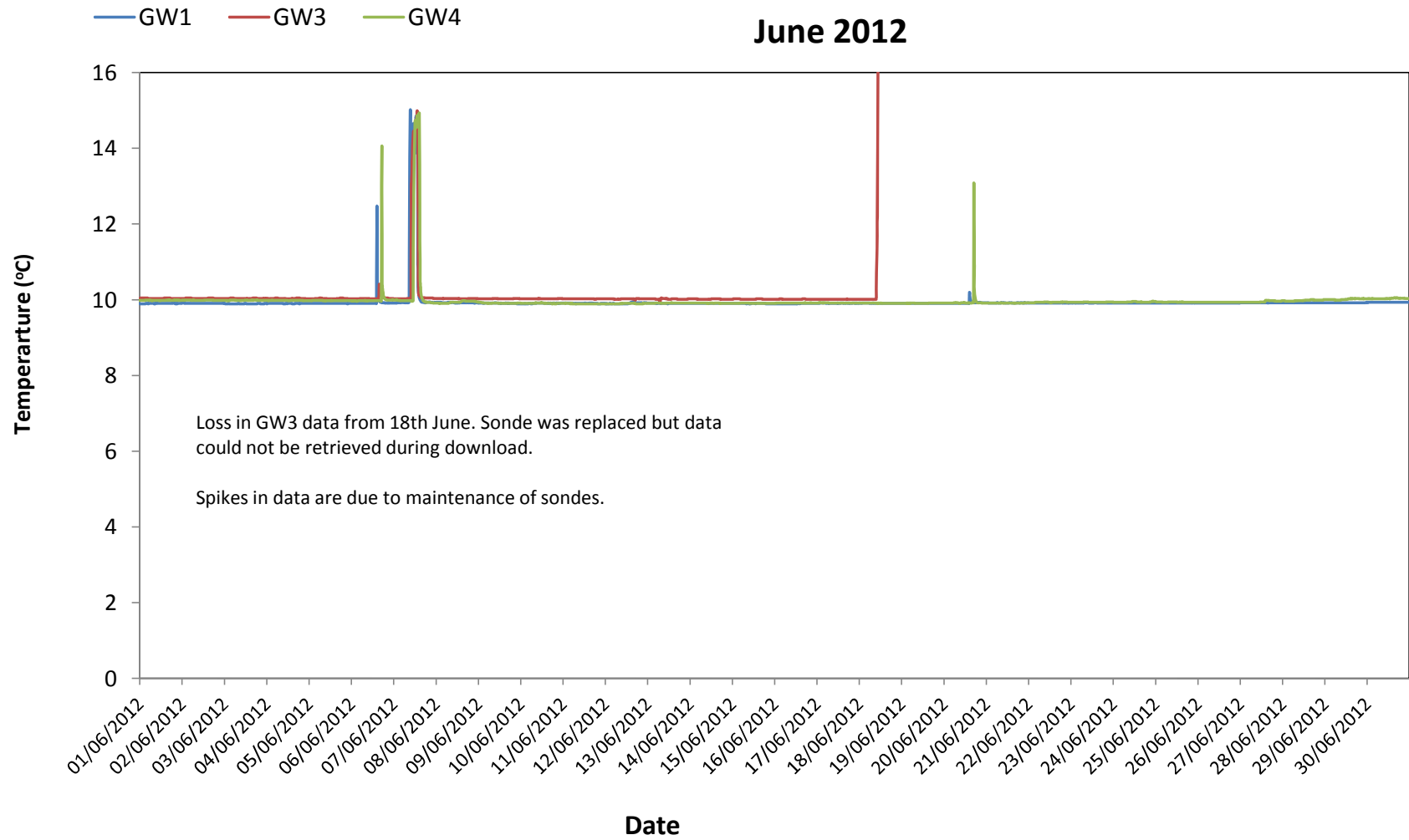
Turbidity - Surface Water Discharge

June 2012



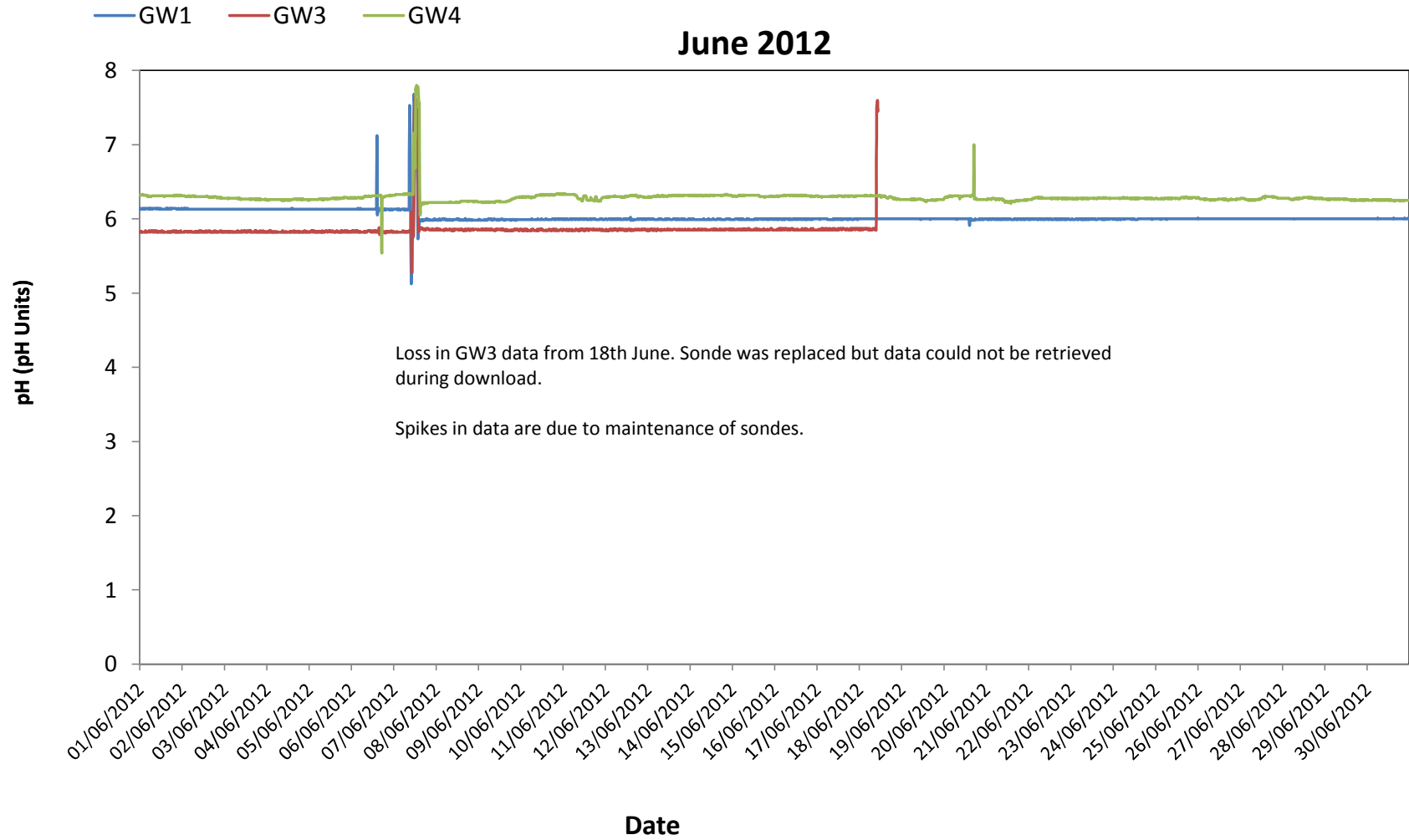


Temperature - Groundwater June 2012



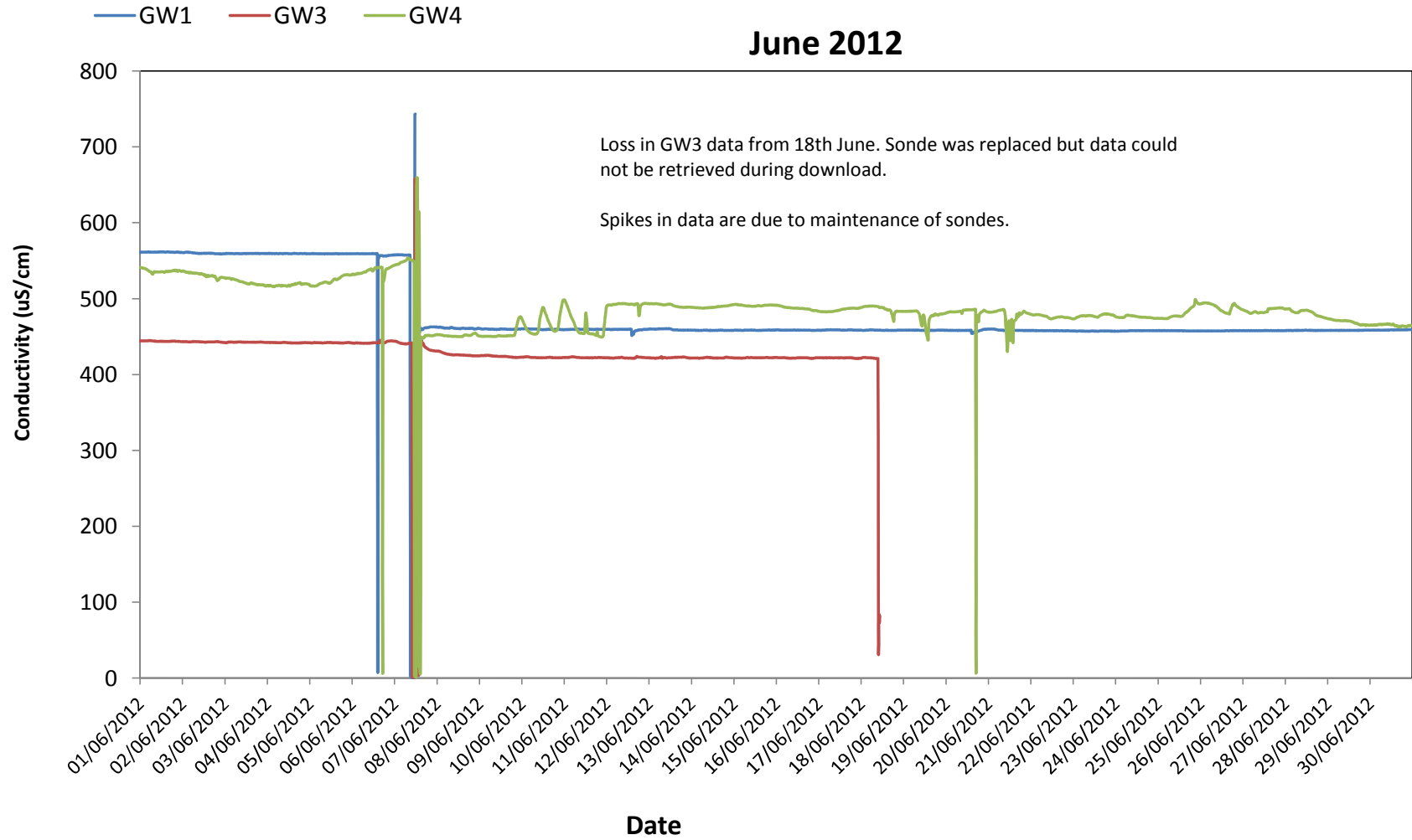
pH - Groundwater

June 2012



Conductivity - Groundwater

June 2012



Appendix 1

Appendix 1: Surface Water Monitoring Record Sheet- Onsite Monitoring						
	Date	Temp	DO	Cond.	Turbidity	pH
		oC	% Sat	µS/cm	NTU	pH units
Grab samples						
DL 2	01/06/2012	21.2	97.8	510	1.0	7.0
DL 2	04/06/2012	Bank Holiday				
DL 2	05/06/2012	14.1	57.3	556	1.1	6.9
DL 2	06/06/2012	14.8	55.0	540	1.7	6.7
DL 2	07/06/2012	14.2	80.7	566	6.6	6.8
DL 2	08/06/2012	17.7	102.2	385	13.3	7.1
DL 2	11/06/2012	13.5	87.3	387	2.5	6.3
DL 2	12/06/2012	12.6	80.5	393	3.2	7.0
DL 2	13/06/2012	14.0	89.3	488	3.0	7.0
DL 2	14/06/2012	15.0	92.1	369	1.3	7.2
DL 2	15/06/2012	15.4	104.1	455	3.4	6.8
DL 2	18/06/2012	15.4	90.7	413	2.2	6.5
DL 2	19/06/2012	13.0	41.5	313	0.9	7.3
DL 2	20/06/2012	15.8	78.4	262	1.9	6.3
DL 2	21/06/2012	14.3	96.1	471	6.0	7.3
DL 2	22/06/2012	12.7	43.1	220	1.0	7.5
DL 2	25/06/2012	12.8	92.7	204	5.0	6.4
DL 2	26/06/2012	13.8	17.9	201	4.0	6.9
DL 2	27/06/2012	15.0	40.3	370	2.0	7.3
DL 2	28/06/2012	90.9	70.3	366	3.3	7.4
DL 2	29/06/2012	16.6	96.2	222	13.1	6.5
Sruwaddaon Bay						
Sbay 1	14/06/2012	18.2	105.3	>LOD	4.8	7.3
Sbay 3	14/06/2012	18.5	102.6	>LOD	3.6	7.7
Sbay 4	14/06/2012	18.7	99.3	>LOD	8.3	8.0
Sbay 6	14/06/2012	18.0	97.2	>LOD	2.8	7.8
	= Indicative Only					
I.P.	= In Progress					
< LOD	= Below Limit of Detection					
> LOD	= Above Limit of Detection					

Appendix 2

1. MONITORING PERIOD

This report is in respect of ecological monitoring activities undertaken during June 2012. These included:

- Site inspections at the Aughooose and Glengad construction compounds;
- Site inspections of the pipeline route to the north and south of RDX1;
- Visual inspection of the “190m” at Aughooose
- Ongoing weekly bird monitoring of the Sruwaddacon Bay area and onshore pipeline area in general;
- Faunal monitoring surveys
- Ongoing checks at known faunal burrows at Glengad;
- Inspection of a land drain at Glengad in the southern part of the field in which SC2 will be located.

2. AUGHOOSE SITE INSPECTIONS

A walkover inspection of the compound was undertaken by the Project Ecologist and her associate faunal specialist, in the company of SEPIL's site Environmental Advisor on 13th June. The implementation and effectiveness of ecological mitigation was examined and notes made for comparison with previous site visits. The main purpose in June was to:

- Inspect the condition of the stored surface vegetation layer in the peat storage areas, in particular to re-assess the need for watering during dry weather.
- Check the avian and non-avian mitigation measures, including: fencing, screening and wildlife proofing on the perimeter security fence, settlement ponds and silt traps covers.

In addition to the main site inspection, inspections of the exterior of the perimeter fence were made during the weekly bird survey visits in June with regard to faunal (avian and non-avian) mitigation measures.

The findings of site inspections were discussed with site Environmental Advisers and the wildlife log was also inspected..

2.1 Peat storage areas - vegetation layer

During the site inspection on 13th June it was noted that vegetation growth had continued to increase and that regular watering during dry periods, together with recent rain had improved the condition of the turves.

A further inspection of the peat storage areas was undertaken by the project ecologist's associate vegetation specialist on 19th June. The condition of vegetation of the turves on top of the stored peat was found to be generally good. The species showing most growth and greatest cover were: *Schoenus nigricans* (Black bog-rush), *Tricophorum cespitosum* (Deer Sedge), and *Molinia caerulea* (Purple Moor-grass), with a less frequent cover of *Calluna vulgaris* (Ling), *Erica tetralix* (Cross-leaved Heath) and *Eriophorum* spp. (Cotton-grass species). It was noted that the cover of the invasive native species *Juncus effusus* (Soft Rush) is very low at present and is largely confined to the drier side slopes of the peat storage area.

2.2 Pipe stringing area

The condition of the remaining vegetation in the pipe stringing area was inspected in relation to further turving. Whilst approximately 50% of the area has been stripped of surface vegetation already, the remaining areas still retain a good cover of vegetation which will be available for turving, though the quality of this is quite variable in terms of condition and species content.

2.2 Non-avian fauna

The mammal-proof fencing around the compound is generally acceptable, though it was noted that there were potential weaknesses where the mesh has been stretched at some locations providing gaps greater than the recommended 50mm in a few places (up to c. 70mm). Means of improvements were suggested and are being implemented.

3. GLENGAD SITE INSPECTIONS

A detailed walkover inspection of the compound (interior and exterior) was undertaken by the Project Ecologist and her associate faunal specialist, in the company of SEPIL's site Environmental Advisor on 13th June. The purpose of the site inspection was to:

- Check the condition of the soil stock piles;
- Check that faunal (avian and non-avian) mitigation measures are being correctly implemented;
- Conduct a general inspection in relation to the condition of adjacent SAC grassland habitat to the north of fenceline;
- Check known faunal burrows in the vicinity of the compounds for evidence of activity.
- Inspect a land drain (at the southern end of the field in which SC2 will be located) for potential faunal usage.

Additional site inspections in relation to the following were undertaken on behalf of the project ecologist by associate specialists, including those undertaken during weekly bird surveys as follows:

- Check on the exterior of the compound fencing and observations of faunal, tracks and signs

- Check of known mammal burrows at Glengad
- Weekly check that mammal gates are kept open.

3.1 SAC Habitats at Glengad

While no change in habitat quality or condition was noted in respect of adjacent SAC habitats during the site inspection on 13th June, it was decided to set up permanent quadrats in the lea of the fence on the northern side of the temporary working area to monitor in case of any shading and edge effects. This was undertaken on 18th June by the project ecologist's associate vegetation specialist, when nine quadrats were recorded using the DOMIN method.

Also on 18th June, a visual inspection of the condition of coastal cSAC habitats (soft cliff and embryonic dunes) was carried out.

3.2 Non-avian fauna

On 13th June the mammal-proof fencing, and other wildlife mitigation measures, at the compound area at Glengad were reviewed by an inspection of the periphery. Inspection findings were as follows:

- Mammal proofing had not yet been completed. Methodology was discussed and advice given on the measures to be taken as soon as possible.
 - An Irish hare was observed in SC1 during the site inspection, others having been sighted within the compound and wayleave temporary working areas previously.
 - Mammal gates in the wayleave and access road fencing were open with the exception of one had been temporarily closed prior to the site visit in order to prevent a lamb from entering the site.
 - Fencing provisions to prevent mammals entering settlement ponds were discussed on site.
- The mammal burrows at the gully just to the west of the TWA were inspected. This burrow system has been in occasional use by badgers. In June, the entrances remained open, but suggested no recent activity by badgers or otters (over the few days prior to the survey). Continued regular monitoring of mammal utilisation of these burrows will remain a priority as to evaluation of mammal activity in this area. It should be noted that observations to date have concluded that mammal activity at these burrows has been intermittent.

4. ONSHORE PIPELINE INSPECTION

A walkover inspection of the route through the forested sections to the north and south of RDX1 was undertaken by the Project Ecologist in the company of her faunal specialist associate and a SEPIL Environmental Adviser on 13th June. The '190m' was visually inspected from the western end of the bog mat road in the context of forthcoming works in relation to the erection of additional poles for the ESB power line.

It was noted that the area had been appropriately cleared of vegetation, the cut vegetation had been dealt with, and that surface water management mitigation measures were in place, including at the crossing of a head stream of the Leenamore River. Cut stumps of *Rhododendron* were being treated by specialists to prevent re-growth.

Walkovers of the pipeline wayleave were also undertaken during bird surveys.

5. BIRDS

5.1 Surveys

The following bird surveys were undertaken in June:

- Bay Area (HW & LW Surveys)
 - 05/06 June 2012
 - 12 June 2012 (Both HW & LW counts)
 - 20/21 June 2012
 - 27/28 June 2012
- Sand Martin Surveys
 - June 6th – boat-based survey of all colonies in study area
 - June 13th – Colony A & B and Colony C at Rinroe surveyed
 - June 21st – Glengad survey hampered by persistent rain
 - June 27th – Glengad Colony A & B
- Bellanaboy Surveys (Breeding Birds & surveys of Import Line)
 - June 12th 2012
 - June 28th 2012

5.2 Sruwaddacon Bay area – water birds and waders

The findings of the weekly low water and high water counts during June can be summarised as follows:

- June had extremely high levels of precipitation and stormy conditions offshore were reflected in the numbers of more pelagic species (e.g. Black Guillemot & Razorbill) which were recorded close to shore in Broadhaven Bay. Black-legged Kittiwake, another rarely recorded species in the study area, was observed on two occasions during June 2012.
- Comic Terns, rarely recorded in the study area were observed in small numbers in May and once again in June. Sandwich Tern numbers have remained lower than in some previous years with peak counts of <50 individuals recorded in the study area throughout the month.
- Large numbers of Shag were again noted feeding in Broadhaven Bay in June with a peak count of 73 individuals.

- Another piscivorous species, Red Breasted Merganser were especially numerous in early June with a peak number of 52 birds observed feeding off Glengad on June 5th.
- A pair of Common Sandpipers was heard calling from the grassy shore below Pullathomas Graveyard on June 28th. A single individual was recorded at this location in 2011. These birds could have bred locally or might have been early passage migrants. In 2010, a pair of Common Sandpiper bred in Count Section 6.
- Iceland Gull, was observed at Glengad on June 13th.
- A small number (1-2 pairs) of breeding Ringed Plover were also present on the shore.

5.3 Sand Martin Monitoring

Sand Martin activity was extremely low at all of the known colonies in early June. In previous years this period would mark the peak in breeding activity for the species, but in contrast, activity grew throughout the month of June. Summary:

- Colony B first confirmed as Active on June 13th.
- By June 27th there were almost 20 active burrows between Colony A & B representing a four-fold increase in activity from the previous month.
- Activity appears relatively high at Colony C, Rinroe but there has been no activity noted at Colony D (Pullathomas).
- A boat-based survey of the study area revealed low levels of activity at Colony E and at lone burrows (previously unrecorded) close to Rosspoint Pier.

5.4 Terrestrial species of note

The breeding bird survey at Bellanaboy and walkover recorded several species of elevated conservation importance including Crossbill and Spotted Flycatcher.

6. NON-AVIAN FAUNA

6.1 Surveys

The current phase of during construction and pre-construction faunal surveys had commenced in May 2012, and has continued in June, with completion being expected by the end of July.

Otter activity is being monitored on a regular basis throughout the Bay area; with otter activity being monitored by means of a search for otter spraints (faeces) and other signs, including checks on otter (or other mammal activity) at known burrows; and a continued search for additional or new burrows.

The extent and findings of the Bay surveys in June can be summarised as follows:

- Surveys included:
 - The area of the cliffs east of Glengad (along the south shore towards Pollatomish) - approximately 1km in length.

- The north shore from east of Rossport to approximately opposite Aughoose - approximately 5.5km in length.
- Otter activity observed was typical to that observed in previous surveys of these areas, with frequent signs present at the cliff areas, and relatively few signs along much of the northern shore.
- Samples of otter spraints have been collected and frozen for further analysis.

Other mammalian and amphibian/reptile species of interest are also monitored in the course of these surveys. Particular attention is being paid to areas in the vicinity of the construction compounds at Aughoose and Glengad, with sites of known interest re-inspected.

In addition to these surveys site inspections at the temporary working areas at Aughoose and Glengad were also undertaken as referred to above.

6.2 Casual Observations

During the boat-based bird survey on 6th June a pod of Bottle-nosed Dolphins was recorded, feeding approximately 500m west of Glengad in Broadhaven Bay. Other casual mammal observations made during bird surveys in June, included:

- Fresh otter tracks on the foreshore at Glengad on June 13th.
- Pine Marten droppings were recorded during a bird survey walkover of the northern section of the terminal site on June 28th.

7. LEENAMORE INLET

A vegetation survey was undertaken at the Leenamore inlet on 19th June. Eight additional quadrats were recorded as follows:

- Four in fringing salt-marsh vegetation
- Four in the intertidal area dominated by brown seaweeds.

This information will add to the existing baseline information in relation to habitats present in the inlet.

Appendix 3

Corrib Onshore Pipeline
Monthly Archaeological Report

Aughoose, Glengad and pipeline investigations

DAHG Licence Reference: 11E0214
DAHG Metal Detection Licence Reference: 11R0090

Director: James Kyle

Month Ending: 30th June 2012

COURTNEYDEERY 
Heritage Consultancy

IAC Irish Archaeological
Consultancy

1.0 General Review of Works

1.1 Works

Works commenced Monday the 25th of July 2011 at the Aughooose Compound.

Works commenced Monday the 6th of February 2012 at the Glengad Compound.

Works commenced Monday the 23rd April for the site investigation phase of the pipeline in Bellanaboy and Bellagelly townlands.

2.0 Staffing Levels

The following licenced archaeologists are present to monitor all ground breaking and excavation:

Site Director: James Kyle,
Archaeologist: David Bayley.

3.0 Areas Investigated

3.1 Aughooose

Construction works were carried out at several areas of the Aughooose site, these were monitored under archaeological supervision. These works (Figure 1) comprised:

- Bulk excavation of backfilled stone, the peat stone matrix and mineral soil (1.8m below present ground level) for the construction of the service culvert in Area 3 (Plate 1) was undertaken.
- Bulk excavation of a service pipe trench along the line of IR4, north of the Veolia plant. This involved the excavation of the overlying 1.8m of compacted backfilled stone and 0.2m of the underlying peat stone matrix (Plate 2).
- Monitoring of core piling was undertaken within the tunnel compound area on site. Piles were drilled to between 11m and 14m deep. The monitoring of the piling was limited to inspection of the excavated material as it was deposited into a series of skips (Plate 3) within the compound area. Core piling was completed on the 18th of June 2012.
- Excavation facilitating the construction of the concrete capping beam for the tunnel mouth commenced. This involved the excavation of compacted backfilled stone from around the sheet piles and as such did not impact any previously unexcavated levels (Plate 4).

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

3.2 Glengad

Construction works were carried out at several areas of the Glengad site; these were monitored under archaeological supervision. These works (Figure 2) comprised:

- The excavation of drainage slit trenches, dug to 1.2m in depth and 0.4m wide, around each of the topsoil storage piles and linking across the access road to the northern perimeter v-ditch (Plate 5).
- The excavation of topsoil (0.4-0.5m in depth) and subsoil to a depth of 2.5m below present ground level from an area measuring 8m x 8m, in the corner of the northern fence line and the site access road to facilitate the construction of a manhole in this location (Plate 6).
- The excavation of a v-ditch along the northern site perimeter, running west from the above manhole (0.8- 1m in depth) (Plate 7).
- The continuing excavation of a services trench (0.5m wide x 1m deep) (Plate 8) for power cable ducting along the western and southern sides of the site access road.
- The excavation for and subsequent installation of 3 standpipes and 2 piezometers in the LVI Compound.
- No further excavation or construction works of any kind were carried at the southern end of the access road in the vicinity of the enclosure site (MA004-015) this month. Archaeological monitoring has taken place on two separate occasions in the vicinity of this site, (Frazer 2002 and Kieran 2009)¹. No archaeological features or finds were revealed.

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

3.3 Site investigations

All site investigation works at Site Compound 2 (Sc2) were completed on Wednesday 20th of June 2012, in Glengad townland.

No archaeological features, sites or material were revealed as a result of site investigations to date.

¹ Monitoring of topsoil removal Glengad (Licence Ref. 02E0568, W. Frazer) Margaret Gowen Ltd.
Archaeological monitoring of construction works associated with the Corrib Gas Pipeline at Broadhaven Bay (Licence Ref. 09E176 and 09E177, E. Kieran) Moore Marine.

3.4 Pipeline wayleave

Pre-construction works along the pipeline wayleave commenced 28th May. All works are confined to a working corridor in a plantation forested area in Bellagelly South and Bellanaboy townlands. All excavation works are being archaeologically monitored. These works for the month of June comprised:

- The excavation of two parallel v-ditches; at the western edge of the existing stone road to a depth of 0.4m in the stone road material and to the east of the stone road, to a depth of 0.7m in peat (Plate 9) is ongoing.
- Bulk excavation of an area of peat 55m north-south x 10m east-west to a depth of 5.7m, with the subsequent construction of peat stone matrix, prior to backfilling, at the end of the existing stone road (Plate 10).

4.0 Projected Future Work and Staff

Archaeological monitoring, and where deemed necessary metal detection, will be undertaken during the construction phase of the project to determine the presence (if any) of below ground archaeological features or the presence of artefacts of an archaeological nature. This will be conducted by two licenced archaeologists, James Kyle and David Bayley, on a rotational basis between Aughooose, Glengad, Bellanaboy and Bellagelly townlands.

5.0 Reporting

The monthly report records the extent of works requiring archaeological monitoring and metal detection. In the event of archaeological material being revealed, archaeologists will record, photograph and map any new discovery. As part of the licensing requirement a final report will be completed upon the cessation of ground breaking and excavation works. This report will describe in detail the results of the archaeological monitoring programme and will be sent to the statutory authorities in accordance to the licensing agreement.

6.0 Location of Artefacts and Samples

To date no artefacts or samples have been retrieved from Aughooose, Glengad, Ballinaboy or Bellagelly townlands where investigations have occurred.

7.0 Information any Unforeseen Difficulties

N/A

8.0 Health and Safety Issues

Both on-site archaeologists have been inducted after receiving the requisite conflict management training and manual handling training.

Summary

Nothing of an archaeological significance has been uncovered as a result of monitoring or metal detection of materials excavated from construction works for the Corrib on-shore pipeline project to date.



Plate 1 Aughooose: Excavation for service culvert in Area 3, facing east.



Plate 2 Aughooose: Bulk excavation of services trench facing south.



Plate 3 Aughooose: Excavated material from core piling from compound, facing south.



Plate 4 Aughooose: Excavation of material from around sheet piles, tunnel compound, facing east.



Plate 5 Glengad: Drainage around topsoil heaps, facing northwest.



Plate 6 Glengad: Excavation of drainage manhole, facing north.



Plate 7 Glengad: V-Ditch excavation along northern site perimeter, facing west.



Plate 8 Glengad: Excavation of services ducting, facing west.



Plate 9: Pipeline wayleave: eastern V-ditch, facing south.



Plate 10 Pipeline wayleave: Excavation of stone road trial pits, facing west.

