

Corrib Gas Development

Report for PMC Meeting Dated 8th November 2006

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Water Quality – Carrowmore Lake

- Mayo County Council's Project Team have continued to monitor the surface waters in and around the Bellanaboy site. Summaries of the most recent verified results are attached.
- The results show that in the last monitoring period the discharge of surface water from the Terminal Site has had no adverse impact on the water quality of the Bellanaboy River and Carrowmore Lake or on the quality of drinking water produced at the Erris Regional Water Supply Scheme at Barnatra.

Environmental Issues at the Bellanaboy Site

- Access to the Bellanaboy site has been uninterrupted since the last meeting of the PMC.
- The quantity of cloudy water in the excavated area of the terminal footprint has continued to overtop into the site drainage system.
- The site drainage system discharges through the settlement ponds and the sampling point SP1 into a stream which discharges into the Bellanaboy River.
- While the overtopping of the cloudy water has continued there is no evidence yet of this overtopping having an impact on the Bellanaboy River.
- The Axonics treatment plant has continued to operate and the developer is continuing to install the larger capacity Axonics plant.

CARROWMORE LAKE

Results from 10/10/2006 to 02/11/2006 (8 samples)

(Awaiting some results)

Analysis by Complete Laboratory Solutions, Rosmuc, Co. Galway and Bord na
Mona Laboratory Newbridge, Co. Kildare

Parameter	Units	Average	Max	Min
Suspended Solids	mg/l	5	8	4
Turbidity	N.T.U	4.5	7.2	3
pH	pH units	7.4	7.6	7.1
Conductivity	uS/cm	128	146	102
Phosphate	mg/l P	0.03	0.163	0.01
Total Phosphorous	mg/l P	0.087	0.277	0.046
Ammonia	mg/l NH ₃ -N	0.02	0.03	0.013
Nitrate	mg/l NO ₃	0.44	0.44	0.44
Nitrite	mg/l NO ₂	0.018	0.019	0.017
Total Aluminium	ug/l Al	83	134	23
Chlorophyll a *	µg/dm ³	10		

*only 1 result available

ERRIS REGIONAL WATERWORKS (Final Treated Water)

Results from 10/10/2006 – 02/11/2006 (24 samples)

Analysis carried out at Erris Regional Waterworks

Parameter	Units	Average	Max	Min	Drinking Water Limits
Colour	mg/l	1.92	8	1	<10 Haz
Turbidity	N.T.U	0.2	0.23	0.16	<2.0 NTU
pH	pH units	6.78	7.10	6.47	6.5 – 8.5
Free Chlo/Res	mg/l	0.46	0.56	0.32	>0.3
Total Chlo/Res	mg/l	0.61	0.7	0.51	>0.3
Flourine	ppm	0.73	0.8	0.63	0.6-0.8
Total Aluminium	ug/l	8.84	10.6	6.2	200

BELLANABOY RIVER

(Upstream and Downstream of discharge from Terminal site)

Results from 10/10/2006 to 02/11/2006 (8 samples)

(Awaiting some results)

**Analysis by Complete Laboratory Solutions, Rosmuc, Co. Galway and Bord na
Mona Laboratory Newbridge, Co. Kildare**

Parameter	Units	BEL 1 (upstream)			BEL 2 (downstream)		
		Average	Max	Min	Average	Max	Min
Temp.	°C	13.4	14.4	12	13.4	14	12.3
Dissolved Oxygen	% Sat.	92	100	88	94	98	89
Suspended Solids	mg/l	13	29	<4	7	14	4
Turbidity	N.T.U	3.9	6	2	7.4	34	2
pH	pH units	6.8	7.6	5.9	6.8	7.4	6.1
Conductivity	uS/cm	118	191	64	116	192	68
Total Dissolved Solids	mg/l	101	134	37	109	164	39
Phosphate Total	mg/l P	0.04	0.06	0.02	0.05	0.07	0.02
Phosphorus	mg/l P	0.09	0.14	0.05	0.105	0.24	0.05
Ammonia	mg/l NH ₃	0.048	0.07	0.02	0.03	0.07	0.013
Nitrate	mg/l NO ₃	0.44	0.44	0.44	0.44	0.44	0.44
Nitrite	mg/l NO ₂	0.018	0.019	0.017	0.018	0.019	0.017
Total Aluminium	ug/l Al	240	403	119	189	248	145

- *SP 1 (Discharge point from terminal site)*
No samples taken since last report
- **Axonics Water Treatment Units (Pre-treatment and Post-treatment Results)**
No samples taken since last report

Srahmore Peat Repository
 WL 0199-01

Environmental Management System Up-Date No. 18 (08/11/2006)

Environmental Monitoring:

- The Srahmore site was fully compliant regarding emissions since the last meeting (11/10/06)
- There were no complaints received at the site since the last meeting.
- There were no incidents recorded at the site since the last meeting.

Results:

Srahmore Waste Licence W199-1		Munhin River			
Month:	Date	Up/Stream		D/Stream	
		SS (mg/l)	Ammonia (mg/l)	SS (mg/l)	Ammonia (mg/l)
Jan	09/01/2006	4	0.029	<4	0.009
Feb	06/02/2006	<4	0.008	<4	0.018
March	06/03/2006	<4	0.005	23	0.023
April	03/04/2006	7	0.013	9	0.011
May	08/05/2006	<4	0.008	4	0.008
June	05/06/2006	<4	0.015	<4	0.015
July	03/07/2006	5	<.005	6	0.097
Aug	06/08/2006	5	0.008	<4	<.005
Sept	04/09/2006	6	0.006	<4	0.02
Oct	02/10/2006	<4	0.014	<4	0.024
Nov	06/11/2006		0.025		0.033
Dec					

Emission Points:

SW4 <4 – 4mg/l Suspended Solids
 SW100 <4 mg/l SS (Quarterly)
 SW101 <4 mg/l SS (Quarterly)

END.

Bellanaboy Bridge Site

Report to The Project Monitoring Committee

8th November 2006

Works Undertaken

The following construction operations are ongoing;

- Environmental Monitoring.
- Operation of Axonics unit.
- Geotechnical monitoring.
- Construction and fit out of Axonics Shed and site generator.
- Perimeter site and palisade fencing.
- Bored piling.
- Blinding on E-W access road.
- Construction of North South access road concrete slab.
- Installation of sheet pile support berm.

Outlook From November 2006 Onwards

- Continuation of monitoring and construction operations.
- Installation of Axonics plant.

ENVIRONMENTAL REPORT

Dust – The results for the monitoring period October 2006 at the monitoring locations (D1, D2, D3 and D4) were 309, 60, 1061 and 23 mg per m² per day averaged over a 30 day period. All values, with the exception of D3, were below the 350 mg per m² per day limit. The value for D3 is considered unusual in that there were no construction activities on site during the monitoring period. The elevated value may have been due to an external source unrelated to site activities.

Fuel – Approximately 14.2 m³ of fuel was delivered to site in October.

Noise – No noise monitoring results are available for the reporting period however noise monitoring has since commenced and results are expected to be available for the next reporting period.

Vibration monitoring – No vibration monitoring results are available for the reporting period however vibration monitoring has since commenced and results are expected to be available for the next reporting period.

Traffic – There have been approximately 885 HGV movements since works recommenced at the site in October.

Waste – Two skip of domestic refuse (canteen waste, etc.) and 1 skip of timber waste were removed off site during October. There was one shipment of hazardous waste (oily materials) of 3.5 m³. The effluent holding tanks were emptied of approximately 170.5 m³ during October. Approximately 2.9 m³ were removed from the on site portaloos in the same period.

Water Quality – All monitoring and sampling locations were accessible for download, recalibration and reinstallation during the month of October.

A summary of the main surfacewater parameters measured for grab sampling during October 2006 at SP1 is presented below;

pH (pH Units)

6.60 to 7.97

Suspended Solids (mg/l)

<3 to <4

Phosphate (ug/l P)

10 to 20

Conductivity (uS/cm)

131 to 214

Turbidity (NTU)

3.0 to 57.0

Nitrate (mg/l NO3)

<0.196 to 0.2

Groundwater samples were taken and borehole monitoring equipment was downloaded for the month of October. A summary of the main groundwater parameters measured (range of lowest to highest) follows:

pH

5.8 – 6.8

Conductivity (uS/cm)

238 - 660

Nitrate (mg/l NO3)

<0.196 – 24.3

Phosphate (mg/l P)

0.020 – 8.62

Total Dissolved Solids (mg/l)

159 - 440

Complaints – There were no construction activity related complaints logged with either SEPIL or RBL during the month of October.

Incidents – There were two notifications to Mayo County Council during the reporting period.

Both related to minor fuel spillages on site and in both cases all fuel was fully contained and removed for off site hazardous waste disposal.

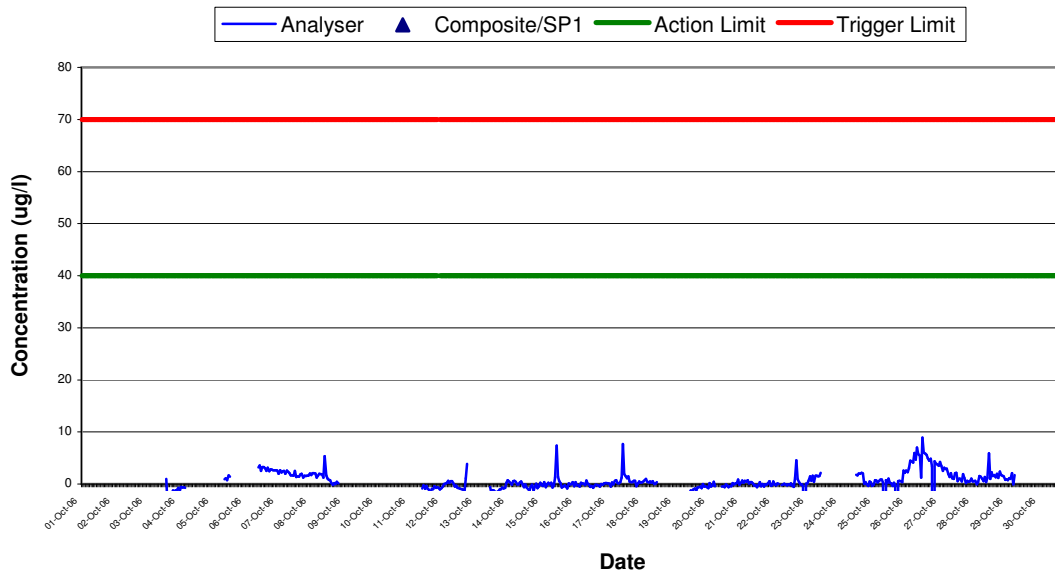
Exceedances

There was one exceedance at SP1 on 24th October; a value of 232 ug/l of Total Aluminum against a limit of 200 ug/l. The result coincided with a storm rainfall event of 23mm rain over 12 hours on 24th Oct. and indications are that it was a once off occurrence.

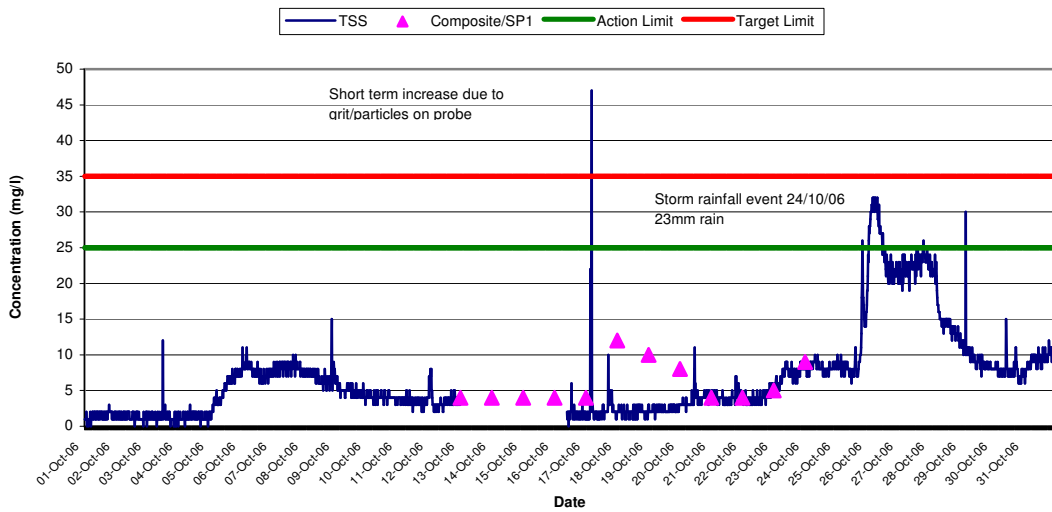
Necessary Environmental Works

- Expansion of Axonics unit.
- Continuous drainage maintenance.
- Continuous operation of on-site surface water treatment plant.
- Remove of all waste and effluent from site on an as needs basis.
- Inspect, repair (when required) and recalibrate all in situ monitoring equipment.
- Monitor/sample and download water (surface and ground) quality monitoring devices.

**Orthophosphate Results,
at SP1 and the composite sampler
October 2006**



**Total Suspended Solids Results,
at SP1 for October 2006**



**Turbidity Results,
at SP1 for October 2006**

