

Corrib Gas Development

Report for PMC Meeting Dated 11th October 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 restored since Tuesday 3rd October 2006.
- The quantity of cloudy water in the excavated area of the terminal footprint has built up since the last PMC meeting and there has been overtopping of this water 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 resumed 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 has commenced work on the installation of the larger capacity Axonics plant.

CARROWMORE LAKE

Results from 11 /09/2006 to 09/10/2006 (13 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	4.8	6	4
Turbidity	N.T.U	5.3	7.2	4
pH	pH units	7.4	8	7.1
Conductivity	uS/cm	131	142	102
Phosphate	mg/l P	0.061	0.163	0.01
Total Phosphorous	mg/l P	0.093	0.27	0.01
Ammonia	mg/l NH ₃ -N	0.018	0.03	0.005
Nitrate	mg/l NO ₃	0.44	0.2	0.44
Nitrite	mg/l NO ₂	0.017	0.02	0.017
Dissolved Aluminium	ug/l Al	34	50	19
Total Aluminium	ug/l Al	36	80	8
Chlorophyll a	µg/dm ³	10.3	10.3	10.3

ERRIS REGIONAL WATERWORKS (Final Treated Water)

Results from 11/09/2006 – 9/10/2006 (29 samples)

Analysis carried out at Erris Regional Waterworks

Parameter	Units	Average	Max	Min	Drinking Water Limits
Colour	mg/l	3.23	8.00	0	<10 Haz
Turbidity	N.T.U	0.28	0.45	0.16	<2.0 NTU
pH	pH units	6.82	7.09	6.21	6.5 – 8.5
Free Chlo/Res	mg/l	0.47	0.67	0.32	>0.3
Total Chlo/Res	mg/l	0.61	0.75	0.45	>0.3
Flourine	ppm	0.71	0.82	0.60	0.6-0.8
Total Aluminium	ug/l	8.58	11.9	6.90	200

BELLANABOY RIVER
(Upstream and Downstream of discharge from Terminal site)
Results from 11/09/2006 to 09/10/2006 (12 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	14.6	16.1	13.7	14.7	16	13.7
Dissolved Oxygen	% Sat.	88	93	85	89	93	85
Suspended Solids	mg/l	5.85	9	4	5	7	4
Turbidity	N.T.U	4.1	5.7	2.6	3.7	6	2
pH	pH units	6.67	7.3	5.9	6.5	7.4	5
Conductivity	uS/cm	128	201	64	144	206	68
Total Dissolved Solids	mg/l	97	208	37	109	184	39
Phosphate	mg/l P	0.047	0.05	0.02	0.05	0.069	0.033
Total Phosphorus	mg/l P	0.07	0.1	0.054	0.08	0.11	0.05
Ammonia	mg/l NH ₃	0.33	0.07	0.005	0.027	0.05	0.005
Nitrate	mg/l NO ₃	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44
Nitrite	mg/l NO ₂	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017
Dissolved Aluminium	ug/l Al	135	160	110	130	160	100
Total Aluminium	ug/l Al	112	200	71	118	210	74

SP 1
(Discharge point from terminal site)
Results from 11/09/2006 to 09/10/2006 (0 samples)
Analysis by Complete Laboratory Solutions, Rosmuc, Co. Galway and Bord na
Mona Laboratory Newbridge, Co. Kildare

Parameter	Units	SP 1		
		Average	Max	Min
Suspended Solids	mg/l			
Turbidity	N.T.U			
pH	pH units			
Conductivity	uS/cm			
Total Dissolved Solids	mg/l			
Phosphate Total	mg/l P			
Phosphorus	mg/l P			
Ammonia	mg/l NH ₃ -N			
Nitrate	mg/l NO ₃			
Nitrite	mg/l NO ₂			
Dissolved Auminium	ug/l Al			
Total Aluminium	ug/l Al			

* No samples taken since last report

Axonics Water Treatment Units
(Pre-treatment and Post-treatment Results)
Results from 11/09/2006 to 09/10/2006 (0 samples)
(Awaiting some results)
Analysis by Complete Laboratory Solutions, Rosmuc, Co. Galway

Parameter	Units	Pre-Treatment(No samples)			Post-Treatment (2 Samples)		
		Average	Max	Min			
Suspended Solids	mg/l						
Turbidity	N.T.U						
pH	pH units						
Conductivity	uS/cm						
Total Dissolved Solids	mg/l						
Phosphate Total	mg/l P						
Phosphorus	mg/l P						
Ammonia	mg/l NH₃-N						
Nitrate	mg/l NO₃						
Nitrite	mg/l NO₂						
*Dissolved Aluminium	ug/l Al						
*Total Aluminium	ug/l Al						

* No samples taken since last report

Srahmore Peat Repository
 WL 0199-01

Environmental Management System Up-Date No. 17 (11/10/2006)

Environmental Monitoring:

- The Srahmore site was fully compliant regarding emissions since the last meeting 20/09/06)
- 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

Emission Points:

SW4 <4 – 5mg/l Suspended Solids
 SW100 <4 mg/l SS
 SW101 <4 mg/l SS

END.

Bellanaboy Bridge Site

Report to The Project Monitoring Committee

11th October 2006

Works Undertaken

- No Construction Activities carried out during the month of September.
- Environmental works continue however there were access restrictions to the site which affected monitoring works.
- The Axonics water treatment equipment was operational for part of the month but had to be shut down for a period due to site access restrictions.

Outlook From October 2006 Onwards

- Commence planned Autumn works on site in particular Axonics expansion.
- Continue with on going environmental care, monitoring and maintenance works.
- Recommence geotechnical monitoring.

ENVIRONMENTAL REPORT

Dust – The results for the monitoring period June 2006 at the monitoring locations (D1, D2, D3 and D4) were 207, 98, 23 and 97 mg per m² per day averaged over a 30 day period. All values were below the 350 mg per m² per day limit.

Fuel – Approximately 22.6 m³ were delivered to site in September.

Noise – No noise monitoring was undertaken (no construction work undertaken).

Vibration monitoring – No vibration monitoring was undertaken (no construction work undertaken).

Traffic – There were no HCV (heavy construction traffic) traffic movements on or off site during the reporting period.

Waste – One skip of domestic refuse (canteen waste, etc.) was removed off site during September. No recyclable or hazardous waste was removed. The effluent holding tanks were emptied of

approximately 1.2 m³ (268 gallons) during September. Approximately 34.1 m³ (7,500 gallons) 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 September.

Access restrictions to the site due to protestor activity impeded the continuous and grab sample monitoring programmes during the month. The Axonics unit also had to be shut down during the month due to protestor activities.

All samples taken were within their respective limits for the monitoring period and there were no exceedances.

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

pH (pH Units)

6.55 – 7.88

Suspended Solids (mg/l)

3 to 15

Phosphate (ug/l P)

<20 to 60

Conductivity (uS/cm)

180 to 294

Turbidity (NTU)

1.04 to 22.9

Nitrate (mg/l NO₃)

<0.196 to 0.4

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

pH

5.7 – 7.0

Conductivity (uS/cm)

175 - 655

Nitrate (mg/l NO₃)

<0.44 – 0.924

Phosphate (mg/l P)

0.008 – 3.50

Total Dissolved Solids (mg/l)

117 - 437

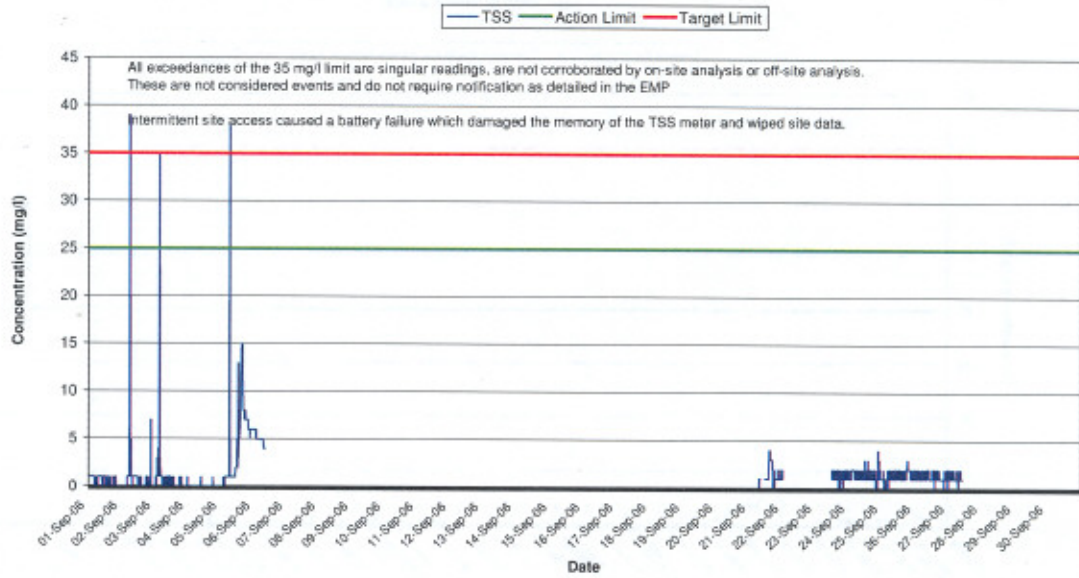
Complaints – There were no construction activity related complaints logged with either SEPIL or RBL during the month of September. Protest action at the main gates remained.

Incidents – There were no environmental notifications or exceedances during the reporting period.

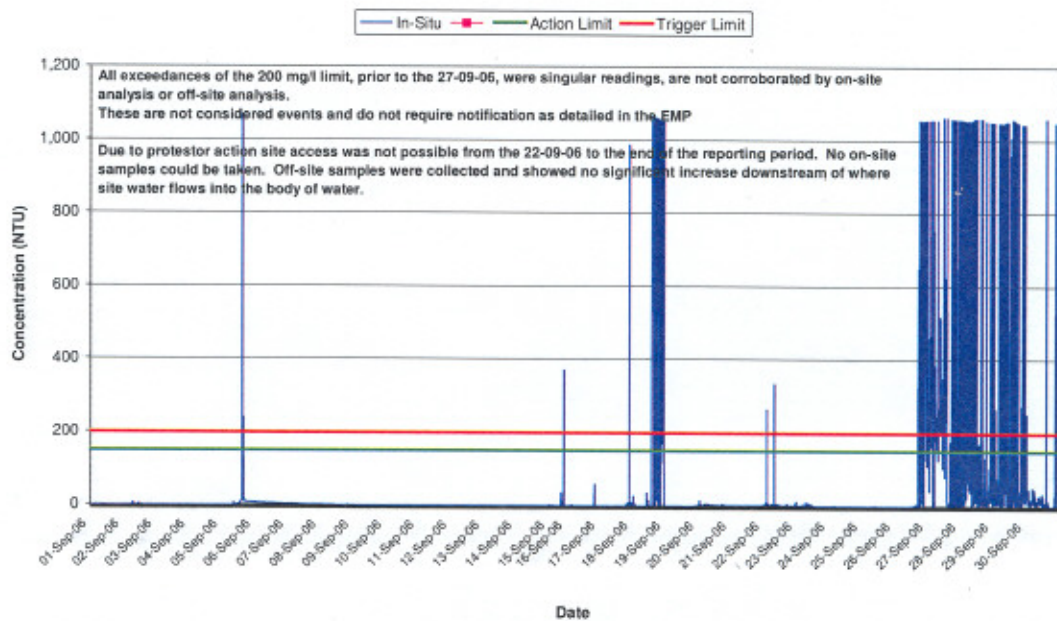
Necessary Environmental Works

- 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.

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



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



Orthophosphate Results,
at SP1 and the composite sampler
September 2006

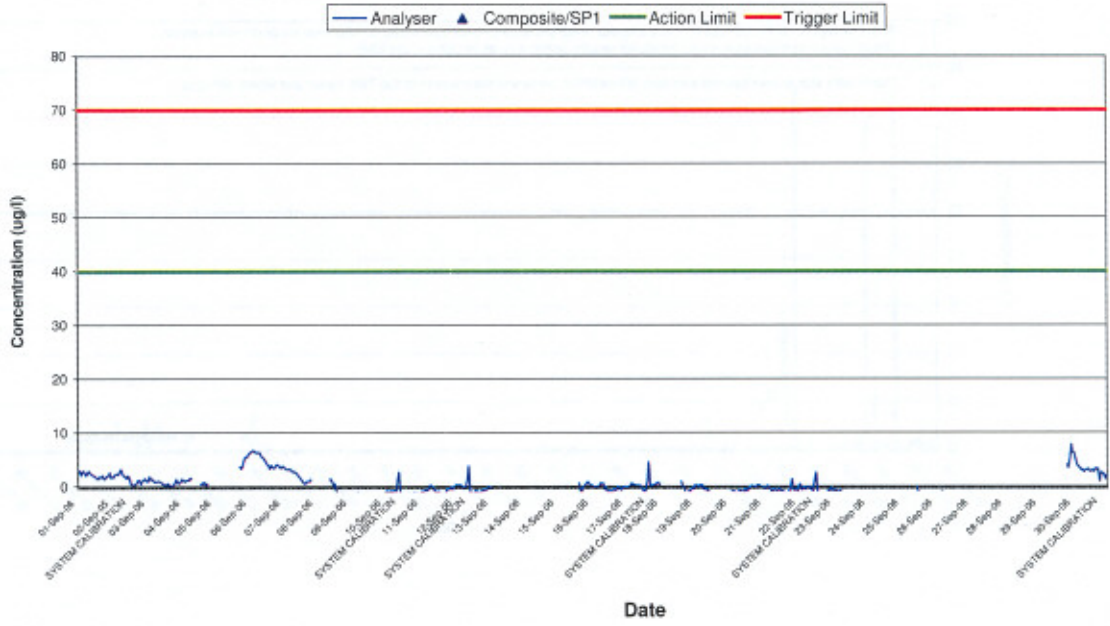




Figure No.1 View of Main Southerly Poned Area On Site



Figure No.2 View Of Slight Overland Topping Around Poned Area.



Figure No.3 View of Drain From Overtopping Area



Figure No.4 View of Settlement Lagoons



Figure No.5 View of Surfacewater Inflow To Settlement Ponds



Figure No.6 View of Outflow from Settlement Ponds