

Corrib Gas Development

Report for PMC Meeting Dated 8th June 2005

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Roads and Transportation

Roads

To date the following progress has been made;

- The remainder of the haul route on the R314 has been surface dressed.
- Installation of Safety barriers and traffic calming measures in accordance with the Safety Audit is 95% complete.
- Accommodation works for landowners along L1204 is ongoing.

In the coming month the following works are proposed;

- Completion of works in accordance with Safety Audit.
- Completion of accommodation works.

Transportation

Material being brought to the sites is being transported in accordance with the Traffic Management Plan prepared by the developer as part of the planning process. The transportation is being monitored by Mayo County Council daily.

Peat haulage from the site resumed on Monday 16th May 2005 but was suspended on Monday 30th May following three environmental incidents at the Bellanaboy terminal site.

The condition of the haul road is being monitored on a monthly basis by PMS Ltd. a Galway based road survey firm. This is in accordance with condition No.11 of An Bord Pleanála's schedule of conditions. Target tolerances for pavement condition (PCI) and surface smoothness (IRI) have been agreed between Shell E&P Ireland and Mayo County Council and intervention in the form of repairs or major works will be carried out to the haul route if these target tolerances are reached.

Bellanaboy Bridge Site

Report to the Project Monitoring Committee

08th June 2005

WORK CARRIED OUT DURING MAY

- perimeter fencing has been completed.
- construction of the brashwood windbreak is ongoing.
- main access road has been widened and piling along the main access road and the EW terminal access road is ongoing.
- construction of the concrete slabs along the main NS access road commenced.
- sheet piling around terminal perimeter and administration building base completed.
- construction of the administration building piling platform ongoing.
- R314 road widening completed.
- installation of the terminal perimeter berms commenced.
- peat export to Srahmore ongoing.
- temporary carrier drain to settlement ponds constructed.
- Work continued on both settlement ponds.

2 MONTH LOOK AHEAD

- peat excavation of the terminal footprint will continue.
- the brashwood windbreak will be completed.
- the permanent carrier drain from the terminal footprint to the settlement ponds will be constructed.
- construction of the working platform for the EW terminal access road and the administration area will be completed.
- the construction of the concrete slabs on the NS

access road and EW terminal access road will continue.

- export to Srahmore will continue
- mineral soil and rock excavation will commence
- mineral soil stabilisation will commence to prepare the fill material.

ENVIRONMENTAL REPORT

Dust – The results for the last monitoring period (01st April to 04 May) were between 07 and 23 mg m² per day averaged over a 30 day monitoring period. The Threshold level is 350 mg m² per day averaged over a 30 day monitoring period. Result for the monitoring period 04th May to 03rd June will be presented in next month's report.

Fuel – Approximately 118,500 litres of fuel was delivered to site during the last reporting period

Noise - Noise monitoring is undertaken on a daily basis on site. The measurements are taken in the vicinity of the settlement ponds and at other various locations on site and are averaged over measurement periods of varying durations. Most measurements are taken over a 12 hour monitoring period to coincide with the working hours on site. However, continuous noise monitoring is not always possible due to inclement weather. All noise levels recorded were below the threshold level of L_{Aeq} 65dB with the highest recording being L_{Aeq} 56dB at N1 on 18th May.

Traffic – There were 2275 HGV movements during the month of May.

Waste - There was 228m³ of solid non-hazardous waste generated and removed from site in the last reporting period. 100 m³ of re-cyclable material was taken off site. 220 gallons of waste oil was removed by a hazardous waste contractor. Approximately 480 gallons and 19,000 gallons of liquid waste were removed off site from the portable toilets and the waste water tanks (canteen, etc.) respectively during the month of May.

Water quality - Groundwater and surface water quality monitoring continued in May. Monthly graphical presentations for the following surface water parameters are provided:

1. pH
2. Temperature (°C)
3. Suspended solids (mg/l)
4. Phosphate (µg/l P)
5. Conductivity (mS/cm)
6. Turbidity (mg/l)

The results from other parameters are obtained from weekly grab samples and are presented as a range from lowest to highest.

Dissolved Oxygen (% Sat O₂)

64- 90

Total Ammonia (mg/l N)

0.005 – 0.051

Nitrate (mg/l NO₃)

0.1

Nitrite (mg/l NO₂)

0.005

Monthly graphical presentations for the following ground water parameters are provided:

1. pH
2. Temperature (°C)

3. Conductivity (mS/cm)

The results from other parameters are obtained from weekly grab samples and are presented as a range from lowest to highest.

Dissolved Oxygen (% Sat O₂)

26 - 60

Phosphate (mg/l PO₄)

<0.03 – 0.753

Nitrite (mg/l NO₂)

<0.017

Nitrate (mg/l NO₃)

<0.44

Total Dissolved Solids (mg/l)

<4 – 20,980

Vibration monitoring – Vibration monitoring is carried out on a daily basis by alternating the vibration meter between monitoring locations V1 and V2. Results have shown that peak displacement measurements are usually as a result of one off small vibration event that fall into the range of 0.0001mm to 17.8mm.

Complaints – There were no complaints received by site personnel or by the Bangor office.

Incidents – There were 5 environmental incidents and 1 near miss in the last month. Details of these are:

Incident No. 1: Oil Spill (of unknown origin) in a drain adjacent to the R314 on the southern side of the road. The spill material was immediately cleaned up. Oil contaminated waste generated was collected for disposal with an appropriately licenced waste handler.

Status – Closed

Incident No. 2: Oil spill from 20 litre barrel left in the footprint area. The spill material was immediately cleaned up. Oil contaminated waste generated was collected for disposal with an appropriately licenced waste handler. Tool box talk carried out to emphasise the correct handling of oil/fuel on site. As this did not have the potential to enter any water bodies this was classed as a near miss.

Status – Investigated and Closed.

Incident No. 3: During the night of 18th May the TSS meter at SP1 recorded levels that exceeded the Action limits set in the monitoring plan. The situation was discovered at 9:30am on May 19th after the TSS had been downloaded and was brought to Mayo County Councils attention at ~ 9.45am, verbal communication. The situation was monitored at intervals throughout the course of the day.

Status – Closed

Incident No. 4 There were two concurrent exceedances over the weekend of the 21-05-05. The TSS meter and the Orthophosphate analyser at SP1 recorded levels that exceeded the Trigger limits set in the Environmental Monitoring Plan.

Water from the southern settlement pond was pumped over ground into the adjacent carrier drain. High TSS water entered the drain up-stream of SP1. The graph shows 2 pronounced spikes, these correspond to the times the pumps were activated, once on Friday and once on Monday.

The Orthophosphate concentration recorded was at least an order of magnitude higher than normally recorded, and may be attributed to rock phosphate binding to the uprooted trees that form the wind break being exposed to the elements.

Status – Under Investigation

Incident No. 5: On the 24-05-05 from 13.30 till 03.45 on the 25-03-05 the water quality on site was in the range of 25 to 30 mg/l, this exceeded the

action limits on site. After 03.45 there was a marked increase in the suspended solids leaving site, the trigger levels were exceeded at 07:30. Heavy rain began at 03:00 and it has rained almost continuously throughout the day which exacerbated the situation.

Status - Closed (but remedial works continuing)

Incident No. 6: At approximately 1.45am on 03-06-05 a TSS exceedance was recorded by the automated logger at the primary monitoring point (SP1) when the pond level reached the spillway and the pond began discharging. This exceedance has been tracked to suspended solids from the southern settlement pond which began overflowing during the course of the early morning on 03-06-05. During the course of the day TSS levels were seen to fall gradually.

Status – Closed (but remedial works continuing)

Srahmore Peat Repository
WL 199-1

Environmental Management System Up-Date No. 5 (08/06/05)

- Training for an oil spill response crew was provided by SSI Environmental Ltd, on the 19/05/05. This covered procedures for dealing with oil/diesel spills.
- Exceedance in the Emission Limit Value (ELV) associated with the composite sampler located at SW4 (Location 7). Suspended solids result of 71, 49 & 71 mg/l for the 26/27/28 May. The results for the month before showed all results to be compliant as specified by Condition 4 of Waste Licence W199-1. A Corrective Action Report was submitted to the EPA (SR-CA 003), with copies forwarded to Mayo Co Council & North Western Regional Fisheries Board. Corrective action included closing off the swale to provide extra storage, and pumping excess water into the controlled overflow area, during high rainfall events.
- Exceedance in the Emission Limit Value (ELV) associated with S5-2 (SW101). Suspended solids results of 72 mg/l for the weekly grab sample of 30/05/05. Gates have been installed at this location, and it was sampled on Monday last. Indications are that it is compliant with the ELV.

Srahmore Storage Capacity

Delivered Tonnes Total

10.0%

44,957

		Date	Total Tonnes
Week 1	Mon.	18/04/2005	1,382
	Tue.	19/04/2005	2,183
	Wed	20/04/2005	946
	Thu	21/04/2005	1,237
	Fri	22/04/2005	2,498
	Sat	23/04/2005	0
			8,245
Week 2	Mon.	25/04/2005	1,363
			1,363
Week 3	Mon.	02/05/2005	No Peat
			0
Week 4	Mon	09/05/2005	No Peat
			0
Week 5	Mon.	18/05/2005	127
	Tue.	19/05/2005	2,170
	Wed	20/05/2005	2,850
	Thu	21/05/2005	3,347
	Fri	22/05/2005	3,592
	Sat	23/05/2005	1,749
			13,835
Week 6	Mon.	23/05/2005	3,835
	Tue.	24/05/2005	3,923
	Wed	25/05/2005	4,194
	Thu	26/05/2005	3,779
	Fri	27/05/2005	3,360
	Sat	28/05/2005	No Peat
			19,091
Week 7	Mon.	30/05/2005	2,423
	Tue.	31/05/2005	No Peat
	Wed	01/06/2005	No Peat
	Thu	02/06/2005	No Peat
	Fri	03/06/2005	No Peat
	Sat	04/06/2005	No Peat
			2,423
Week 8	Mon.	06/05/2005	B.H.
	Tue.	07/05/2005	No Peat
	Wed	08/05/2005	No Peat
	Thu	09/05/2005	
	Fri	10/05/2005	
	Sat	11/05/2005	

SRAHMORE SITE
Report to Project Monitoring Committee
WEEK No. 24

From: 11th May 2005

To: 8th June 2005

1. KEY HIGHLIGHTS

The following operations are **ongoing**:

- Environmental Controls.
- Deposition suspended.

2. RESOURCE USAGE

PERSONNEL:

BnM (Support)	8	General Operatives	6	Security	4
BnM (Engineering)	2	Fitters	5	Environmental	1
Head Offices Staff	2	Electricians	1	Archaeological	-
Site Offices Staff	2	Site Supervisors	4	Canteen	1
Drivers	80	Contractors			

TOTAL EMPLOYED 116

OPERATIONS DIESEL USAGE:

Date	Qty Delivered (litres)
11/05/2005	3491
20/05/2005	4160
23/05/2005	7590
24/05/2005	2031
26/05/2005	5521
30/05/2005	6006
31/05/2005	2638
07/05/2005	6353
Period total	37,790
Activities Total	94,148

3. PROJECT PROGRESS

- 44,957 tonnes delivered to Srahmore site.