

# 1 Monitoring Data

**Note:**

***No site personnel have been allowed to access the site.***

## 1.1 Rainfall Data

As there is currently no access to site, the on-site weather station data could not be downloaded.

The weather data below is for the Met Eireann weather station at Belmullet.

- Total rainfall was 22.5 mm.
- The temperature ranged from 9.7 to 24.5°C

## 1.2 Summary

Environment	Comments
Surface Water	<p>As there is currently no access to site:</p> <ul style="list-style-type: none"> <li>• In-situ monitoring equipment could not be downloaded.</li> <li>• Water samples at designated monitoring points could not be taken for issue to the laboratory.</li> </ul>
Surface Water Additional	<p>As the site is currently in accessible 4 No. monitoring points have been selected off site. 2 No. are in the drain adjacent to the R314 into which site run-off flows (OS1 &amp; 2) and the remaining 2 No. are up and down stream, respectively, of where the R314 drain accesses the Bellanaboy River (OS3 &amp; 4).</p> <p>Samples are collected on a daily basis for analysis at the accredited lab.</p> <p>The first set of results showed an exceedance in action level for Orthophosphate at OS1. However OS3 (upstream) exceeded the trigger level for the same parameter and OS4 (down stream) exceeded the action level. However it is important to note that OS1 and OS2 are not part of the main site drainage system and do not pass through the settlement ponds. All other parameters were below the limits set.</p>
Groundwater	<p>As there is currently no access to site:</p> <ul style="list-style-type: none"> <li>• In-situ monitoring equipment could not be downloaded.</li> <li>• Water samples at designated monitoring points could not be taken for issue to the laboratory.</li> </ul>
Noise	
Vibration	
Dust	No dust monitoring is currently being carried out.

Weekly Environmental Report - Status    Week Ending:    Thur. 8<sup>th</sup> September 2005

Generated By:            Sandra Barber

Checked By:             Leslie Finnegan

## **2   Environmental Incidents/Near misses/Complaints**

There is no way of knowing what if any environmental incidents have occurred during the reporting period.

Surface Water Monitoring Record Sheet													no... 1 of 1	
Conducted by								Approved by						
Name: Leslie Finnegan					Signed			Name Leslie Finnegan					Signed	
Determinant Results														
	Date	Cond. µS/cm	Temp °C	Turbidity NTU	DO % Sat	TSS mg l <sup>-1</sup>	pH	Ortho-phosphate as P µg l <sup>-1</sup>	Nitrate as N mg l <sup>-1</sup>	Total Phosphorus as P (sw) mg l <sup>-1</sup>	Ammonia as NH <sub>3</sub> -N mg l <sup>-1</sup>	Ammonium as NH <sub>4</sub> mg l <sup>-1</sup>	Nitrite as N mg l <sup>-1</sup>	Comments
<b>Action Limits</b>		<b>400</b>		<b>150</b>		<b>25</b>	<b>&lt;3.5 or &gt;7.5</b>	<b>40</b>			<b>0.2</b>			
<b>Target Limits</b>		<b>500</b>		<b>200</b>		<b>35</b>	<b>&lt;3 or &gt;8</b>	<b>70</b>			<b>0.5</b>			
<b>Settlement Pond Monitoring</b>														
<b>Additional Surface Water Monitoring</b>														
OS1 - Lab	05-Sep-05	194		3.8		<4	6.8	55	<0.1	0.055	0.039	0.05	<0.005	
OS2 - Lab	05-Sep-05	248		2.2		4	6.7	33	<0.1	0.073	0.025	0.033	<0.005	
OS3 - Lab	05-Sep-05	277		4.4		<4	6.7	133	<0.1	0.17	0.031	0.04	<0.005	
OS4 - Lab	05-Sep-05	18.5		5		<4	6.8	48	0.138	0.072	0.035	0.045	<0.005	

Note: LAB - Carried out by CLS Laboratories  
 Grey shaded areas denote parameters that cannot be analysed on-site or the lab.  
 Results detailed above are from on site grab samples only

Groundwater Monitoring Record Sheet											no... 1 of 1		
Conducted by						Approved by							
Name: Leslie Finnegan			Signed			Name Leslie Finnegan			Signed				
Determinant Results													
Location	Date	Cond. uS/cm	Temp °C	BOD mg l <sup>-1</sup>	DO % Sat	TSS mg l <sup>-1</sup>	Phosphate as P ug l <sup>-1</sup>	pH	Total Hardness mg/l CaCO3	Nitrite as NO <sub>2</sub> mg l <sup>-1</sup>	Nitrate as NO <sub>3</sub> mg l <sup>-1</sup>	Phosphate as PO <sub>4</sub> mg l <sup>-1</sup>	Ammonia mg l <sup>-1</sup>
MP 1													
MP 2													
MP 3													
MP 4													
MP 5													
MP 6													
MP 7													
MP 8													
MP 9													
MP 10a													
MEL BR4a													

Location	Date	TDS mg l <sup>-1</sup>	Arsenic ug l <sup>-1</sup>	Mercury ug l <sup>-1</sup>	Lead ug l <sup>-1</sup>	Aluminium ug l <sup>-1</sup>	Zinc ug l <sup>-1</sup>	Chromium ug l <sup>-1</sup>	Copper ug l <sup>-1</sup>	Cadmium ug l <sup>-1</sup>	Iron ug l <sup>-1</sup>	Tin ug l <sup>-1</sup>	
MP 1													
MP 2													
MP 3													
MP 4													
MP 5													
MP 6													
MP 7													
MP 8													
MP 9													
MP 10a													
MEL BR4a													

Note: Results detailed above are from on site grab samples only. Data recorded continuously is shown on the following graphs  
 Graphs provided for MP1, MP2,MP4, MP6 and MP7 for: Temperature, Conductivity, and pH.



Dust Monitoring Record Sheet				no... 1 of 1			
Conducted by			Approved by				
Name: Leslie Finnegan		Signed		Name: Leslie Finnegan		Signed	
Determinant Results							
	Date Positioned	Date Removed	Ref. Number	Date Dispatched	Date Returned	Weight (mg/sq.m/day)	Comments
<b>Target (Consent) Limit: 350 mg m<sup>2</sup> d<sup>-1</sup> on as a 30 day average</b>							
D1	31/01/2005	02/03/2005	59793	02/03/2005	24/03/2005	36	
D2	31/01/2005	02/03/2005	59794	02/03/2005	24/03/2005	10	
D3	31/01/2005	02/03/2005	59795	02/03/2005	24/03/2005	25	
D4	31/01/2005	02/03/2005	59796	02/03/2005	24/03/2005	22	
D1	02/03/2005	01/04/2005	61907	01/04/2005	08/04/2005	15	
D2	02/03/2005	01/04/2005	61908	01/04/2005	08/04/2005	15	
D3	02/03/2005	01/04/2005	61909	01/04/2005	08/04/2005	16	
D4	02/03/2005	01/04/2005	61910	01/04/2005	08/04/2005	14	
D1	01/04/2005	04/05/2005	64400	04/05/2005	09/05/2005	9	
D2	01/04/2005	04/05/2005	64401	04/05/2005	09/05/2005	23	
D3	01/04/2005	04/05/2005	64402	04/05/2005	09/05/2005	16	
D4	01/04/2005	04/05/2005	64403	04/05/2005	09/05/2005	7	
D1	04/05/2005	07/06/2005	67524	07/06/2005	10/06/2006	49	
D2	04/05/2005	07/06/2005	67525	07/06/2005	10/06/2006	29	
D3	04/05/2005	07/06/2005	67526	07/06/2005	10/06/2006	83	
D4	04/05/2005	07/06/2005	67527	07/06/2005	10/06/2006	44	
D1	07/06/2005	13/07/2005	70512	13/07/2005	18/07/2005	298	
D2	07/06/2005	13/07/2005	70513	13/07/2005	18/07/2005	354	
D3	07/06/2005	13/07/2005	70514	13/07/2005	18/07/2005	289	
D4	07/06/2005	13/07/2005	70515	13/07/2005	18/07/2005	270	
D1	13/07/2005	11/08/2005					
D2	13/07/2005	11/08/2005					
D3	13/07/2005	11/08/2005					
D4	13/07/2005	11/08/2005					

Monitoring Points are numbered clockwise through the Cardinal Marks (N, E, S, W)  
Monitoring Results will be presented monthly



Date	Rainfall	Max	Min	Sunshine
	(mm)	Temp	Temp	(hours)
26/08/2005	0.9	16.9	11.3	2
27/08/2005	0.0	17.9	11.3	4
28/08/2005	11.3	17.8	13.4	0
29/08/2005	0.0	17.6	12.3	11
30/08/2005	0.7	20.8	12.8	6
31/08/2005	3.7	16.5	10.4	0
01/09/2005	0.6	17.2	9.7	11
02/09/2005	0.4	19.5	11.6	10
03/09/2005	0.0	23.4	12.8	6
04/09/2005	0.0	24.5	14.8	2
05/09/2005	0.0	20.4	11.5	11
06/09/2005	0.3	18.9	11.5	3
07/09/2005	4.3	17.3	14.1	0
08/09/2005	0.3	18.1	13.7	2
	22.5	24.5	9.7	