**CORRIB GAS DEVELOPMENT**

**Report for Project Monitoring Committee (Terminal) Meeting on 9th July 2014.**

**Prepared by Mr. Padraic Walsh, Senior Engineer,**

**Project Manager for Mayo County Council.**

**Water Quality – Carrowmore Lake**

* Mayo County Council’s Project Team has continued to monitor the surface waters in and around the Bellanaboy site. Summaries of the most recent verified results are attached, which are available on Mayo County Council Website [www.mayococo.ie](http://www.mayococo.ie).
* The results show that in the last monitoring period the discharge of surface water from the Terminal Site has had no significant impact on the water quality of the Bellanaboy River and Carrowmore Lake.
* The results also show that the discharge of surface water from the Terminal Site has had no adverse impact on the quality of drinking water produced at the Erris Regional Water Supply Scheme at Barnatra.

**Environmental Issues at the Bellanaboy Site**

* Construction work at the terminal site is substantially complete and the facility is now in preservation mode. Work is ongoing on snagging and modification programmes. Works have commenced on the final reinstatement of the site. The modification works to the channel at SP1 have been completed.
* Surface water runoff from the terminal footprint, the carrier drain road and other roads outside the terminal footprint, is treated by the axonics unit prior to discharge to the site drainage system.
* Surface water monitoring undertaken by the Developer has not identified any exceedances during this reporting period.

**Community Fund**

* Works have been completed on all projects for which funding was allocated.

**Transportation/Roads**

There are no roadworks underway at present and there have been no transportation issues since the last meeting.

**CARROWMORE LAKE**

**Results for May and June 2014 (2 samples taken)**

**Analysis by Environmental Laboratory Services, Cork**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Parameter** | **Units** | **Average** | **Max** | **Min** |
| **Suspended Solids** | **mg/l** | 7 | 8 | <5 |
| **Turbidity** | **N.T.U** | 2.8 | 4.3 | 1.3 |
| **pH** | **pH units** | 7.1 | 7.1 | 7.0 |
| **Conductivity** | **uS/cm** | 120 | 127 | 113 |
| **Phosphate** | **mg/l P** | <0.009 | <0.009 | <0.009 |
| **Ammonia** | **mg/l NH3-N** | 0.04 | 0.05 | 0.04 |
| **Nitrate** | **mg/l NO3-N** | <0.12 | <0.12 | <0.12 |
| **Nitrite** | **mg/l NO2-N** | <0.013 | <0.013 | <0.013 |
| **Total Aluminium** | **ug/l Al** | 71 | 101 | 41 |

**ERRIS REGIONAL WATERWORKS (Final Treated Water)**

**Results from 01/05/2014 to 30/06/2014 (61 Samples)**

**Analysis carried out at Erris Regional Waterworks**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Parameter** | **Units** | **Average** | **Max** | **Min** | **Drinking Water Limits** |
| **Colour** | **mg/l** | 0.8 | 5 | 0 | <10 Haz |
| **Turbidity** | **N.T.U** | 0.09 | 0.31 | 0.01 | <2.0 NTU |
| **pH** | **pH units** | 7.0 | 7.5 | 6.4 | 6.5 – 8.5 |
| **Free Chlo/Res** | **mg/l** | 1.3 | 1.6 | 0.8 | >0.3 |
| **Total Chlo/Res** | **mg/l** | 1.4 | 1.7 | 0.9 | >0.3 |
| **Flourine** | **ppm** | 0.7 | 0.8 | 0.6 | 0.6-0.8 |
| **Total Aluminium** | **ug/l** | 39 | 76 | 17 | 200 |

## BELLANABOY TERMINAL DEVELOPMENT

## BELLANABOY RIVER

**Upstream and Downstream of discharge from Terminal site – to be monitored on a quarterly basis for 2014. Results for June 2014.**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **BEL 1 (upstream)** | | |  | **BEL 2 (downstream)** | | |
| **Parameter** | **Units** | **Result** |  |  |  | **Result** |  |  |
| Suspended Solids | **mg/l** | 7 |  |  |  | <5 |  |  |
| **Turbidity** | **N.T.U** | 1.6 |  |  |  | 1.8 |  |  |
| **pH** | **pH units** | 6.8 |  |  |  | 6.8 |  |  |
| **Conductivity** | **uS/cm** | 123 |  |  |  | 131 |  |  |
|  |  |  |  |  |  |  |  |  |
| **Phosphate** | **mg/l P** | 0.025 |  |  |  | 0.023 |  |  |
| **Ammonia** | **NH3-N** | 0.07 |  |  |  | 0.1 |  |  |
| **Nitrate** | **mg/l NO3-N** | <0.12 |  |  |  | <0.12 |  |  |
| **Nitrite** | **mg/l NO2-N** | <0.013 |  |  |  | <0.013 |  |  |
| **Total Aluminium** | **ug/l Al** | 94 |  |  |  | 95 |  |  |

## SP1 (Discharge point from terminal site)

**Results for May and June 2014 (2 Samples)**

**Analysis by Environmental Laboratory Services, Cork**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  | **SP 1** | | |  |
| **Parameter** | **Units** | **Average** | **Max** | **Min** |  |
| Suspended Solids | **mg/l** | <5 | <5 | <5 |  |
| **Turbidity** | **N.T.U** | 3.3 | 4.4 | 2.1 |  |
| **pH** | **pH units** | 7.15 | 7.2 | 7.1 |  |
| **Conductivity** | **uS/cm** | 286 | 315 | 256 |  |
|  |  |  |  |  |  |
| **Phosphate** | **mg/l P** | <0.009 | <0.009 | <0.009 |  |
| **Ammonia** | **mg/l NH3-N** | 0.032 | 0.039 | 0.025 |  |
| **Nitrate** | **mg/l NO3-N** | <0.12 | <0.12 | <0.12 |  |
| **Nitrite** | **mg/l NO2-N** | <0.013 | <0.013 | <0.013 |  |
| **Total Aluminium** | **ug/l Al** | 97 | 99 | 96 |  |

## Axonics Water Treatment Units (Post-treatment Results)

**Results from May and June 2014 (2 samples)**

**Analysis by Environmental Laboratory Services, Cork**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | **Post-Treatment (2 Samples)** | | |
| **Parameter** | **Units** | **Result** | **Max** | **Min** |
| Suspended Solids | **mg/l** | <5 | <5 | <5 |
| **Turbidity** | **N.T.U** | 0.75 | 0.78 | 0.73 |
| **pH** | **pH units** | 6.85 | 6.9 | 6.8 |
| **Conductivity** | **uS/cm** | 415 | 457 | 373 |
|  |  |  |  |  |
| **Phosphate** | **mg/l P** | <0.009 | <0.009 | <0.009 |
| **Ammonia** | **NH3-N** | 0.06 | 0.08 | 0.05 |
| **Nitrate** | **mg/l NO3-N** | 0.28 | 0.29 | 0.26 |
| **Nitrite** | **mg/l NO2-N** | <0.013 | <0.013 | <0.013 |
| **Total Aluminium** | **ug/l Al** | 196 | 306 | 87 |