

DCS1 - Curraghinalt Burn upstream

| Parameter | Detection limit (typical) | 27/11/2014 | 16/12/2014 | 18/12/2015 | 14/01/2015 | 04/02/2015 | 11/02/2015 | Duplicate | 26/03/2015 | 23/04/2015 | 21/05/2015 | 28/05/2015 | 02/06/2015 |
|-------------------------------------|---------------------------|------------|------------|------------|-------------------|-------------------|------------|-----------|-------------------|------------|-------------------|------------|------------|
| Total Suspended Solids | 10 | <3 | <3 | <3 | 9 | <3 | <3 | <2 | 18 | <3 | 3 | 5 | 4 |
| Biochemical Oxygen Demand | 1 | <1 | <1 | <1 | 1.87 [#] | 1.39 [#] | <1 | <2 | 1.23 [#] | <1 | 1.29 [#] | <1 | <1 |
| pH | - | 6.7 | 6.75 | 7 | 6.9 | 7.23 (6.73) | 6.8 (7.33) | 8.2 | 6.81 (7.05) | 6.99 | 7.19 | 7.7 | 6.57 |
| Total zinc | 3 | <18 | <18 | <18 | 20 | <18 | <18 | 5.394 | <18 | <18 | <18 | 7.49 | <18 |
| Dissolved mercury | 0.5 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <0.01 | <0.1 |
| Dissolved cadmium | 0.03 | <0.6 | <0.6 | <0.6 | <0.6 | <0.6 | <0.6 | <0.09 | <0.6 | <0.6 | <0.6 | <0.1 | <0.6 |
| Dissolved iron | 0.0047 | 2.07 | 0.52 | 0.67 | 0.39 | 0.36 | 0.36 | 0.6633 | <0.23 | 1.34 | 1.34 | 1.47 | 0.52 |
| Dissolved copper | 3 | <9 | <9 | <9 | <9 | <9 | <9 | 7.207 | <9 | <9 | <9 | 2.56 | <9 |
| Dissolved chromium | 0.2 | <2 | <2 | <2 | <2 | <2 | <2 | <0.68 | <2 | <2 | <2 | 0.956 | <2 |
| Chromium VI | 2 | <5 | <5 | <5 | <5 | <5 | <5 | | <5 | <5 | <5 | <30 | <5 |
| Chromium III | 2 | <30 | <30 | <30 | <30 | <30 | <30 | | <30 | <30 | <30 | <30 | <30 |
| Dissolved nickel | 0.2 | <3 | <3 | <3 | <3 | <3 | <3 | 0.702 | <3 | <3 | <3 | 0.913 | <3 |
| Dissolved arsenic | 0.9 | 2.4 | <1 | <1 | <1 | 1.3 | <1 | 1.197 | 2 | 3.2 | 2.2 | 3.69 | 1.2 |
| Dissolved lead | 0.4 | <6 | <6 | <6 | <6 | <6 | <6 | 0.284 | <6 | <6 | <6 | 0.315 | <6 |
| Total hardness as CaCO ₃ | 1 | 21.7 | 16.2 | 21.1 | 30.1 | 24.2 | 19.7 | 19 | 13.4 | 33.1 | 17.6 | 29.4 | 9.98 |
| Visible oil or grease | N/A | - | - | - | - | - | - | - | - | - | - | - | - |

Notes:

pH values presented in pH units. Values in brackets are field pH measurements. Total Suspended Solids, Biochemical Oxygen Demand, Total hardness & Dissolved iron concentrations are presented in mg/L, all other parameters are in µg/L.

[#] BOD over diluted, therefore result indicative only

^Δ Container with headspace

DCS3 - Curraghinalt Burn downstream

| Parameter | Detection limit (typical) | 27/11/2014 | 16/12/2014 | 18/12/2014 | 14/01/2015 | 04/02/2015 | 11/02/2015 | 26/03/2015 | 23/04/2015 | 21/05/2015 | 28/05/2015 | 02/06/2015 | Duplicate |
|-------------------------------------|---------------------------|-------------------|------------|------------|-------------------|-------------------|------------|-------------------|------------|-------------------|-------------------|------------|-----------|
| Total Suspended Solids | 10 | 3 | 8 | 4 | 5 | 3 | 5 | 28 | 72 | <3 | 18 | 9 | 3 |
| Biochemical Oxygen Demand | 1 | 1.08 [#] | <1 | <1 | 1.65 [#] | 1.91 [#] | <1 | 1.31 [#] | <1 | 1.25 [#] | 1.22 [#] | <1 | <2 |
| pH | - | 7.19 | 7.46 | 6.95 | 7.44 | 7.16 (6.93) | 7.45 (7.2) | 6.91 (7.31) | 7.82 | 7.88 | 7.76 | 6.81 | 7.4 |
| Total zinc | 3 | <18 | <18 | <18 | 20 | <18 | <18 | <18 | <18 | <18 | 11.2 | <18 | 36.51 |
| Dissolved mercury | 0.5 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.01 | <0.1 | <0.2 |
| Dissolved cadmium | 0.03 | <0.6 | <0.6 | <0.6 | <0.6 | <0.6 | <0.6 | <0.6 | <0.6 | <0.6 | <0.1 | <0.6 | <0.09 |
| Dissolved iron | 0.0047 | 1.78 | 0.54 | 0.65 | 0.38 | 0.25 | 0.25 | 0.24 | 0.8 | 1.13 | 1.03 | 0.52 | 1.485 |
| Dissolved copper | 3 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | 5.58 | <9 | 19.83 |
| Dissolved chromium | 0.2 | <2 | <2 | <2 | 6 | <2 | <2 | <2 | <2 | <2 | 1.8 | <2 | 1.017 |
| Chromium VI | 2 | <5 | <5 | <5 | 8 | <5 | <5 | <5 | <5 | <5 | <30 | <5 | |
| Chromium III | 2 | <30 | <30 | <30 | <30 | <30 | <30 | <30 | <30 | <30 | <30 | <30 | |
| Dissolved nickel | 0.2 | <3 | <3 | <3 | <3 | <3 | 4 | <3 | <3 | <3 | 2.12 | <3 | 6.816 |
| Dissolved arsenic | 0.9 | 2.1 | <1 | <1 | <1 | 2 | 1.3 | 2.7 | 5.3 | 8.3 | 7.7 | 1.5 | 7.069 |
| Dissolved lead | 0.4 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | 0.187 | <6 | 0.381 |
| Total hardness as CaCO ₃ | 1 | 35.5 | 27.5 | 21 | 34.5 | 41.4 | 49.4 | 13.7 | 71.4 | 36.6 | 65.1 | 10.8 | 25 |
| Visible oil or grease | N/A | - | - | - | - | - | - | - | - | - | - | - | - |

Notes:

pH values presented in pH units. Values in brackets are field pH measurements. Total Suspended Solids, Biochemical Oxygen Demand, Total hardness & Dissolved iron concentrations are presented in mg/L, all other parameters are in µg/L.

[#] BOD over diluted, therefore result indicative only

^Δ Container with headspace

| | 28/07/2015 | 30/07/2015 | 04/08/2015 | 02/09/2015 | 01/10/2015 | 22/10/2015 | 05/11/2015 | 09/12/2015 | 06/01/2015 | 03/02/2015 | 02/03/2016 | 06/04/2016 | 04/05/2016 | 02/06/2016 | 04/07/2016 | 03/08/2016 |
|--------------------|------------|-------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|-------------|-------------|-------------|------------|
| 9 | <10 | <10 | 32 | <10 | <10 | 17 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| 1.49 ^{#Δ} | 1 | 2 | 1 | 2 | <1 | 2 | 2 | 1 | <1 | 2 | 2 | 2 | <1 | <1 | 2 | |
| 5.94 (6.49) | 6.85 | 5.74 (8.36) | 7.46 | 6.75 | 7.34 | 7.74 (7.54) | 6.79 (6.49) | 7.59 (6.64) | 6.09 (4.82) | 7.18 (6.87) | 6.70 (6.71) | 6.94 (7.5) | 7.21 (7.78) | 7.04 (7.34) | 6.51 (6.99) | |
| 14 | 8 | 7 | 8 | 7 | 6 | 28 | 4 | 4 | 20 | 8 | 4 | <3 | <3 | 5 | 10 | |
| 0.51 | <0.01 | <0.01 | <0.01 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.01 | <0.01 | <0.01 | |
| 6.9 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | 0.09 | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | |
| 1.2 | 2.569 | 2.046 | 6.269 | 6.646 | 5.39 | 4.41 | 1.131 | 1.276 | 0.3198 | 0.7347 | 0.7676 | 1.861 | 3.229 | 1.876 | 3.405 | |
| 9.6 | <3 | <3 | 4 | <3 | <3 | 4 | <3 | <3 | <3 | <3 | <3 | <3 | <3 | <3 | <3 | |
| 4.7 | <0.2 | 0.6 | 1.2 | 0.4 | <0.2 | 0.3 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | |
| <20 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <6 | <6 |
| <20 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <6 | <6 |
| 3.1 | 0.7 | 1 | 1.6 | 1.3 | 0.3 | 0.7 | <0.2 | 1.2 | 0.4 | 0.3 | <0.2 | <0.2 | 0.3 | 0.4 | 0.7 | |
| 2.8 | 2.5 | 2.6 | 4.6 | 5.9 | 2.8 | <0.9 | 1.2 | 1.8 | <0.9 | <0.9 | <0.9 | 2.5 | 2.9 | 4 | <0.9 | |
| 2.1 | <0.4 | <0.4 | 2.7 | <0.4 | <0.4 | 1.2 | 1.1 | 1.2 | <0.4 | 0.6 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | |
| <15 | 229 | 12 | 23 | 30 | 24 | 37 | 7 | 12 | 18 | 16 | 9 | 21 | 33 | 16 | 16 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

| | 28/07/2015 | 30/07/2015 | 04/08/2015 | 02/09/2015 | 01/10/2015 | 22/10/2015 | 05/11/2015 | 09/12/2015 | 06/01/2015 | 03/02/2015 | 02/03/2016 | 06/04/2016 | 04/05/2016 | 02/06/2016 | 04/07/2016 | 03/08/2016 |
|--------------------|------------|-------------|------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|------------|-------------|-------------|-------------|------------|
| 16 | <10 | <10 | <10 | <10 | <10 | 10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| 1.42 ^{#Δ} | 1 | 2 | 1 | 1 | <1 | 2 | 3 | <1 | <1 | 2 | 2 | 1 | 1 | 1 | 1 | 2 |
| 6.02 (6.28) | 7.12 | 5.95 (6.40) | 7.12 | 6.45 | 7.46 | 7.73 (7.5) | 7.45 (6.5) | 7.47 (6.68) | 7.35 (5.77) | 6.86 (7.14) | 7.12 (6.77) | 7.4 (7.25) | 7.06 (7.47) | 6.74 (7.20) | 6.95 (7.12) | |
| 13 | 9 | 7 | 9 | 7 | 8 | 17 | 4 | 6 | 18 | 8 | 4 | <3 | 5 | 5 | 6 | |
| <0.5 | <0.01 | <0.01 | <0.01 | 0.6 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.01 | <0.01 | <0.01 | |
| 0.45 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | 0.07 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | |
| 1.2 | 2.634 | 1.843 | 3.455 | 6.574 | 3.424 | 2.834 | 1.016 | 0.993 | 0.305 | 0.508 | 0.7319 | 1.043 | 1.172 | 1.901 | 3.003 | |
| 4.2 | 3 | <3 | 3 | <3 | <3 | 7 | <3 | <3 | <3 | <3 | <3 | <3 | <3 | <3 | <3 | |
| 4.6 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | 0.9 | <0.2 | <0.2 | <0.2 | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | |
| <20 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <6 | <6 |
| <20 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <6 | <6 |
| 4.6 | 0.7 | 0.4 | 2.4 | 1.4 | 2.3 | 2.5 | <0.2 | 1.1 | 0.7 | 1 | <0.2 | 1.8 | 3 | <0.2 | 1 | |
| 1.3 | <0.9 | 2 | 3.4 | 6.5 | 3.9 | 3.6 | 2.8 | 5.3 | 1.3 | <0.9 | <0.9 | 2.1 | 1.6 | 4.2 | 1.4 | |
| <1 | 1 | 0.7 | 1.2 | 0.9 | <0.4 | 2.8 | <0.4 | 0.8 | 2 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | |
| <15 | 21 | 21 | 68 | 31 | 84 | 100 | 22 | 57 | 33 | 41 | 12 | 102 | 157 | 26 | 35 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |