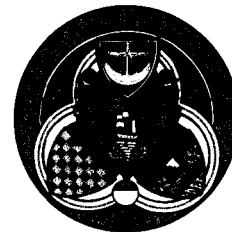


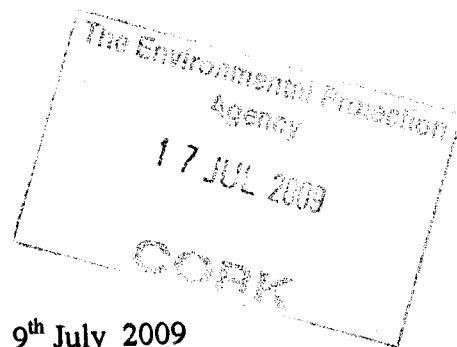
Comhairle Contae Chorcaí Cork County Council

Administration Section
Wastewater Discharge Licence Section
Office of Climate, Licencing and Resource Use
Environmental Protection Agency
HQ PO Box 3000
Johnstown Castle Estate
County Wexford
Ireland

Environmental Directorate,
Inniscarra, Co. Cork.
Tel. No. (021) 4532700 • Fax No. (021) 4532727
Web: www.corkcoco.ie
An Stiúirthóireacht Comhshaoil,
Inis Cara, Co. Corcaigh.
Fón: (021) 4532700 • Faics: (021) 4532727
Suíomh Gréasáin: www.corkcoco.ie



Subject : WWDA Register Number – D0466-01 Timoleague



9th July 2009

Dear Sir or Madam,


Cork County Council are submitting additional information in the form of a revised Attachment E4 in respect of the WWDA licence application D0466-01 for the Timoleague agglomeration as the (TBT) Tributyl Tin result data was not available at the time that the application was submitted to the agency in June 2009.

The electronic copy is a true copy of the data attached to this letter..

Should you have any queries or clarification my contact details are supplied below

Phone no. 021-4532707
E mail valerie.hannon@corkcoco.ie

Yours Sincerely


Valerie Hannon,
A/Senior Executive Scientist
Environment Directorate

c.c. Water Services West, Cork County Council, Skibbereen, Co. Cork



Attachment E4 (Revised) Timoleague Upstream and Downstream locations Register number D0466-01

| Attachment E4 Timoleague Downstream Table E4 | | | Attachment E4 Timoleague Upstream Table E4 | | |
|--|-----------|----------------------|--|----------------|--------------|
| Sample Date | 21/5/2009 | Comments | Sample Date | 21/5/2009 | 21/5/2009 |
| Sample | AMBIENT | | Sample | River Argideen | River Spital |
| Sample Code | GT758 | | Sample Code | GT756 | GT757 |
| Location number | none | | Location number | 1 | 2 |
| Flow M ³ /Day | * | | Flow M ³ /Day | * | * |
| pH | 8.3 | | pH | 7.8 | 7.6 |
| Temperature °C | * | | Temperature °C | * | * |
| Cond 20°C | 35700 | | Cond 20°C | 207 | 374 |
| SS mg/L | 10 | | SS mg/L | <2.5 | 5 |
| NH ₃ mg/L | 0.5" | "saline interference | NH ₃ mg/L | <0.1 | 0.5 |
| BOD mg/L | 3 | | BOD mg/L | 1 | 4 |
| COD mg/L | 22 | | COD mg/L | <21 | <21 |
| TN mg/L | 1.21 | | TN mg/L | 4.51 | 12.51 |
| Nitrite mg/L | <0.10 | | Nitrite mg/L | <0.10 | 0.257 |
| Nitrate mg/L | <0.50 | | Nitrate mg/L | 3.46 | 8.903 |
| TP mg/L | <0.05 | | TP mg/L | <0.05 | 0.16 |
| O-PO4-P mg/L | <0.05 | | O-PO4-P mg/L | * | 0.09 |
| SO4 mg/L | * | "saline interference | SO4 mg/L | <30 | <30 |
| Phenols µg/L | <0.10 | | Phenols µg/L | <0.10 | <0.10 |
| Atrazine µg/L | <0.01 | | Atrazine µg/L | <0.01 | <0.01 |
| Dichloromethane µg/L | <1 | | Dichloromethane µg/L | <1 | <1 |
| Simazine µg/L | <0.01 | | Simazine µg/L | <0.01 | <0.01 |
| Toluene µg/L | <0.28 | | Toluene µg/L | <0.28 | <0.28 |
| Tributyltin µg/L | <0.02 | | Tributyltin µg/L | * | * |
| Xylenes µg/L | <1 | | Xylenes µg/L | <1 | <1 |
| Arsenic µg/L | 1.7 | | Arsenic µg/L | <0.96 | 1 |
| Chromium ug/L | <20 | | Chromium ug/L | <20 | <20 |
| Copper ug/L | <20 | | Copper ug/L | <20 | <20 |
| Cyanide µg/L | 5 | | Cyanide µg/L | <5 | <5 |
| Fluoride µg/L | 603 | "saline interference | Fluoride µg/L | <100 | <100 |
| Lead ug/L | <20 | | Lead ug/L | <20 | <20 |
| Nickel ug/L | <20 | | Nickel ug/L | <20 | <20 |
| Zinc ug/L | <20 | | Zinc ug/L | <20 | <20 |
| Boron ug/L | 2242 | | Boron ug/L | 30.805 | <20 |
| Cadmium ug/L | <20 | | Cadmium ug/L | <20 | <20 |
| Mercury µg/L | <0.2 | | Mercury µg/L | <0.2 | <0.2 |
| Selenium µg/L | 14.7 | | Selenium µg/L | 4.6 | 3.1 |
| Barium ug/L | <20 | | Barium ug/L | <20 | <20 |

| Attachment E4 (Revised) Timoleague Discharge Locations Register number D0466-01 | | | | | |
|---|-----------|-----------|-----------|-----------|--------------------------|
| Sample Date | 21/5/2009 | 21/5/2009 | 21/5/2009 | 21/5/2009 | |
| Sample | Effluent | Effluent | Effluent | Effluent | Location key |
| Location Number | 1 | 2 | 3 | 4 | Manhole Reference Number |
| Sample Code | GT752 | GT753 | GT754 | GT755 | number 1 = 47431401 |
| Flow M ³ /Day | * | * | * | * | number 2 = 47432501 |
| pH | 8.3 | 8.7 | 8.6 | 7.9 | number 3 = 47432701 |
| Temperature °C | * | * | * | * | number 4 = 47431707 |
| Cond 20 °C | 1049 | 955 | 1466 | 3060 | |
| SS mg/L | 172 | 155 | 76 | 157 | |
| NH ₃ mg/L | 39.7 | 57.8 | 30.4 | 45.5 | |
| BOD mg/L | 297 | 189 | 50 | 69 | |
| COD mg/L | 771 | 457 | 98 | 232 | |
| TN mg/L | 75.6 | 105.7 | 50.9 | 75.9 | |
| Nitrite mg/L | <0.10 | <0.10 | 1.058 | <0.10 | |
| Nitrate mg/L | <0.50 | <0.50 | 1.542 | <0.50 | |
| TP mg/L | 29.65 | 11.08 | 6.7 | 5.61 | |
| O-PO4-P mg/L | 21.0 | 7.12 | 3.48 | 4.43 | |
| SO4 mg/L | 69.3 | 59 | 81.5 | 130.5 | |
| Phenols µg/L | 7.581 | 37.44 | <0.10 | 5.413 | |
| Atrazine µg/L | <0.01 | <0.01 | <0.01 | <0.01 | |
| Dichloromethane µg/L | <1 | <1 | <1 | <1 | |
| Simazine µg/L | <0.01 | <0.01 | <0.01 | <0.01 | |
| Toluene µg/L | <0.28 | <0.28 | <0.28 | <0.28 | |
| Tributyltin µg/L | * | <0.25 | * | * | |
| Xylenes µg/L | <1 | <1 | <1 | <1 | |
| Arsenic µg/L | <0.96 | 1 | <0.96 | 2 | |
| Chromium ug/L | <20 | <20 | <20 | <20 | |
| Copper ug/L | 34.5 | <20 | <20 | <20 | |
| Cyanide µg/L | 5 | <5 | <5 | 9 | |
| Fluoride µg/L | 449 | 473 | 574 | 476 | |
| Lead ug/L | <20 | <20 | <20 | <20 | |
| Nickel ug/L | <20 | <20 | <20 | <20 | |
| Zinc ug/L | 130.9 | 61.5 | <20 | 27.1 | |
| Boron ug/L | <20 | <20 | 48.255 | 131 | |
| Cadmium ug/L | <20 | <20 | <20 | <20 | |
| Mercury µg/L | <0.2 | <0.2 | 0.4 | <0.2 | |
| Selenium µg/L | 8.2 | 4.4 | 18.3 | 37.4 | |
| Barium ug/L | <20 | <20 | <20 | <20 | |

For inspection purposes only.
Consent of copyright owner required for any other use.

detection limits raised due to sample matrix difficulties in analysis