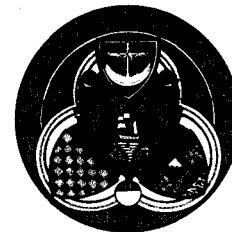


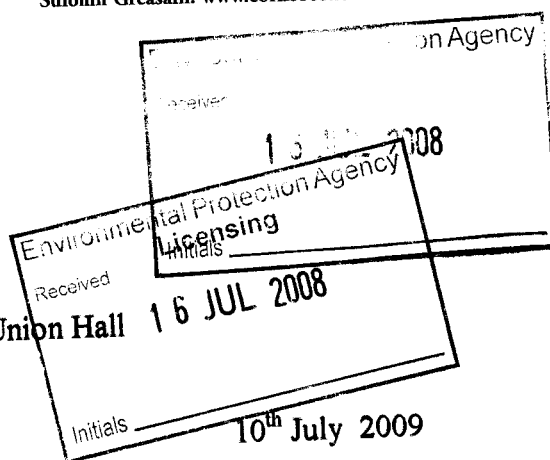
Comhairle Contae Chorcaí Cork County Council

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 Stiúrthóireacht Comhshaoil,
Inis Cara, Co. Corcaigh.
Fón: (021) 4532700 • Faics: (021) 4532727
Suíomh Gréasáin: www.corkcoco.ie



Subject :WWDA Register Number – D0469-01 Union Hall



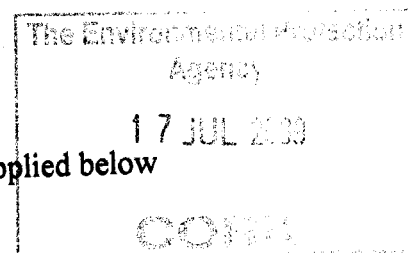
Dear Sir or Madam,

Cork County Council are submitting additional information in the form of a revised Attachment E4 in respect of the WWDA licence application D0469-01 for the union Hall 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.

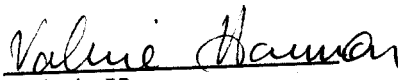
The electronic copy is a true copy of the data attached to this letter..

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) Union Hall - D0469-01

Attachment E4 Union Hall Upstream Transitional


Sample Date	28/5/2009	
Sample	River	Comments
Sample Code	GT770	
Flow M ³ /Day	*	
pH	8.1	
Temperature °C	*	
Cond 20°C	47800	
SS mg/L	35	
NH ₃ mg/L	0.5"	"saline interference
BOD mg/L	1	
COD mg/L	28	
TN mg/L	0.26	
Nitrite mg/L	<0.10	
Nitrate mg/L	<0.50	
TP mg/L	<0.05	
O-PO4-P mg/L	<0.05	
SO4 mg/L	no result available	"saline interference
Phenols µg/L	<0.10	
Atrazine µg/L	<0.01	
Dichloromethane µg/L	<1	
Simazine µg/L	<0.01	
Toluene µg/L	<0.28	
Tributyltin µg/L	<0.02	
Xylenes µg/L	<1	
Arsenic µg/L	<0.96	
Chromium ug/L	<20	
Copper ug/L	<20	
Cyanide µg/L	<5	
Fluoride µg/L	791	"saline interference
Lead ug/L	<20	
Nickel ug/L	<20	
Zinc ug/L	<20	
Boron ug/L	2159	
Cadmium ug/L	<20	
Mercury µg/L	<0.2	
Selenium µg/L	3.2	
Barium ug/L	<20	

Attachment E4 Union Hall Downstream Transitional

Sample Date	28/5/2009	
Sample	River	Comments
Sample Code	GT771	
Flow M ³ /Day	*	
pH	8.1	
Temperature °C	*	
Cond 20°C	48400	
SS mg/L	17	
NH ₃ mg/L	0.5	"saline interference
BOD mg/L	2	
COD mg/L	27	
TN mg/L	0.24	
Nitrite mg/L	<0.10	
Nitrate mg/L	<0.50	
TP mg/L	<0.05	
O-PO4-P mg/L	<0.05	
SO4 mg/L	no result available	"saline interference
Phenols µg/L	<0.10	
Atrazine µg/L	<0.01	
Dichloromethane µg/L	<1	
Simazine µg/L	<0.01	
Toluene µg/L	<0.28	
Tributyltin µg/L	<0.02	
Xylenes µg/L	<1	
Arsenic µg/L	2.8	
Chromium ug/L	<20	
Copper ug/L	<20	
Cyanide µg/L	<5	
Fluoride µg/L	765	"saline interference
Lead ug/L	<20	
Nickel ug/L	<20	
Zinc ug/L	<20	
Boron ug/L	107.1	
Cadmium ug/L	<20	
Mercury µg/L	<0.2	
Selenium µg/L	1766	"saline interference
Barium ug/L	<20	

Attachment E4 (Revised) Union Hall - D0469-01

Attachment E4 Union Hall Inlet			E4 Union Hall Discharge		
Sample Date	28/5/2009		Sample Date	28/5/2009	
Sample	Influent		Sample	Effluent	
Sample Code	GT773		Sample Code	GT774	
Flow M ³ /Day	*		Flow M ³ /Day	*	
pH	8.2		pH	7.1	
Temperature °C	*		Temperature °C	*	
Cond 20°C	7230		Cond 20°C	10780	
SS mg/L	87		SS mg/L	99	
NH ₃ mg/L	8.6		NH ₃ mg/L	9.8	
BOD mg/L	162		BOD mg/L	83	
COD mg/L	327		COD mg/L	347	
TN mg/L	18.5		TN mg/L	18.8	
Nitrite mg/L	<0.10		Nitrite mg/L	<0.10	
Nitrate mg/L	<0.50		Nitrate mg/L	<0.50	
TP mg/L	1.69		TP mg/L	1.7	
O-PO4-P mg/L	0.89		O-PO4-P mg/L	0.91	
SO4 mg/L	373.5	possible saline interference	SO4 mg/L	544.8	possible saline interference
Phenols µg/L	<0.10		Phenols µg/L	<0.10	
Atrazine µg/L	<0.01		Atrazine µg/L	<0.01	
Dichloromethane µg/L	<1		Dichloromethane µg/L	<1	
Simazine µg/L	<0.01		Simazine µg/L	<0.01	
Toluene µg/L	<0.28		Toluene µg/L	<0.28	
Tributyltin µg/L	*		Tributyltin µg/L	<0.10	
Xylenes µg/L	<1		Xylenes µg/L	<1	
Arsenic µg/L	1.9		Arsenic µg/L	*	
Chromium ug/L	<20		Chromium ug/L	<20	
Copper ug/L	<20		Copper ug/L	<20	
Cyanide µg/L	<5		Cyanide µg/L	<5	
Fluoride µg/L	423		Fluoride µg/L	460	
Lead ug/L	<20		Lead ug/L	<20	
Nickel ug/L	<20		Nickel ug/L	<20	
Zinc ug/L	36.6		Zinc ug/L	<20	
Boron ug/L	<20		Boron ug/L	<20	
Cadmium ug/L	<20		Cadmium ug/L	<20	
Mercury µg/L	<0.2		Mercury µg/L	<0.2	
Selenium µg/L	69.8	possible saline interference	Selenium µg/L	97.8	possible saline interference
Barium ug/L	<20		Barium ug/L	<20	

 detection limit raised due to sample matrix interference