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Cork County Council
South Cork Division



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 County Hall, Cork.
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 Director of Services
 South Cork.

Project:
EPA LICENCE APPLICATION
 Passage West / Monkstown

Title:
Attachment Section E2
Sampling Points

Designed:	Checked:	Scale:	Drawing No.
BOL	FW	1:20,000	Map 17
Drawn:	Approved:	Date:	
BOL	FW	28/08/08	

Cork County Council

Wastewater Discharge Licence Application under S.I. 684 of 2007 Regulations

Section E: Attachment No. E3
Tabular data on Monitoring and Sampling Points

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Table E.3

PT_CD	PT_TYPE	MON_TYPE	EASTING	NORTHING	VERIFIED
SW01PASS	Primary	S	E176509	N069211	Y
SW02PASS	Secondary	S	E177151	N067461	Y
SW03PASS	Secondary	S	E177074	N066100	Y
SW04PASS	Secondary	Not applicable	Not Available	Not Available	Not Applicable
SW05PASS	Secondary	Not applicable	Not Available	Not Available	Not Applicable
SW06PASS	Secondary	Not applicable	Not Available	Not Available	Not Applicable
SW07PASS	Secondary	Not applicable	Not Available	Not Available	Not Applicable
SW08PASS	Secondary	Not applicable	Not Available	Not Available	Not Applicable

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Wastewater Discharge Licence Application under S.I. 684 of 2007 Regulations

Section F: Attachment No. F1
Assessment of Impact on Receiving Surface or Ground Water

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TABLE F.1(i)(a): SURFACE/GROUND WATER MONITORING
 (Primary Discharge Point – one table per upstream and downstream location)
 Discharge Point Code: SW01PASS*
 MONITORING POINT CODE: aSW01PASSu

Parameter	Results (mg/l ^{Note 1})				Sampling method (grab, drift etc.)	Limit of Quantitation	Analysis method / technique
	19/07/06	28/02/07	09/07/07	20/08/07			
pH	8.35	8.04	8.15	8.03	Grab		
Temperature	18.64	8.89	14.45	15.1	Grab		
Electrical Conductivity (@25°C)	Not Available	Not Available	Not Available	Not Available	Grab		
Suspended Solids	Not Available	Not Available	Not Available	Not Available	Grab		
Ammonia (as N)	0.071	0.10	0.047	0.106	Grab		
Biochemical Oxygen Demand	Not Available	Not Available	Not Available	Not Available	Grab		
Chemical Oxygen Demand	Not Available	Not Available	Not Available	Not Available	Grab		
Dissolved Oxygen	Not Available	Not Available	Not Available	Not Available	Grab		
Hardness (as CaCO ₃)	Not Available	Not Available	Not Available	Not Available	Grab		
Total Nitrogen (as N)	Not Available	Not Available	Not Available	Not Available	Grab		
Nitrite (as N)	Not Available	Not Available	Not Available	Not Available	Grab		
Nitrate (as N)	Not Available	Not Available	Not Available	Not Available	Grab		
Total Phosphorus (as P) (ug/l)	9.95	34.5	14.0	25.75	Grab		
Orthophosphate (as P) - unfiltered	Not Available	Not Available	Not Available	Not Available	Grab		
Sulphate (SO ₄)	Not Available	Not Available	Not Available	Not Available	Grab		
Phenols (sum) ^{Note 2} (ug/l)	Not Available	Not Available	Not Available	Not Available	Grab		

Note 1: Or other unit as appropriate – please specify.

Note 2: USEPA Method 604, AWWA Standard Method 6240, or equivalent.

*** (Cork County Council does not carry out surface water monitoring of Cork Harbour, this data is EPA monitoring data)**

TABLE F.1(i)(b): SURFACE/GROUND WATER MONITORING (Dangerous Substances)
(Primary Discharge Point - one table per upstream and downstream location)

Discharge Point Code: SW01PASS

MONITORING POINT CODE: aSW01PASSu

Parameter	Results (µg/l)				Sampling method (grab, drift etc.)	Limit of Quantitation	Analysis method / technique
	Date	Date	Date	Date			
Atrazine	Not available	Not available	Not available	Not available			
Dichloromethane	Not available	Not available	Not available	Not available			
Simazine	Not available	Not available	Not available	Not available			
Toluene	Not available	Not available	Not available	Not available			
Tributyltin	Not available	Not available	Not available	Not available			
Xylenes	Not available	Not available	Not available	Not available			
Arsenic	Not available	Not available	Not available	Not available			
Chromium	Not available	Not available	Not available	Not available			
Copper	Not available	Not available	Not available	Not available			
Cyanide	Not available	Not available	Not available	Not available			
Fluoride	Not available	Not available	Not available	Not available			
Lead	Not available	Not available	Not available	Not available			
Nickel	Not available	Not available	Not available	Not available			
Zinc	Not available	Not available	Not available	Not available			
Boron	Not available	Not available	Not available	Not available			
Cadmium	Not available	Not available	Not available	Not available			
Mercury	Not available	Not available	Not available	Not available			
Selenium	Not available	Not available	Not available	Not available			
Barium	Not available	Not available	Not available	Not available			

TABLE F.1(i)(a): SURFACE/GROUND WATER MONITORING

(Primary Discharge Point – one table per upstream and downstream location)

Discharge Point Code: SW01PASS*

MONITORING POINT CODE: aSW01PASSd

Parameter	Results (mg/l ^{Note 1})				Sampling method (grab, drift etc.)	Limit of Quantitation	Analysis method / technique
	19/07/06	28/02/07	09/07/07	20/08/07			
pH	8.26	8.07	8.13	8.05	Grab		
Temperature	17.53	8.99	13.34	14.68	Grab		
Electrical Conductivity (@25°C)	Not Available	Not Available	Not Available	Not Available	Grab		
Suspended Solids	Not Available	Not Available	Not Available	Not Available	Grab		
Ammonia (as N)	0.031	0.07	0.0199	0.058	Grab		
Biochemical Oxygen Demand	2.13	Not Available	1.43	0.99	Grab		
Chemical Oxygen Demand	Not Available	Not Available	Not Available	Not Available	Grab		
Dissolved Oxygen	Not Available	Not Available	Not Available	Not Available	Grab		
Hardness (as CaCO ₃)	Not Available	Not Available	Not Available	Not Available	Grab		
Total Nitrogen (as N)					Grab		
Nitrite (as N)	Not Available	Not Available	Not Available	Not Available	Grab		
Nitrate (as N)	Not Available	Not Available	Not Available	Not Available	Grab		
Total Phosphorus (as P) (ug/l)	9.9	28	9.9	15.75	Grab		
Orthophosphate (as P) - unfiltered	Not Available	Not Available	Not Available	Not Available	Grab		
Sulphate (SO ₄)	Not Available	Not Available	Not Available	Not Available	Grab		
Phenols (sum) ^{Note 2} (ug/l)	Not Available	Not Available	Not Available	Not Available	Grab		

Note 1: Or other unit as appropriate – please specify.

Note 2: USEPA Method 604, AWWA Standard Method 6240, or equivalent.

*** (Cork County Council does not carry out surface water monitoring of Cork Harbour, this data is EPA monitoring data)**

**TABLE F.1(i)(b): SURFACE/GROUND WATER MONITORING (Dangerous Substances)
(Primary Discharge Point - one table per upstream and downstream location)**

Discharge Point Code: SW01PASS

MONITORING POINT CODE: aSW01PASSd

Parameter	Results (µg/l)				Sampling method (grab, drift etc.)	Limit of Quantitation	Analysis method / technique
	Date	Date	Date	Date			
Atrazine	Not available	Not available	Not available	Not available			
Dichloromethane	Not available	Not available	Not available	Not available			
Simazine	Not available	Not available	Not available	Not available			
Toluene	Not available	Not available	Not available	Not available			
Tributyltin	Not available	Not available	Not available	Not available			
Xylenes	Not available	Not available	Not available	Not available			
Arsenic	Not available	Not available	Not available	Not available			
Chromium	Not available	Not available	Not available	Not available			
Copper	Not available	Not available	Not available	Not available			
Cyanide	Not available	Not available	Not available	Not available			
Fluoride	Not available	Not available	Not available	Not available			
Lead	Not available	Not available	Not available	Not available			
Nickel	Not available	Not available	Not available	Not available			
Zinc	Not available	Not available	Not available	Not available			
Boron	Not available	Not available	Not available	Not available			
Cadmium	Not available	Not available	Not available	Not available			
Mercury	Not available	Not available	Not available	Not available			
Selenium	Not available	Not available	Not available	Not available			
Barium	Not available	Not available	Not available	Not available			

**TABLE F.1(ii)(a): SURFACE/GROUND WATER MONITORING -
(1 table per discharge point upstream and downstream locations) (Secondary Discharge Point)**

Discharge Point Code: not applicable

MONITORING POINT CODE: _____

Parameter	Results (mg/l ^{Note 1})				Sampling method (grab, drift etc.)	Limit of Quantitation	Analysis method / technique
	Date	Date	Date	Date			
pH							
Temperature							
Electrical Conductivity (@25°C)							
Suspended Solids							
Ammonia (as N)							
Biochemical Oxygen Demand							
Chemical Oxygen Demand							
Dissolved Oxygen							
Hardness (as CaCO ₃)							
Total Nitrogen (as N)							
Nitrite (as N)							
Nitrate (as N)							
Total Phosphorus (as P)							
Orthophosphate (as P) - unfiltered							
Sulphate (SO ₄)							
Phenols (sum) ^{Note 2} (ug/l)							

Note 1: Or other unit as appropriate – please specify.

Note 2: USEPA Method 604, AWWA Standard Method 6240, or equivalent.

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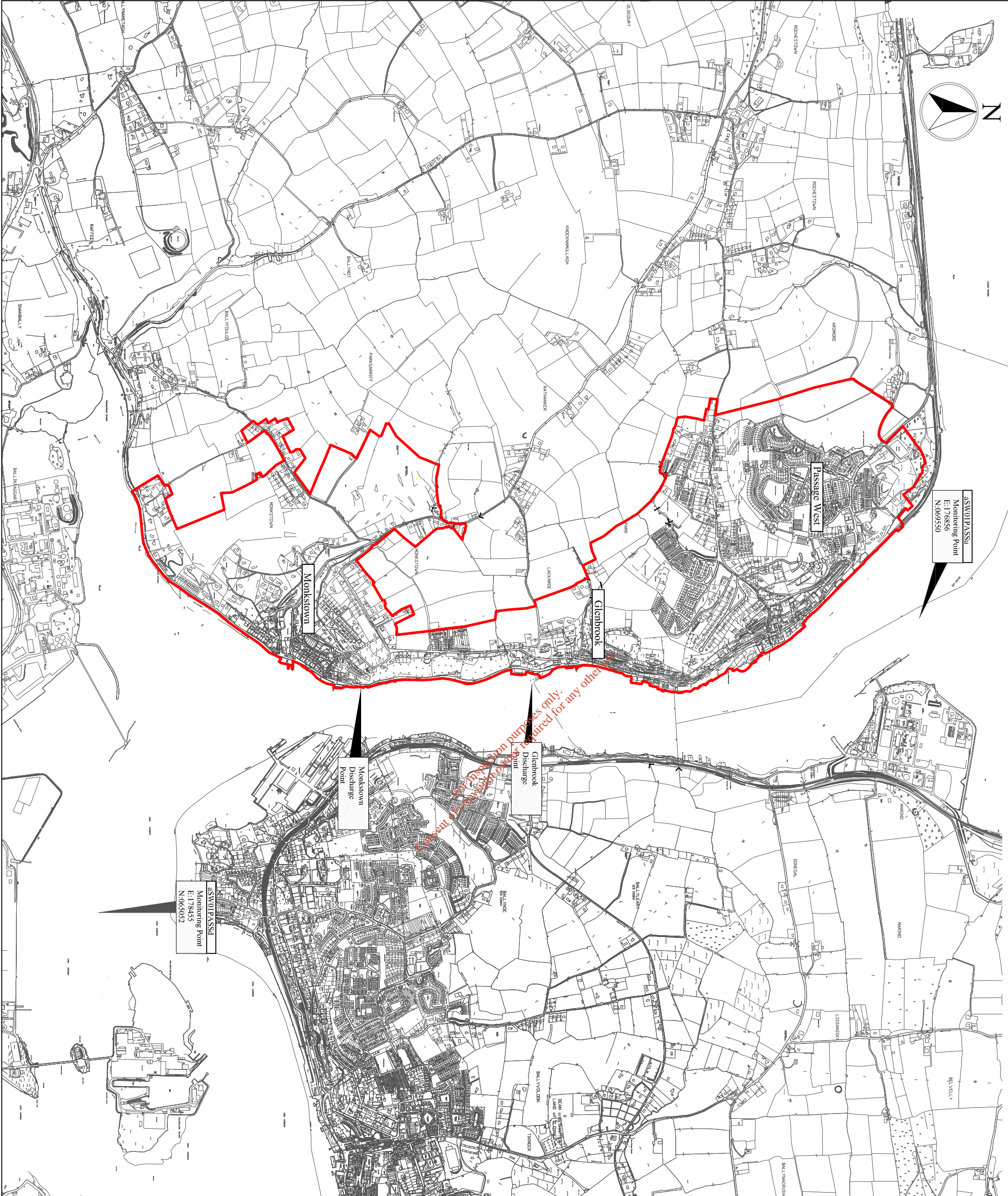
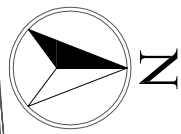
**TABLE F.1(ii)(b): SURFACE/GROUND WATER MONITORING -
 (1 table per discharge point upstream and downstream locations) (Secondary Discharge Point)**

Discharge Point Code: not applicable

MONITORING POINT CODE: not applicable

Parameter	Results (µg/l)				Sampling method (grab, drift etc.)	Limit of Quantitation	Analysis method / technique
	Date	Date	Date	Date			
Atrazine							
Dichloromethane							
Simazine							
Toluene							
Tributyltin							
Xylenes							
Arsenic							
Chromium							
Copper							
Cyanide							
Fluoride							
Lead							
Nickel							
Zinc							
Boron							
Cadmium							
Mercury							
Selenium							
Barium							

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ASW01PASSu
Monitoring Point
E:176856
N:069550

Monkstown

Glenbrook

Passage West

Monkstown
Discharge
Point

Glenbrook
Discharge
Point

ASW01PASSd
Monitoring Point
E:178455
N:065052

Notes:

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**Cork County Council
South Cork Division**



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County Hall, Cork.

P. Power
Director of Services
South Cork.

Project:
EPA LICENCE APPLICATION
Passage West / Monkstown

Title:
**Attachment Section F1
Monitoring Points**

Designed:	Checked:	Scale:	Drawing No.
BOL	FW	1:20,000	Map 18
Drawn:	Approved:	Date:	
BOL	FW	28/08/08	

Cork County Council

Wastewater Discharge Licence Application under S.I. 684 of 2007 Regulations

Section G: Attachment No G1
Compliance with Council Directives

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Attachment G.1. Compliance with Council Directive: Programme of Improvements

Cork County					
Water Services Investment Programme 2007 - 2009					
Schemes at Construction	W/S	Est. Cost	Schemes to start 2009 cont'd.	W/S	Est. Cost
Cork North			Cork South		
Mitchelstown Sewerage Scheme (Nutrient Removal)	S	221,000	Ballincollig Sewerage Scheme (Upgrade) (G)	S	22,248,000
			Cork Lower Harbour Sewerage Scheme (excl. Crosshaven SS)S		73,542,000
Cork South			Shamagarry/ Gurryjos/ Ballycotton Sewerage Scheme		
Ballycurney/ Ballymakeery Sewerage Scheme	S	3,049,000	Youghal Sewerage Scheme	S	14,420,000
Cobh/ Midleton/ Camgwahill Water Supply Scheme	W	10,135,000	Cork West		
Cork Lower Harbour Sewerage Scheme (Crosshaven SS) (G)	S	4,850,000	Ballydehob Sewerage Scheme	S	653,000
Cork Water Strategy Study (G)	W	941,000	Bantry Water Supply Scheme	W	14,935,000
Kinsale Sewerage Scheme	S	20,000,000	Cronakilly Sewerage Scheme (Plant Capacity Increase)	S	3,677,000
Midleton Sewerage Scheme (Infiltration Reduction) (G)	S	2,078,000	Courtmaashery/ Timoleague Sewerage Scheme	S	2,472,000
		41,274,000	Durmanway Regional Water Supply Scheme Stage 1	W	12,699,000
Schemes to start 2007					164,629,000
Cork North			Serviced Land Initiative		
North Cork Grouped DBO Wastewater Treatment Plant (Buttevant, Doneraile & Kibrin)	S	5,150,000	Cork North		
Cork West			Ballydough Water Supply Scheme	W	139,000
Skibbereen Sewerage Scheme	S	20,000,000	Ballyroddy Im. Sewerage Scheme	W/S	139,000
		25,150,000	Brogan/ Phloggin Sewerage Scheme	S	405,000
Schemes to start 2008			Cork West Water Supply Scheme	W	115,000
Cork North			Cherrytown Sewerage Scheme (incl. Water)	W/S	543,000
Mallow/ Ballywinter Regional Water Supply Scheme (H) W		8,692,000	Clondulane Sewage Treatment Plant	S	417,000
Mallow Sewerage Scheme (H)	S	2,463,000	Freshcourt Sewerage Scheme	S	150,000
Cork South			Pike Road Sewerage Scheme (incl. Water)	W/S	2,080,000
Ballincellig Sewerage Scheme (Nutrient Removal) (G)	S	948,000	Rathmoac Sewerage Scheme (incl. Water)	W/S	555,000
Ballingeary Sewerage Scheme	S	1,296,000	Spa Glen Sewerage Scheme	S	736,000
Bandon Sewerage Scheme Stage 2	S	14,729,000	Uplands Farmoy Sewerage Scheme (incl. Water)	W/S	1,174,000
City Environs (CASP) Strategic Study (G)	S	153,000	Watergrasshill Water Supply Scheme (incl. Sewerage) (G)	W/S	4,151,000
Cloghroe Sewerage Scheme (Upgrade)	S	653,000	Cork South		
Coashford Water Supply Scheme	W	1,318,000	Ballincollig Sewerage Scheme (Barry's Rd Foulard Storm Drainage) (G)	S	1,154,000
Garrettstown Sewerage Scheme	S	2,153,000	Belgrody Water Supply Scheme (incl. Sewerage)	W/S	2,913,000
Inniscurra Water Treatment Plant Extension Phase 1	W	2,675,000	Blaney Water Supply Scheme (Ext. to Station Rd) (G)	W	415,000
Little Island Sewerage Scheme (G)	S	2,200,000	Camgwahill Sewerage Scheme (Treatment and Storm Drain) (G)	S	7,632,000
Cork West			Castlemole Wastewater Treatment Plant Extension	S	1,200,000
Bantry Sewerage Scheme	S	7,148,000	Crookstown Sewerage Scheme (incl. Water)	W/S	1,200,000
Durmanway Sewerage Scheme	S	2,153,000	Dipsay Water Supply Scheme (incl. Sewerage)	W/S	1,112,000
Leap/ Baltimore Water Supply Scheme	W	6,365,000	Glunthane Sewerage Scheme (G)	S	1,576,000
Schull Water Supply Scheme	W	5,253,000	Inishannon Sewerage Scheme	S	277,000
		61,137,000	Inishannon Wastewater Treatment Plant	S	654,000
Schemes to start 2009			Kerrypike Sewerage Scheme	S	632,000
Cork North			Kerrypike Water Supply Scheme	W	415,000
Banther/Dromshane Regional Water Supply Scheme	W	1,576,000	Kilbegh Wastewater Treatment Plant Extension	S	1,200,000
Conna Regional Water Supply Scheme Extension	W	2,627,000	Kilbegh Water Supply Scheme (includes Sewerage)	W/S	455,000
Cork NE Water Supply Scheme	W	4,326,000	Kilcans Sewerage Scheme	S	420,000
Cork NW Regional Water Supply Scheme	W	6,046,000	Kinaglesry Sewerage Scheme	S	654,000
Millstreet Wastewater Treatment Plant (Upgrade)	S	1,628,000	Midleton Wastewater Treatment Plant Extension	S	4,030,000

Cork County contd.

Water Services Investment Programme 2007 - 2009

Serviced Land Initiative contd.	W/S	Est. Cost	Schemes to Advance through Planning contd.	W/S	Est. Cost
Cork South contd.			Cork South		
Mogely Castlemarye & Lallysbridge Water Supply Scheme	W	2,566,000	Carriaghwill Sewerage Scheme (G)	S	20,000,000
North Cogh Sewerage Scheme (G)	S	3,193,000	Cork Sludge Management (G)	S	14,420,000
Rivestick Water Supply Scheme (incl. Sewerage)	W/S	525,000	Cork Water Supply Scheme (Storage - Mount Emla, Ballinoolig & Chetwind) (G)	W	8,500,000
Rohestown Water Supply Scheme	W	2,700,000	Intracama Water Treatment Plant (Sludge Treatment)(G/W)		5,356,000
Salven Sewerage Scheme	S	1,051,000	Macroom Sewerage Scheme	S	5,150,000
Youghal Water Supply Scheme	W	2,300,000	Minane Bridge Water Supply Scheme	W	1,421,000
Cork West			Cork West		
Castletownshend Sewerage Scheme	S	1,576,000	Bantry Regional Water Supply Scheme (Distribution)	W	9,455,000
		50,787,000	Cape Clear Water Supply Scheme	W	1,679,000
Rural Towns & Villages Initiative			Castletownbere Regional Water Supply Scheme		
			Glenamiff Sewerage Scheme	S	2,500,000
Cork North			Roscarberry/Owenahincha Sewerage Scheme		
Buttevant Sewerage Scheme (Collection System)	S	2,446,000	Skibbereen Regional Water Supply Scheme Stage 4	W	7,880,000
Doneraile Sewerage Scheme (Collection System)	S	1,738,000			95,646,000
Cork South			Water Conservation Allocation		
Imishammon (Ballinacoe/Ballinsplee/Garretstown) Water Supply Scheme	W	6,726,000	Asset Management Study		300,000
Cork West			South Western River Basin District (WFD) Project ¹		
Ballydy Sewerage Scheme	S	2,153,000			9,400,000
Baltimore Sewerage Scheme	S	3,162,000			
Castletownbere Sewerage Scheme	S	5,202,000			
Schull Sewerage Scheme	S	3,523,000			
		24,550,000	Programme Total		485,489,000
Schemes to Advance through Planning					
Cork North					
Milchtown North Galtees Water Supply Scheme	W	3,632,000			
Milchtown Sewerage Scheme	S	3,463,000			
Newmarket Sewerage Scheme	S	3,152,000			

¹ This project is being led by Cork County Council on behalf of other authorities in the River Basin District

(H) Refers to a Hub as designated in the National Spatial Strategy

(G) Refers to a Gateway as designated in the National Spatial Strategy

Cork County Council

Wastewater Discharge Licence Application under S.I. 684 of 2007 Regulations

Section G: Attachment No. G3
Impact Mitigation

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Attachment G.3. Impact Mitigation: Programme of Improvements

Cork County

Water Services Investment Programme 2007 - 2009

Schemes at Construction	W/S	Est. Cost	Schemes to start 2009 cont'd.	W/S	Est. Cost
Cork North			Cork South		
Mitchelstown Sewerage Scheme (Nutrient Removal)	S	221,000	Ballinoolig Sewerage Scheme (Upgrade) (G)	S	22,248,000
			Cork Lower Harbour Sewerage Scheme (excl. Crosshaven SS)S		73,542,000
Cork South			Shamagarry/Garryvoe/Ballyodan Sewerage Scheme	S	3,780,000
Ballycurney/ Ballymakeery Sewerage Scheme	S	3,049,000	Youghal Sewerage Scheme	S	14,420,000
Cobh/ Midleton/ Carrigrohilly Water Supply Scheme	W	10,135,000			
Cork Lower Harbour Sewerage Scheme (Crosshaven SS) (G)	S	4,850,000	Cork West		
Cork Water Strategy Study (G)	W	941,000	Ballydehob Sewerage Scheme	S	683,000
Kinsale Sewerage Scheme	S	20,000,000	Bantry Water Supply Scheme	W	14,935,000
Midleton Sewerage Scheme (Infiltration Reduction) (G)	S	2,078,000	Cork City Sewerage Scheme (Plant Capacity Increase)	S	3,677,000
		41,274,000	Courtmacsherry/ Timoleague Sewerage Scheme	S	2,472,000
Schemes to start 2007			Durmanway Regional Water Supply Scheme Stage 1	W	12,689,000
					164,629,000
Cork North			Service Land Initiative		
North Cork Grouped DBO Wastewater Treatment Plant (Buttevant, Doneraile & Kibrin)	S	5,150,000	Cork North		
			Ballydoogh Water Supply Scheme	W	139,000
Cork West			Ballydoolee Improvement Scheme	W/S	139,000
Skibbereen Sewerage Scheme	S	20,000,000	Broggilly-Pathgoggin Sewerage Scheme	S	405,000
		25,150,000	Bweeng Water Supply Scheme	W	115,000
Schemes to start 2008			Churchtown Sewerage Scheme (incl. Water)	W/S	543,000
Cork North			Condulane Sewage Treatment Plant	S	417,000
Malow/ Ballywinter Regional Water Supply Scheme (H) W	W	8,652,000	Fremont Sewerage Scheme	S	180,000
Malow Sewerage Scheme (H)	S	5,408,000	Flke Road Sewerage Scheme (incl. Water)	W/S	2,080,000
			Pathgoggin Sewerage Scheme (incl. Water)	W/S	535,000
Cork South			Shamagarry Sewerage Scheme	S	735,000
Ballinoolig Sewerage Scheme (Nutrient Removal) (G)	S	948,000	Uppal Farmoy Sewerage Scheme (incl. Water)	W/S	1,174,000
Ballingeary Sewerage Scheme	S	1,296,000	Watergrasshill Water Supply Scheme (incl. Sewerage) (G)	W/S	4,151,000
Bandon Sewerage Scheme Stage 2	S	14,729,000			
City Environs (CASP) Strategic Study (G)	S	2,000,000	Cork South		
Cloghros Sewerage Scheme (Upgrade)	S	823,000	Ballinoolig Sewerage Scheme (Bany's Rd Foulard Storm Drainage) (G)	S	1,164,000
Coashford Water Supply Scheme	W	1,334,000	Belgodey Water Supply Scheme (incl. Sewerage)	W/S	2,913,000
Garretstown Sewerage Scheme	S	2,153,000	Bantry Water Supply Scheme (Ext. to Station Rd) (G)	W	416,000
Inniscauna Water Treatment Plant Extension Phase 1	W	2,678,000	Carrigrohilly Sewerage Scheme (Treatment and Storm Drain) (G)	S	7,632,000
Little Island Sewerage Scheme (G)	S	2,200,000	Castlemartyr Wastewater Treatment Plant Extension	S	1,200,000
			Crookstown Sewerage Scheme (incl. Water)	W/S	1,200,000
Cork West			Dipsay Water Supply Scheme (incl. Sewerage)	W/S	1,112,000
Bantry Sewerage Scheme	S	7,148,000	Glurthene Sewerage Scheme (G)	S	1,576,000
Durmanway Sewerage Scheme	S	2,153,000	Irishannon Sewerage Scheme	S	277,000
Leap/ Baltimore Water Supply Scheme	W	6,365,000	Irishannon Wastewater Treatment Plant	S	684,000
Schull Water Supply Scheme	W	5,253,000	Kerrypike Sewerage Scheme	S	832,000
		61,137,000	Kerrypike Water Supply Scheme	W	416,000
Schemes to start 2009			Kilkeogh Wastewater Treatment Plant Extension	S	1,200,000
Cork North			Kilkeogh Water Supply Scheme (includes Sewerage)	W/S	485,000
Banteen/Dromahane Regional Water Supply Scheme	W	1,576,000	Kilbena Sewerage Scheme	S	420,000
Conna Regional Water Supply Scheme Extension	W	2,627,000	Kinagadee Sewerage Scheme	S	684,000
Cork NE Water Supply Scheme	W	4,326,000	Midleton Wastewater Treatment Plant Extension	S	4,030,000
Cork NW Regional Water Supply Scheme	W	6,046,000			
Millstreet Wastewater Treatment Plant (Upgrade)	S	1,628,000			

Cork County contd.

Water Services Investment Programme 2007 - 2009

Serviced Land Initiative contd.	W/S	Est. Cost	Schemes to Advance through Planning contd.	W/S	Est. Cost
Cork South contd.			Cork South		
Mogely Castlemarye & Lallysbridge Water Supply Scheme	W	2,566,000	Carriwohill Sewerage Scheme (G)	S	20,000,000
North Cogh Sewerage Scheme (G)	S	3,193,000	Cork Sludge Management (G)	S	14,420,000
Rivestick Water Supply Scheme (incl. Sewerage)	W/S	525,000	Cork Water Supply Scheme (Storage - Mount Emla, Ballinoolig & Chetwind) (G)	W	8,500,000
Rohestown Water Supply Scheme	W	2,700,000	Intracama Water Treatment Plant (Sludge Treatment)(G/W)		5,356,000
Salven Sewerage Scheme	S	1,051,000	Macroom Sewerage Scheme	S	5,150,000
Youghal Water Supply Scheme	W	2,300,000	Minane Bridge Water Supply Scheme	W	1,421,000
Cork West			Cork West		
Castletownshend Sewerage Scheme	S	1,576,000	Bantry Regional Water Supply Scheme (Distribution)	W	9,455,000
		50,787,000	Cape Clear Water Supply Scheme	W	1,679,000
Rural Towns & Villages Initiative			Castletownbere Regional Water Supply Scheme		
			Glenamiff Sewerage Scheme	S	2,500,000
Cork North			Roscarberry/Owenahincha Sewerage Scheme		
Buttevant Sewerage Scheme (Collection System)	S	2,446,000	Skibbereen Regional Water Supply Scheme Stage 4	W	7,880,000
Doneraile Sewerage Scheme (Collection System)	S	1,738,000			95,646,000
Cork South			Water Conservation Allocation		
Imishammon (Ballinacoe/Ballinspittle/Garretstown) Water Supply Scheme	W	6,726,000	Asset Management Study		300,000
Cork West			South Western River Basin District (WFD) Project ¹		
Ballyidy Sewerage Scheme	S	2,153,000			9,400,000
Baltimore Sewerage Scheme	S	3,162,000			
Castletownbere Sewerage Scheme	S	5,202,000			
Schull Sewerage Scheme	S	3,523,000			
		24,550,000	Programme Total		485,489,000
Schemes to Advance through Planning					
Cork North					
Milchdstown North Galtees Water Supply Scheme	W	3,632,000			
Milchdstown Sewerage Scheme	S	3,463,000			
Newmarket Sewerage Scheme	S	3,152,000			

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(H) Refers to a Hub as designated in the National Spatial Strategy

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Cork County Council

Wastewater Discharge Licence Application under S.I. 684 of 2007 Regulations

Section G: Attachment No. G4
Storm Water Overflow

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Attachment G.4. Storm Water Overflow: Programme of Improvements

Cork County					
Water Services Investment Programme 2007 - 2009					
Schemes at Construction	W/S	Est. Cost	Schemes to start 2009 cont'd.	W/S	Est. Cost
Cork North			Cork South		
Mitchelstown Sewerage Scheme (Nutrient Removal)	S	221,000	Ballincollig Sewerage Scheme (Upgrade) (G)	S	22,248,000
			Cork Lower Harbour Sewerage Scheme (excl. Crosshaven SS/S)	S	73,542,000
Cork South			Sharnagarry/ Garryvoss/ Ballycotton Sewerage Scheme	S	3,780,000
Ballycurney/ Ballymakeery Sewerage Scheme	S	3,049,000	Youghal Sewerage Scheme	S	14,420,000
Cobh/ Midleton/ Carrigrohilly Water Supply Scheme	W	10,135,000			
Cork Lower Harbour Sewerage Scheme (Crosshaven SS) (G)	S	4,850,000	Cork West		
Cork Water Strategy Study (G)	W	941,000	Ballydoob Sewerage Scheme	S	693,000
Kinsale Sewerage Scheme	S	20,000,000	Bantry Water Supply Scheme	W	14,935,000
Midleton Sewerage Scheme (Infiltration Reduction) (G)	S	2,078,000	Cork City Sewerage Scheme (Plant Capacity Increase)	S	3,677,000
		41,274,000	Courtmashery/ Timoleague Sewerage Scheme	S	2,472,000
Schemes to start 2007			Durmanway Regional Water Supply Scheme Stage 1	W	12,699,000
					164,629,000
Cork North			Service Land Initiative		
North Cork Grouped DBO Wastewater Treatment Plant (Butvant, Donersale & Kibrin)	S	5,150,000	Cork North		
Cork West			Ballydoogh Water Supply Scheme	W	139,000
Skibbereen Sewerage Scheme	S	20,000,000	Ballydooley Improvement Scheme	W/S	139,000
		25,150,000	Broghill-Rathgoggin Sewerage Scheme	S	405,000
Schemes to start 2008			Bweng Water Supply Scheme	W	115,000
Cork North			Churchtown Sewerage Scheme (incl. Water)	W/S	543,000
Mallow/ Ballywinter Regional Water Supply Scheme (H) W	W	8,852,000	Clonlara Sewerage Treatment Plant	S	417,000
Mallow Sewerage Scheme (H)	S	5,408,000	Fremont Sewerage Scheme	S	100,000
			Phonac Sewerage Scheme (incl. Water)	W/S	2,080,000
Cork South			Phonac Sewerage Scheme (incl. Water)	W/S	535,000
Ballincollig Sewerage Scheme (Nutrient Removal) (G)	S	948,000	Ros Glen Sewerage Scheme	S	736,000
Ballingeary Sewerage Scheme	S	1,200,000	Uplands Farmcy Sewerage Scheme (incl. Water)	W/S	1,174,000
Bandon Sewerage Scheme Stage 2	S	1,429,000	Watergrasshill Water Supply Scheme (incl. Sewerage) (G)	W/S	4,151,000
City Environs (CASP) Strategic Study (G)	S	84,000			
Clonroo Sewerage Scheme (Upgrade)	S	883,000	Cork South		
Coadford Water Supply Scheme	W	1,318,000	Ballincollig Sewerage Scheme (Barr's Rd Foulard Storm Drainage) (G)	S	1,164,000
Garrettsown Sewerage Scheme	S	2,153,000	Belgrove Water Supply Scheme (incl. Sewerage)	W/S	2,913,000
Inniscurra Water Treatment Plant Extension Phase 1	W	2,678,000	Barny Water Supply Scheme (Ext. to Station Rd) (G)	W	416,000
Little Island Sewerage Scheme (G)	S	2,200,000	Carrigrohilly Sewerage Scheme (Treatment and Storm Drain) (G)	S	7,632,000
			Castlemartyr Wastewater Treatment Plant Extension	S	1,200,000
Cork West			Crookstown Sewerage Scheme (incl. Water)	W/S	1,200,000
Bantry Sewerage Scheme	S	7,148,000	Dipseay Water Supply Scheme (incl. Sewerage)	W/S	1,112,000
Durmanway Sewerage Scheme	S	2,153,000	Glantham Sewerage Scheme (G)	S	1,576,000
Leap/ Baltimore Water Supply Scheme	W	6,365,000	Inishannon Sewerage Scheme	S	277,000
Sohull Water Supply Scheme	W	5,253,000	Inishannon Wastewater Treatment Plant	S	694,000
		61,137,000	Kearypike Sewerage Scheme	S	832,000
Schemes to start 2009			Kearypike Water Supply Scheme	W	495,000
Cork North			Kilbegh Wastewater Treatment Plant Extension	S	1,200,000
Banter/Dromahane Regional Water Supply Scheme	W	1,576,000	Kilbegh Water Supply Scheme (includes Sewerage)	W/S	485,000
Conna Regional Water Supply Scheme Extension	W	2,627,000	Kilbrens Sewerage Scheme	S	420,000
Cork NE Water Supply Scheme	W	4,326,000	Kinaglesry Sewerage Scheme	S	694,000
Cork NW Regional Water Supply Scheme	W	6,046,000	Midleton Wastewater Treatment Plant Extension	S	4,030,000
Millstreet Wastewater Treatment Plant (Upgrade)	S	1,628,000			

Cork County contd.

Water Services Investment Programme 2007 - 2009

Serviced Land Initiative contd.	W/S	Est. Cost	Schemes to Advance through Planning contd.	W/S	Est. Cost
Cork South contd.			Cork South		
Mogely Castlemarye & Lallysbridge Water Supply Scheme	W	2,566,000	Carriaghwill Sewerage Scheme (G)	S	20,000,000
North Cogh Sewerage Scheme (G)	S	3,193,000	Cork Sludge Management (G)	S	14,420,000
Rivestick Water Supply Scheme (incl. Sewerage)	W/S	525,000	Cork Water Supply Scheme (Storage - Mount Emla, Ballinoolig & Chetwind) (G)	W	8,500,000
Rohestown Water Supply Scheme	W	2,700,000	Intracama Water Treatment Plant (Sludge Treatment)(G/W)		5,356,000
Salven Sewerage Scheme	S	1,051,000	Macroom Sewerage Scheme	S	5,150,000
Youghal Water Supply Scheme	W	2,300,000	Minane Bridge Water Supply Scheme	W	1,421,000
Cork West			Cork West		
Castletownshend Sewerage Scheme	S	1,576,000	Bantry Regional Water Supply Scheme (Distribution)	W	9,455,000
		50,787,000	Cape Clear Water Supply Scheme	W	1,679,000
Rural Towns & Villages Initiative			Castletownbere Regional Water Supply Scheme		
			Glenamiff Sewerage Scheme	S	2,500,000
Cork North			Roscarberry/Owenahinchu Sewerage Scheme		
Buttevant Sewerage Scheme (Collection System)	S	2,446,000	Skibbereen Regional Water Supply Scheme Stage 4	W	7,880,000
Doneraile Sewerage Scheme (Collection System)	S	1,738,000			95,646,000
Cork South			Water Conservation Allocation		
Imishammon (Ballinacoe/Ballinspittle/Garretstown) Water Supply Scheme	W	6,726,000	Asset Management Study		300,000
Cork West			South Western River Basin District (WFD) Project ¹		
Ballyidy Sewerage Scheme	S	2,153,000			9,400,000
Baltimore Sewerage Scheme	S	3,162,000			
Castletownbere Sewerage Scheme	S	5,202,000			
Schull Sewerage Scheme	S	3,523,000			
		24,550,000	Programme Total		485,489,000
Schemes to Advance through Planning					
Cork North					
Milchdstown North Galtees Water Supply Scheme	W	3,632,000			
Milchdstown Sewerage Scheme	S	3,463,000			
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