

SECTION E MONITORING

Advice on completing this section is provided in the accompanying Guidance Note.

E.1 Waste Water Discharge Frequency and Quantities – Existing & Proposed

Provide an estimation of the quantity of waste water likely to be emitted in relation to all primary and secondary discharge points applied for. This information should be included in Table E.1(i) of the Annex. The primary discharge shall be annotated with a **(P)**.

Provide an estimation of the quantity of waste water likely to be emitted in relation to all storm water overflows within the agglomeration applied for. This information should be included in Table E.1(ii) of the Annex.

E.2. Monitoring and Sampling Points

Programmes for environmental monitoring should be submitted as part of the application. These programmes should be provided as Attachment E.2.

Reference should be made to, provision of sampling points and safe means of access, sampling methods, analytical and quality control procedures, including equipment calibration, equipment maintenance and data recording/reporting procedures to be carried out in order to ensure accurate and reliable monitoring.

In determining the sampling programme to be carried out, the variability of the emission and its effect on the receiving environment should be considered.

Details of any accreditation or certification of analysis should be included.

Attachment E.2 should contain any supporting information.

Attachment included	Yes	No

E.3. Tabular data on Monitoring and Sampling Points

Applicants should submit the following information for each monitoring and sampling point:

PT_CD	PT_TYPE	MON_TYPE	EASTING	NORTHING	VERIFIED
Point Code Provide label ID's assigned in section E of application	Point Type (e.g., Primary, Secondary, Storm Water Overflow)	Monitoring Type M = Monitoring S = Sampling	6E-digit GPS Irish National Grid Reference	6N-digit GPS Irish National Grid Reference	Y = GPS used N = GPS not used

An individual record (i.e., row) is required for each discharge point. Acceptable file formats include Excel, Access or other upon agreement with the Agency. A standard Excel template can be downloaded from the EPA website at www.epa.ie. This data should be submitted to the Agency on a separate CD-Rom containing sections B.1, B.2, B.3, B.4, B.5, C.1, D.2 and F.2.

E.4 Sampling Data

Regulation 16(1)(h) of the Waste Water Discharge (Authorisation) Regulations 2007 requires all applicants in the case of an existing waste water treatment plant to specify the sampling data pertaining to the discharge based on the samples taken in the 12 months preceding the making of the application.

Regulation 16(1)(l) of the regulations requires applicants to give details of compliance with any applicable monitoring requirements and treatment standards.

Attachment E.4 should contain any supporting information.

Attachment included	Yes	No

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

Section E – South Dublin County Council

- (i) *Clarify whether all pump stations overflows are operated in emergency circumstances only or under any other circumstances*

Response

The majority of pumping stations operated by South Dublin County Council operate only in emergency situations. Emergency overflows are very rare and normally due to catastrophic failure of the pump station. South Dublin County Council has put in place necessary supervision and telemetry alarm systems on all pump stations to ensure early detection of problems, so that such problems can be rectified prior to overflow situations. Supervision is carried out daily and the telemetry alarm signal is sent by phone / sms to the area drainage inspector or a deputy inspector in the event a pump failure of a high level sump alarm being activated. This is done on a 24/7 basis. An emergency crew on-call system is in place which also operates 24/7.

Ballymanagan Pump Station (SDCCPS07), Newcastle Ejector(SDCCPS08) / Newcastle Pump Station(SDCCPS09) and Rathcoole (Tay Lane) Pump Station(SDCCPS10) are occasionally prone to storm overflow situations. This occurs during prolonged heavy rain events and is due to infiltration of surfacewater into the foul sewers feeding the pumping stations. During such heavy rainfall events the capacity of the pumping station is compromised resulting in overflow situations. (In the case of the Newcastle Pumping Station, however, additional storage capacity of c.1125cu.m is available prior to any overflow scenario).

- (ii) *Provide an explanation for the frequency of discharge at SDCCPS9a and 10a and any mitigation measures proposed*

Response

Newcastle Pump Station(SDCCPS09) and Rathcoole (Tay Lane) Pump Station(SDCCPS10) are occasionally prone to storm overflow situations. This occurs during prolonged heavy rain events and is due to infiltration of surfacewater into the foul sewers feeding the pumping stations. During such heavy rainfall events the capacity of the pumping station is compromised resulting in overflow situations. In the case of the Newcastle Pumping Station, however, additional storage capacity of c.1125 cu.m is available prior to any overflow scenario. The stated overflow rate in Annex 1 of <5 days/years relates to overflow from the pumping station into the attenuation holding tank. Overflow from this tank to the adjacent watercourse occurs less often.

Complete sections E.2 and E.3 for Phosphorous Regulations, Dangerous Substances Regulations and Water Framework Directive monitoring

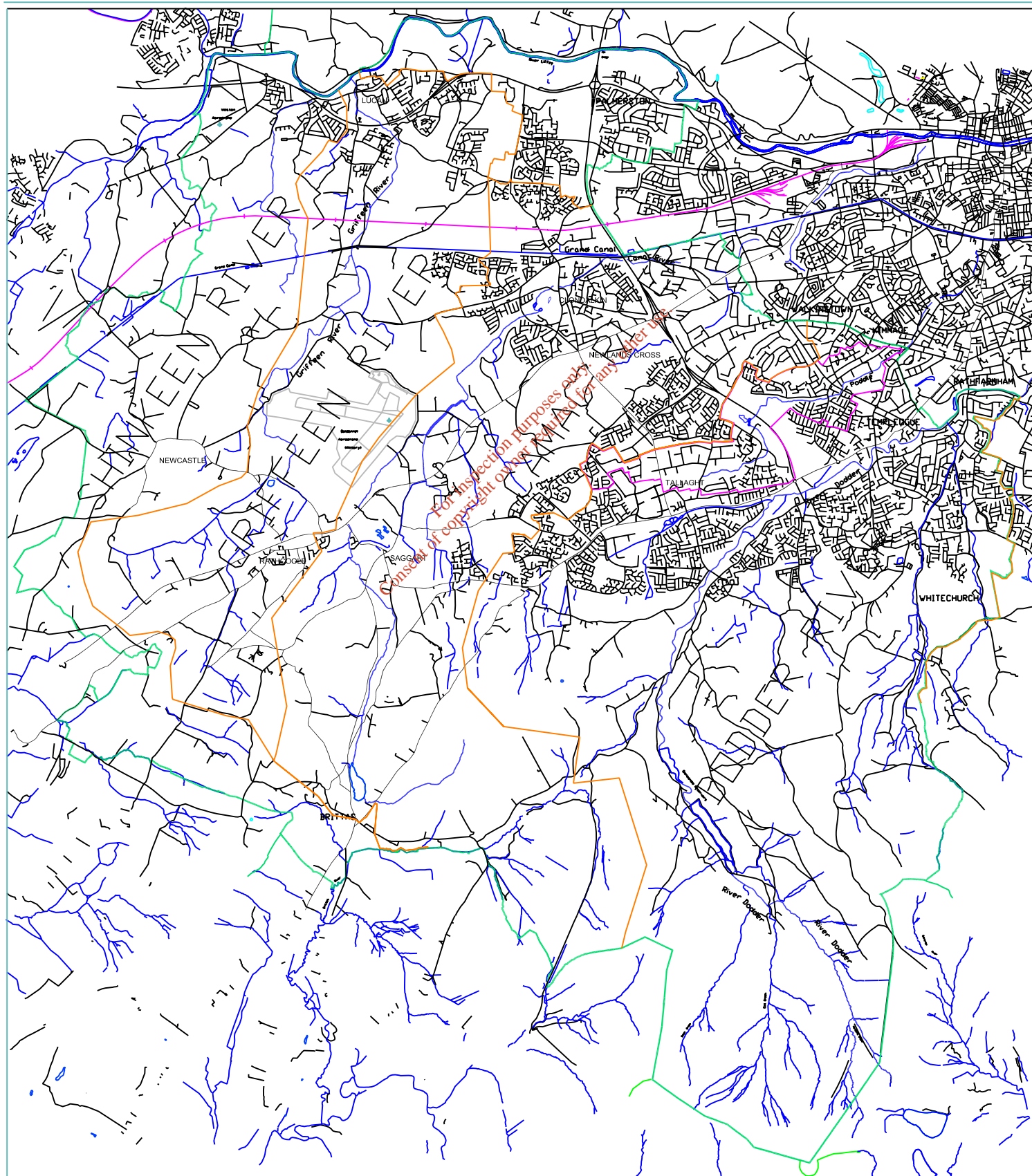
Table for E.3

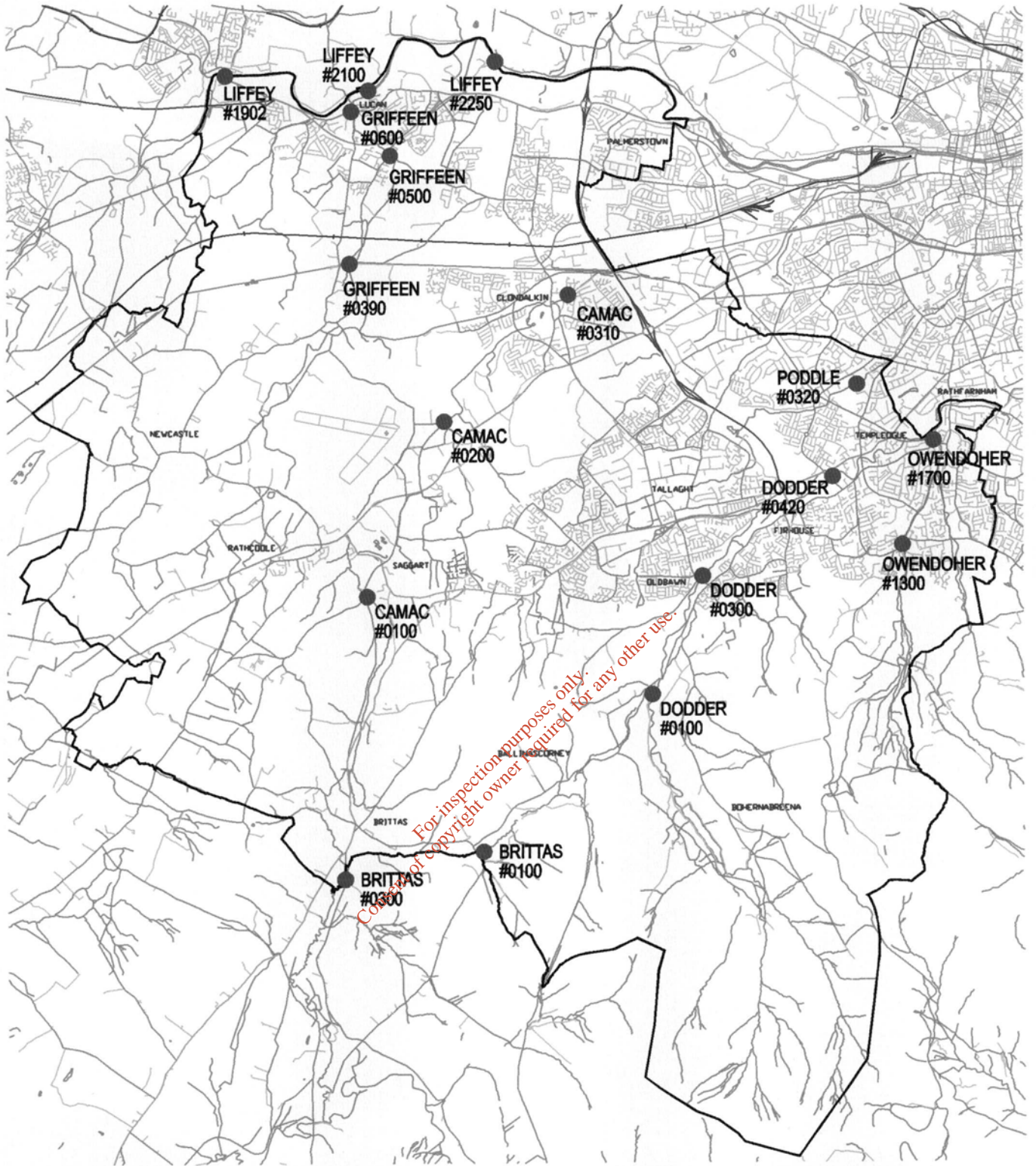
PT_CD	PT_TYPE	MON_TY PE	Easting	Northing	Verified
<i>Point Code Provide label ID's assigned in section E of application</i>	<i>Point Type (e.g., Primarv. Secondary, Storm Water Overflow)</i>	<i>Monitoring Type M = Monitoring S = Sampling</i>	<i>6E-digit GPS Irish National Grid Reference</i>	<i>6N-digit GPS Irish National Grid Reference</i>	<i>Y = GPS used N = GPS not used</i>
SW01SouthDublin	Storm Water Overflow	N/A	N/A	N/A	
SW02SouthDublin	Storm Water Overflow	N/A	N/A	N/A	
SW03SouthDublin	Storm Water Overflow	N/A	N/A	N/A	
SW04SouthDublin	Storm Water Overflow	N/A	N/A	N/A	
SW05SouthDublin	Storm Water Overflow	N/A	N/A	N/A	
SW05aSouthDublin	Storm Water Overflow	N/A	N/A	N/A	
SW06SouthDublin	Storm Water Overflow	N/A	N/A	N/A	
SW07SouthDublin	Storm Water Overflow	N/A	N/A	N/A	
SW08SouthDublin	Storm Water Overflow	N/A	N/A	N/A	
SW09SouthDublin	Storm Water Overflow	N/A	N/A	N/A	
SW10SouthDublin	Storm Water Overflow	N/A	N/A	N/A	
SW11SouthDublin	Storm Water Overflow	N/A	N/A	N/A	
SW12SouthDublin	Storm Water Overflow	N/A	N/A	N/A	
SW13SouthDublin	Storm Water Overflow	N/A	N/A	N/A	
SW14SouthDublin	Storm Water Overflow	N/A	N/A	N/A	
SW15SouthDublin	Emergency Overflow	N/A	N/A	N/A	
SW16SouthDublin	Emergency Overflow	N/A	N/A	N/A	
SW17SouthDublin	Emergency Overflow	N/A	N/A	N/A	
SW18SouthDublin	Emergency Overflow	N/A	N/A	N/A	
SW19SouthDublin	Emergency Overflow	N/A	N/A	N/A	
SW20SouthDublin	Emergency Overflow	N/A	N/A	N/A	
SW21SouthDublin	Emergency Overflow	N/A	N/A	N/A	
SW22SouthDublin	Emergency Overflow	N/A	N/A	N/A	
SW22aSouthDublin	Emergency Overflow	N/A	N/A	N/A	
SW23SouthDublin	Emergency Overflow	N/A	N/A	N/A	
SW24SouthDublin	Emergency Overflow	N/A	N/A	N/A	
Sw25SouthDublin	Emergency Overflow	N/A	N/A	N/A	
SW26SouthDublin	Emergency Overflow	N/A	N/A	N/A	
Sw27SouthDublin	Emergency Overflow	N/A	N/A	N/A	
09B020100	WFD/DS/P	BRITTAS	305598	221227	
09C020100	WFD/DS/P	CAMAC	303438	226052	
09C020250	WFD/DS/P	CAMAC	304910	229251	
09C020310	WFD/DS/P	CAMAC	307211	231600	
09D010100	WFD/DS/P	DODDER	308845	224052	
09D010300	WFD/DS/P	DODDER	309739	226304	
09D010620	WFD/DS/P	DODDER	313606	228913	
	WFD/DS/P	DODDER			
09L011900	WFD/DS/P	LIFFEY	300748	235823	
09L012030	WFD/DS/P	LIFFEY	302130	235374	
09L012100	WFD/DS/P	LIFFEY	303486	235516	
09L012250	WFD/DS/P	LIFFEY	304118	236417	
09L012300	WFD/DS/P	LIFFEY	308894	235774	

09O011100	WFD/DS/P	OWENADC	313322	223927
09O011300	WFD/DS/P	OWENADC	313600	226813
09O011700	WFD/DS/P	OWENADC	314123	229007
09P030400	WFD/DS/P	PODDLE	312639	229969

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

SOUTH DUBLIN COUNTY COUNCIL RIVER CATCHMENT



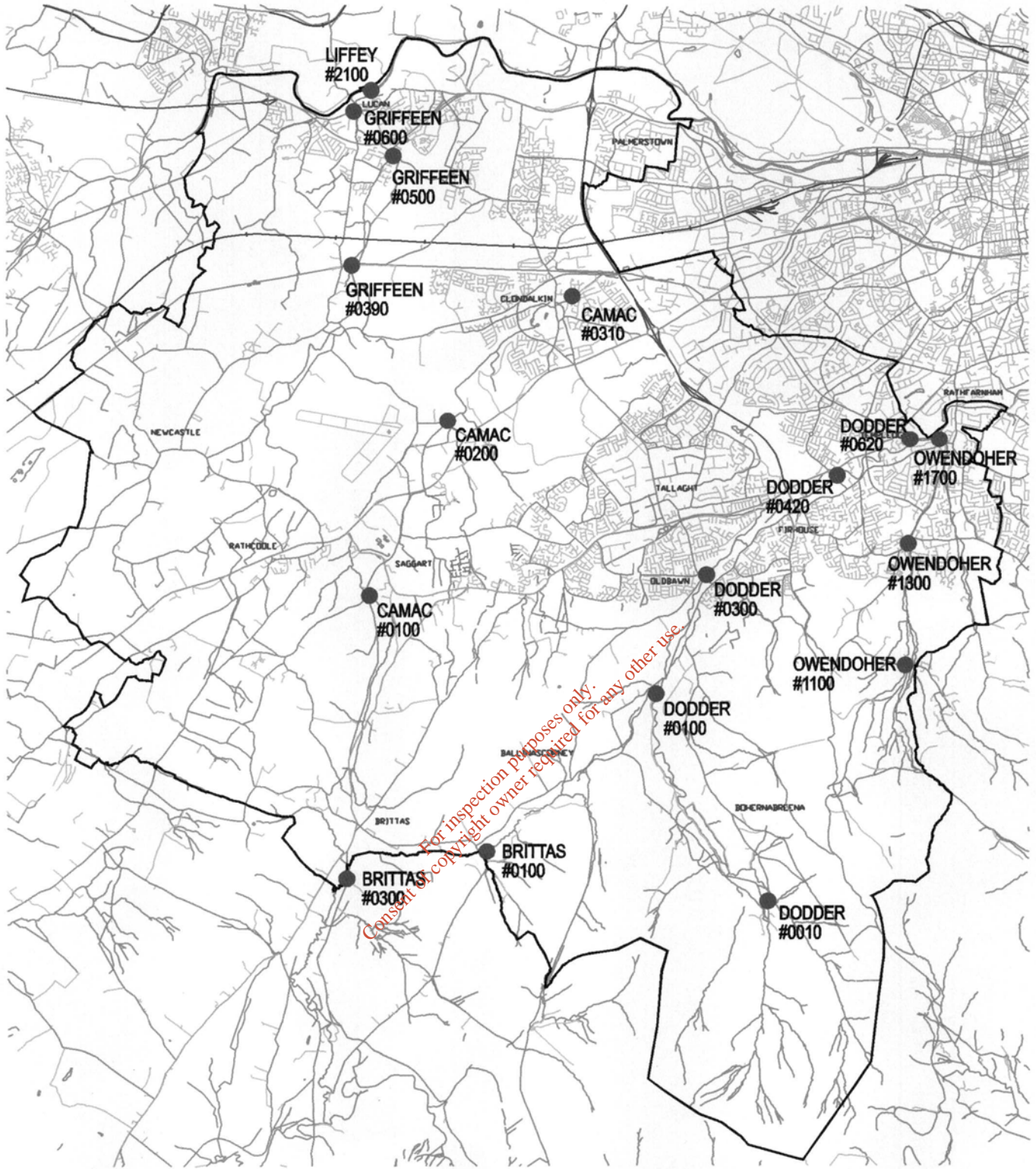


SOUTH DUBLIN COUNTY COUNCIL



DANGEROUS SUBSTANCES MEASURES PROGRAMME

RIVER MONITORING NETWORK

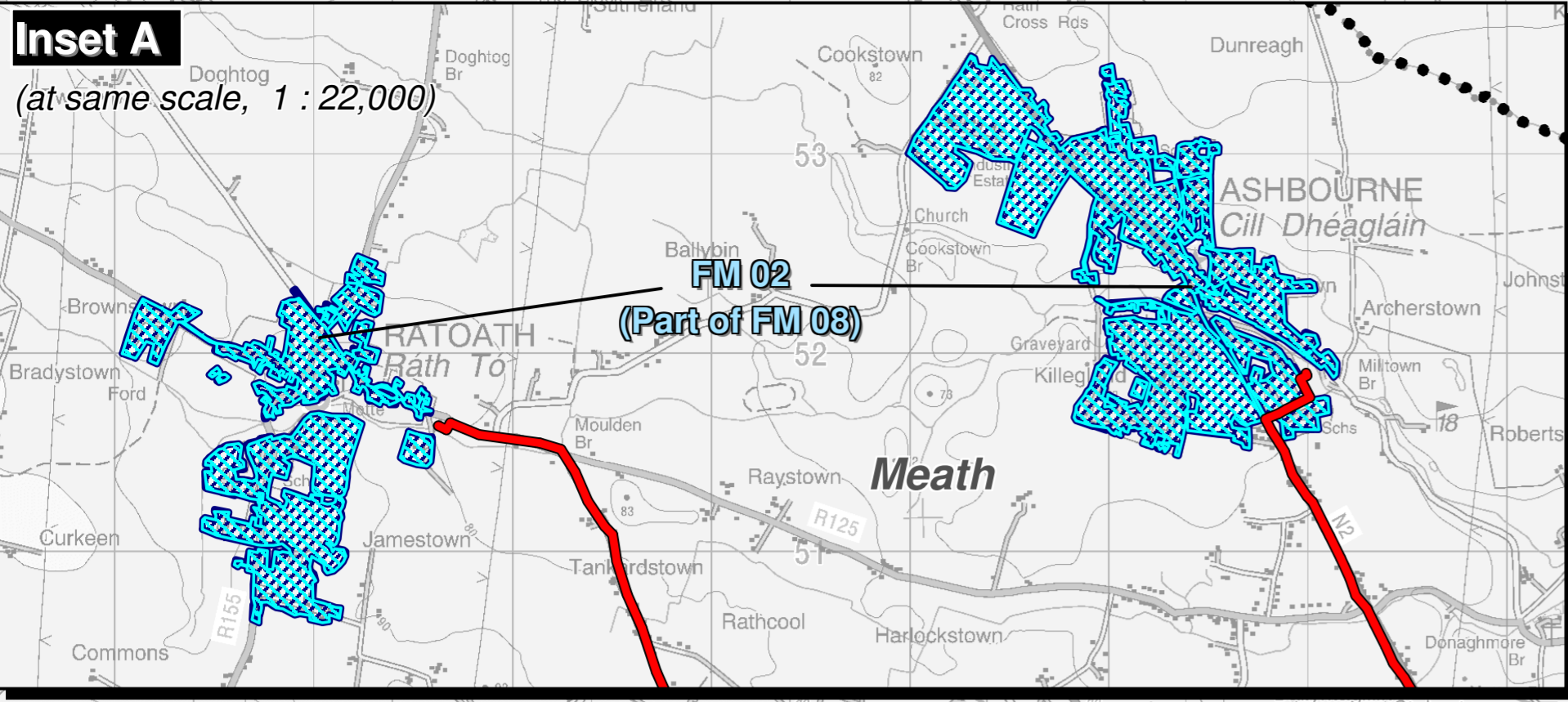


For inspection purposes only.
 Copyright owner required for any other use.



SOUTH DUBLIN COUNTY COUNCIL
PHOSPHORUS MEASURES PROGRAMME
RIVER MONITORING NETWORK

Inset A
(at same scale, 1 : 22,000)



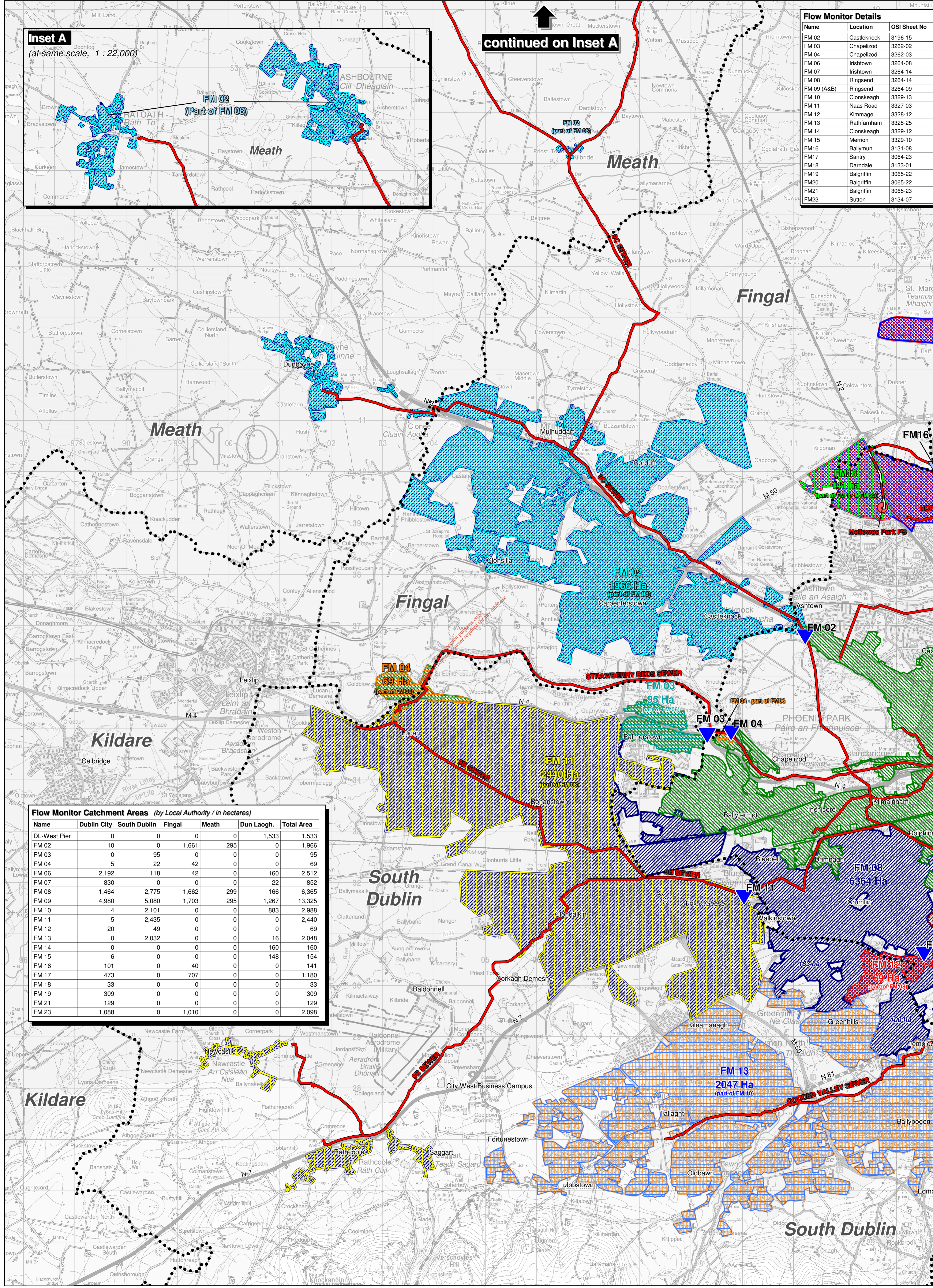
continued on Inset A

Flow Monitor Details

Name	Location	OSI Sheet No
FM 02	Castleknock	3196-15
FM 03	Chapelizod	3262-02
FM 04	Chapelizod	3262-03
FM 06	Irishtown	3264-08
FM 07	Irishtown	3264-14
FM 08	Ringsend	3264-14
FM 09 (A&B)	Ringsend	3264-09
FM 10	Clonskeagh	3329-13
FM 11	Naas Road	3327-03
FM 12	Kimmage	3328-12
FM 13	Rathfarnham	3328-25
FM 14	Clonskeagh	3329-12
FM 15	Merrion	3329-10
FM16	Ballymun	3131-08
FM17	Santry	3064-23
FM18	Darndale	3133-01
FM19	Balgriffin	3065-22
FM20	Balgriffin	3065-22
FM21	Balgriffin	3065-23
FM23	Sutton	3134-07

Flow Monitor Catchment Areas (by Local Authority / in hectares)

Name	Dublin City	South Dublin	Fingal	Meath	Dun Laogh.	Total Area
DL-West Pier	0	0	0	0	1,533	1,533
FM 02	10	0	1,661	295	0	1,966
FM 03	0	95	0	0	0	95
FM 04	5	22	42	0	0	69
FM 06	2,192	118	42	0	160	2,512
FM 07	830	0	0	0	22	852
FM 08	1,464	2,775	1,662	299	166	6,365
FM 09	4,980	5,080	1,703	295	1,267	13,325
FM 10	4	2,101	0	0	883	2,988
FM 11	5	2,435	0	0	0	2,440
FM 12	20	49	0	0	0	69
FM 13	0	2,032	0	0	16	2,048
FM 14	0	0	0	0	160	160
FM 15	6	0	0	0	148	154
FM 16	101	0	40	0	0	141
FM 17	473	0	707	0	0	1,180
FM 18	33	0	0	0	0	33
FM 19	309	0	0	0	0	309
FM 21	129	0	0	0	0	129
FM 23	1,088	0	1,010	0	0	2,098



SUS No	Sewer	Pipe Size mm
SO11362706	Inflow from FCC (9C)	1500
SO09343802	Inflow from SDCC	375
SO09347802	Inflow from SDCC & FCC	450
SO18332805	City Centre Sewer	2500
SO18835603	R & P Sewer	1500
SO18334406	Grand Canal Tunnel Sewer	2600
SO18339804	Measure Flows from Six Pumps in MLPS	N/A
SO18300501	Inflow from SDCC & DLRC (DVS)	1500
SO10310701	Inflow from SDCC (9B)	1350
SO13305605	Inflow from SDCC	300
SO15293404	Inflow from SDCC (DVS)	1500
SO17305601	Inflow from DLRC	450
SO19305902	Inflow from DLRC	450
SO13407004	Inflow from FCC	1000
SO17417001	Inflow from FCC	1000
SO19409901	DCC -- Darndale Branch Sewer	375
SO21412003	DCC -- Malahide Road Branch Sewer	750
SO21412102	FCC -- Balgriffin Branch Sewer	525
SO22412102	DCC -- Grange Road Branch Sewer	525
SO25390706	DCC -- North Fringe Pressure Sewer (Total N.Fringe flows to Sutton PS)	1600

Legend

PERMANENT FLOW MONITOR LOCATIONS

- ▼ GSDS (installed)
- ▽ North Fringe (proposed to be installed)

PERMANENT FLOW MONITOR CATCHMENTS

- FM 09 covers all FMs outside North Fringe and is only shown on the context map
- FM 23 Covers all North Fringe FMs
- Reference FM 01, FM 05 & FM 22 do not exist

- FM 02 (Phoenix Park)
- FM 03 (N4 Slip Road)
- FM 04 (O/S No. 28 Belgrave Lawn)
- FM 06 (Ringsend Pump off Rope Walk Place)
- FM 07 (In Car Park off Strand Street)
- FM 08 (Church Avenue)
- FM 09 (Main Lift Pumping Station; covers almost all other catchments; only shown on context map)
- FM 10 (Horticultural Dept., UCD)
- FM 11 (Naas Road; near Statioil)
- FM 12 (O/S No. 344 Lr. Kimmage Road)
- FM 13 (Woodside and Braemor Road Junction)
- FM 14 (O/S G&T Crampton Ltd, Beech Hill Road)
- FM 15 (In Grounds of St. Marys Home for the Blind)
- Dun Laoghaire - West Pier

NORTH FRINGE PERMANENT FLOW MONITOR CATCHMENTS

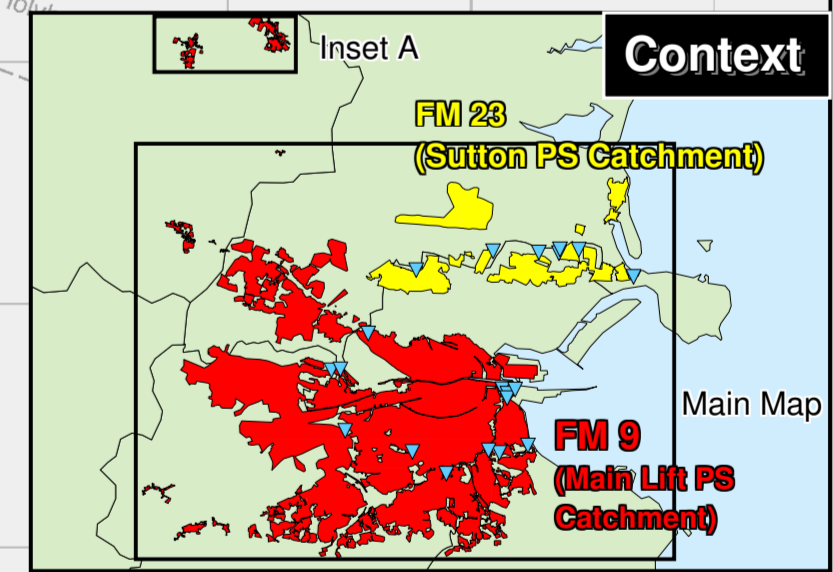
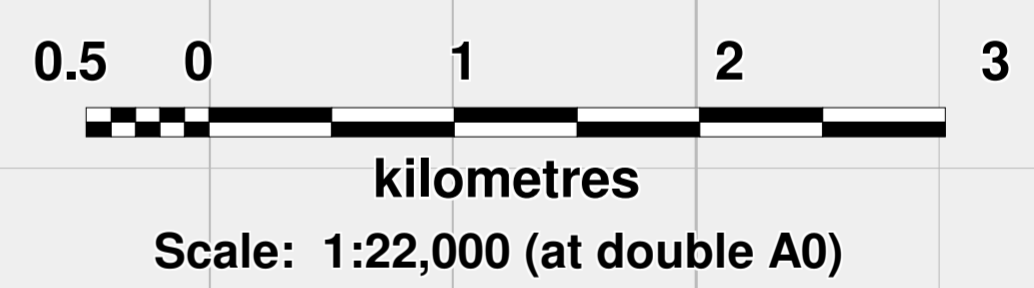
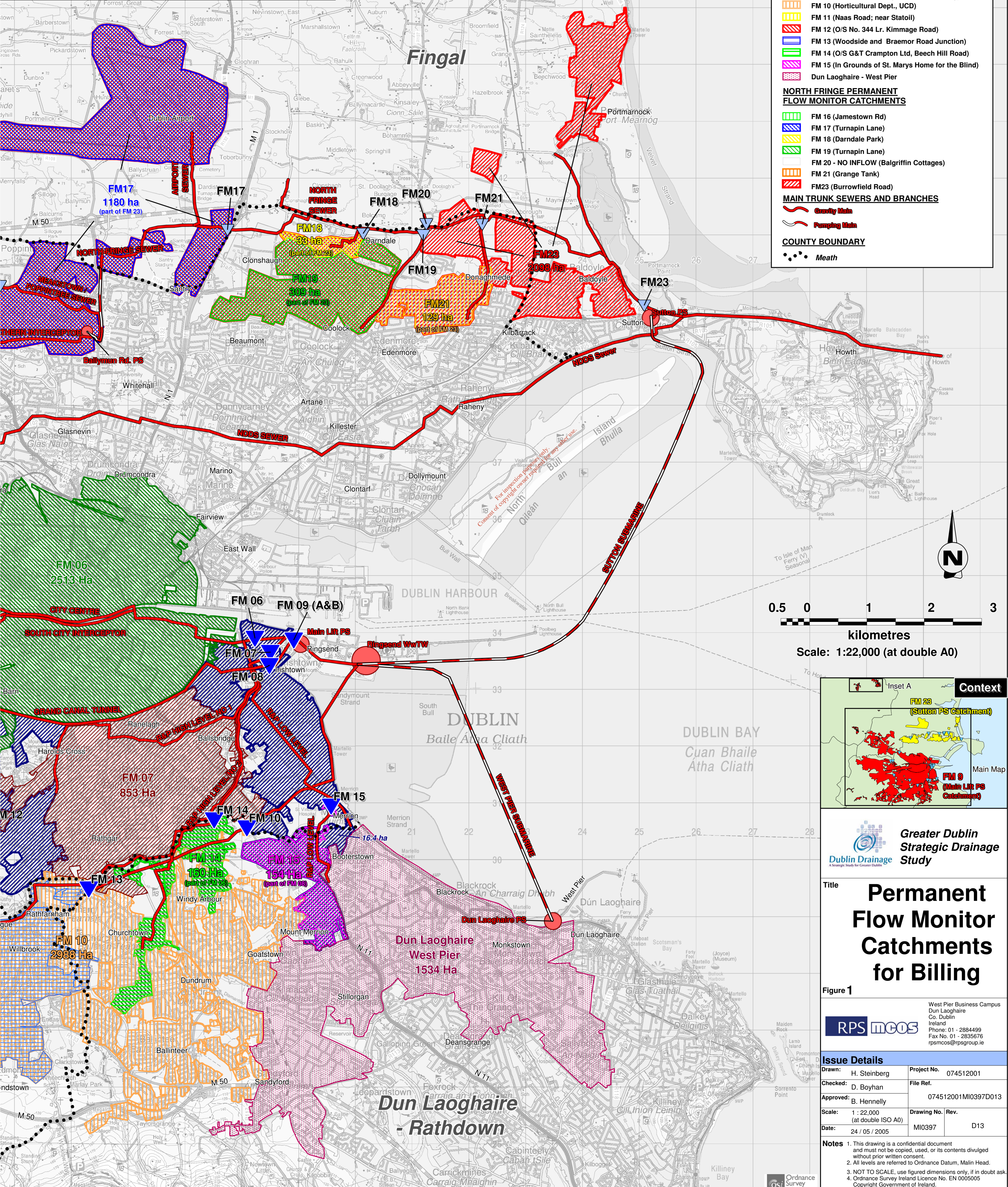
- FM 16 (Jamestown Rd)
- FM 17 (Turnapin Lane)
- FM 18 (Darndale Park)
- FM 19 (Turnapin Lane)
- FM 20 - NO INFLOW (Balgriffin Cottages)
- FM 21 (Grange Tank)
- FM 23 (Burrowfield Road)

MAIN TRUNK SEWERS AND BRANCHES

- Gravity Main
- Pumping Main

COUNTY BOUNDARY

- Meath



Greater Dublin Strategic Drainage Study
Dublin Drainage

Permanent Flow Monitor Catchments for Billing

Figure 1

West Pier Business Campus
Dun Laoghaire
Co. Dublin
Ireland
Phone: 01 - 2884499
Fax No. 01 - 2835676
rpsmc@rpsgroup.ie

Issue Details	
Drawn: H. Steinberg	Project No. 074512001
Checked: D. Boyhan	File Ref. 074512001M10397D013
Approved: B. Hennelly	Drawing No. Rev. MI0397 D13
Scale: 1:22,000 (at double ISO A0)	
Date: 24 / 05 / 2005	

Notes

- This drawing is a confidential document and must not be copied, used, or its contents divulged without prior written consent.
- All levels are referred to Ordnance Datum, Malin Head.
- NOT TO SCALE, use figured dimensions only, if in doubt ask.
- Ordnance Survey Ireland Licence No. EN 0005005 Copyright Government of Ireland.

Report for Samples Taken During the Period: 01/01/2007 - 04/10/2007

Customer: South Dublin Co. Co.

Sample Type: 195 - Sewage Trans Boundary Samples

Ammonia B.O.D. C.O.D. Conductivity Extractable F.O.G. Nitrate
mg/l as N mg/l mg/l µS/cm mg/l mg/l as N

(86110) Trans Boundary Sewer SD01. Lucan Rd. (offN4) Stewarts Hospital

30/01/2007	5293		72.6		776	732	28	0.46
16/02/2007	8866		36.39	311	776	677	20	0.76
27/03/2007	16493		53.30		930	769		0.50
20/04/2007	21594		49.73	442	725	754	20	<0.37
09/05/2007	25411		73.67	449	856	889	16	<0.37
08/06/2007	32257		63.46	>401	1105	873	60	<0.37
03/08/2007	47341			318	697	817	16	
17/09/2007	59358		46.45		668	770	32	<0.37

(86115) Trans Boundary Sewer SD02. Belgrove Lawn, Palmerstown.

30/01/2007	5294		20.84			738	20	0.67
16/02/2007	8867		13.75	74	141	658	0	1.06
27/03/2007	16494		15.88		457	674		0.84
20/04/2007	21595		39.16	348	675	808	16	
09/05/2007	25412		27.55	172	408	665	20	<0.37
08/06/2007	32258		49.63	246	498	773	468	<0.37
03/08/2007	47342				242	713	0	
17/09/2007	59359		27.74		340	686	8	<0.37

(86120) Trans Boundary Sewer SD03. Naas Rd intersection with Longmile Rd.

30/01/2007	5295		29.33			822	28	<0.37
16/02/2007	8868		26.02	261	546	853	20	0.47
27/03/2007	16495		31.01		633	834		<0.37
20/04/2007	21596		39.42	432	929	1098	8	<0.37
09/05/2007	25413		44.13			935	40	<0.37
08/06/2007	32259			1000	1653	2970	16	<0.37
03/08/2007	47343			271	514	844	12	
17/09/2007	59360		136.47		1393	2280	32	<0.37

(86125) Trans Boundary Sewer - Walkinstown Park

30/01/2007	5346		5.48		85	837	4	
16/02/2007	8869		75.46	5248	16409	904	173	<0.37
27/03/2007	16496		14.82		774	910		4.87
20/04/2007	21597		17.79	135	291	820	4	2.69
09/05/2007	25414		15.85	111	229	853	40	2.91
08/06/2007	32260		44.10	247	553	893	4	2.85
03/08/2007	47344			49	110	984	0	
17/09/2007	59361		16.39		301	915	8	<0.37

(86130) TB Sewer SD05 Walkinstown Cres. Ballymount.

30/01/2007	5296		14.74			829	236	1.14
------------	------	--	-------	--	--	-----	-----	------

16/02/2007	8870		27.66	294	925	847	28	
27/03/2007	16497		13.28		1040	923		0.87
20/04/2007	21598		19.65	267	1034	623	16	<0.37
09/05/2007	25415		41.87	497	1095	783	40	<0.37
08/06/2007	32261		46.57	347	676	803	28	<0.37
03/08/2007	47345			240	623	848	24	
17/09/2007	59362		28.61		854	824	36	<0.37

(86135) TB Sewer SD06 Walkinstown Cross (Walk.Round.)

30/01/2007	5297		25.91			655	28	
16/02/2007	8871		9.82	295	277	591	24	3.68
27/03/2007	16498				372	541		1.68
20/04/2007	21599		20.94	410	944	585	28	1.04
09/05/2007	25416		20.62	463	777	546	324	0.89
08/06/2007	32262		11.15	598	859	785	20	1.23
03/08/2007	47346			372	657	671	24	
17/09/2007	59363		28.90		678	655	32	<0.37

(86140) TB Sewer SD07 Cromwellsfort X Moeran Road.

30/01/2007	5298		47.7			842	40	0.46
16/02/2007	8872		68.24	343	845	673	24	0.82
27/03/2007	16499		54.88		980	797		<0.37
20/04/2007	21600		24.57	584	984	725	24	<0.37
09/05/2007	25417		50.36	475	981	797	256	<0.37
08/06/2007	32263		50.90	>395	706	723	28	1.01
03/08/2007	47347			425	1131	912	36	
17/09/2007	59364		47.24		1222	873	48	<0.37

(86145) TB Sewer SD08 Whitehall Rd.W X Kimmage Rd.

30/01/2007	5299		0.27			171	8	0.62
16/02/2007	8873		1.15	<2	<10	173	4	0.97
27/03/2007	16500		1.89		231	364		0.82
20/04/2007	21601		25.33	362	894	373	12	0.53
09/05/2007	25418		2.03		174	253	116	0.59
08/06/2007	32264		0.94	62	122	285	0	0.59
03/08/2007	47348				163	436	4	
17/09/2007	59365		17.92		286	461	8	<0.37

(86150) TB Sewer SD09 Ravensdale Pk X Kimmage Rd.Lr.

30/01/2007	5300		56.91			650	32	0.66
16/02/2007	8874		23.6	221	696	687	20	1.34
27/03/2007	16501		36.24		719	704		0.63
20/04/2007	21602		33.25	330	625	717	20	<0.37
09/05/2007	25419		48.60	611	1563	952	160	<0.37
08/06/2007	32265		38.95	387	716	721	40	<0.37
03/08/2007	47349			229	637	689	0	
17/09/2007	59366		30.76		732	727	32	<0.37

(86155) TB Sewer SD10 Fortfield Rd X Greenlea Rd.

30/01/2007	5301		21.73			534	28	
16/02/2007	8875		16.97	181	406	494	28	1.26

27/03/2007	16502		16.64		513	494		0.73
20/04/2007	21603		22.00	210	436	513	4	0.50
09/05/2007	25420		20.53	196	358	464	100	<0.37
08/06/2007	32266		16.56	208	138	457	12	0.40
03/08/2007	47350			208	400	486	4	
17/09/2007	59367		40.61		477	618	16	<0.37

(86160) TB Sewer SD11 Fortfield Rd X Templeogue Rd.

30/01/2007	5302		21.16			684	36	
16/02/2007	8876		33.26	242	571	607	20	0.8
27/03/2007	16503		40.96		789	665		0.44
20/04/2007	21604			320	645	657	20	<0.37
09/05/2007	25421		36.31	280	538	677	12	<0.37
08/06/2007	32267		44.53	355	1026	614	24	<0.37
03/08/2007	47351			294	336	699	8	
17/09/2007	59368		32.51		722	710	20	<0.37

(86165) Trans Boundary Sewer SD12. Dodder Pk./Braemor intersection with Dodder Rd

30/01/2007	5303		50.79			785	20	
16/02/2007	8877		59.76	481	741	803	20	0.66
27/03/2007	16504		50.88		915	840		
20/04/2007	21605		38.30	326	765	724	16	<0.37
09/05/2007	25422		54.25	365	856	879	20	<0.37
08/06/2007	32268		56.43	349	809	802	24	<0.37
03/08/2007	47352			356	791	848	68	
17/09/2007	59369		52.27		810	867	32	<0.37

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

Nitrite pH Phosphorus Suspended Solids Temperature TON Total Nitrogen Total Phosphorus
 mg/l as N pH mg/l as P mg/l °C mg/l as N mg/l as N mg P/l

0.168	8.5	11.35	420.0	11.8	0.63		11.13	
0.331	8.8	5.72	310.0	11.6	1.09	62.67	12.13	
0.161	8.4	8.16	340	11.2	0.66	100.97	14.32	
0.199	8.5	7.93		14.4	0.49	73.70	13.41	
0.187	8.6	8.31	374		<0.37	70.72	6.69	
0.111	8.2	8.32	412	17.5	<0.37	67.71	14.66	
	8.6		460	17.7		75.13	8.47	
0.070	8.4	8.34	265	18.0	<0.37	67.63	10.50	

0.122	7.6	3.13	111.0	11.1	0.79		4.41	
0.093	7.7	1.24	59	10.0	1.16	15.05	3.17	
0.107	7.6	1.09	142	10.5	0.95	39.24	4.64	
	7.7	5.96	318	13.6	0.41	60.18	9.99	
0.148	7.6	3.53	182		<0.37	45.99	6.40	
0.053	7.3	6.58	139	15.6	<0.37	53.16	7.14	
	7.6		140	15.4		29.48	3.46	
0.036	7.4	6.61	100	15.5	<0.37	32.13	4.54	

0.241	8.6	3.61	232.0	10.8	0.37		6.20	
0.149	7.7	2.00	232	11.0	0.62	35.95	5.52	
0.299	7.6	2.75	264	10.8	<0.37	54.84	6.52	
0.447	7.7	5.07		14.5	<0.37	90.81	7.53	
0.065	7.5	4.58			<0.37	67.88	9.29	
0.134	7.8	4.32	268	19.1	<0.37	224.01	8.27	
	7.6		210	17.0		31.54	3.84	
0.109	7.7	2.85	362	15.9	<0.37	184.16	7.21	

0.027	7.1	0.27	72.0	10.4			2.23	
24.29	7.6	22.32	2300	9.5	2.87	83.31	15.20	
0.186	7.2	1.08	222	10.2	5.06	33.97	2.88	
0.366	7.3	3.50		12.8	3.05	35.94	3.99	
0.436	7.4	2.65	52		3.34	23.55	3.39	
0.177	7.4	5.44	155	16.9	3.02	56.12	7.70	
	7.5		58	15.2		30.31	1.81	
0.037	7.4	2.77	124	15.2	<0.37	31.70	3.48	

0.448	7.8	6.83	702.0	11.9	1.59		13.50	
-------	-----	------	-------	------	------	--	-------	--

For inspection purposes only. No copyright or trademark required for any other use.

	8.6	4.83	492	11.3	1.34	52.32	13.51	
0.234	8.7		544	13.9	1.10	41.97	9.34	
0.407	7.6	3.36		15.6	0.70	40.39	5.74	
0.144	7.6	6.81	447		<0.37	70.72	14.82	
0.092	7.6	8.13	442	19.4	<0.37	52.75	13.51	
	7.6		286	17.6		29.44	6.91	
0.079	7.5	7.77	463	18.2	<0.37	57.59	9.61	

	8.6	4.52	985.0	9.8	2.1		0.98	
0.138	7.6	1.24	116	10.4	3.82	27.90	4.28	
0.115	7.7		121	10.4	1.80	44.82	3.19	
0.125	7.4	3.13		13.7	1.17	55.29	5.82	
0.107	7.5	2.68	194		1.00	22.4	4.98	
0.356	7.5	5.00	380	19.5	1.59	28.96	28.89	
	7.6		198	17.8		41.74	5.70	
0.057	7.6	4.32	233	16.5	<0.37	53.15	6.24	

0.086	7.9	8.45	461.0	9.8	0.55		16.04	
0.192	8.6	10.12	337	10.3	1.01	69.79	11.42	
0.459	8.6	7.55	434	10.7	0.64	101.79	13.65	
0.181	8.4	3.90		15.5	<0.37	72.70	10.96	
0.222	8.4	6.48	524		<0.37	94.00	15.03	
0.084	8.0	6.86	362	17.6	1.09	66.08	10.12	
	8.6		624	18.0		96.70	10.49	
0.104	8.2	7.55	420		<0.37	77.51	9.07	

<0.005	7.8	0.05	<10	7.1	0.62		0.36	
0.188	7.7	1.13	16	6.1	1.16	22.10	0.12	
0.048	7.5	0.84	180	9.4	0.87	9.25	5.31	
0.077	7.3	2.18		14.5	0.61	33.47	9.36	
0.034	7.4	0.33	124		0.62	6.14	1.64	
0.044	7.3	0.27	296	16.0	0.63	7.30	0.89	
	7.6		84	16.7		12.89	1.52	
0.031	7.4	2.30	75		<0.37	42.47	2.60	

0.118	8.2	7.77	188.0	9.5	0.78		6.52	
0.156	8.1	2.55	207	9.7	1.49	47.81	6.02	
0.112	8.2	4.53	203	10.5	0.74	73.07	8.68	
0.198	8.0	4.64		13.9	<0.37	57.61	8.22	
0.106	7.8	5.41	594		<0.37	77.80	17.69	
0.170	7.8	5.53	276	17.2	0.45	56.25	6.29	
	8.0		200	17.4		46.43	4.72	
0.070	7.7	6.76	276		<0.37	54.65	10.10	

0.074	8.4	3.47	378.0	9.4			6.32	
0.123	8.1	1.48	178	9.3	1.38	32.91	4.69	

For inspection purposes only. All rights reserved. No part of this document may be reproduced or transmitted in any form or by any means electronic or mechanical, including photocopying, recording, or by any information storage and retrieval system, without permission in writing from the copyright owner. Required for any other use.

0.103	8.2	2.13	192	9.9	0.83	42.78	6.66	
0.097	8.3			14.0	0.60	41.94	7.25	
0.084	8.2	2.54	133		0.42	34.17	6.70	
0.084	7.8	2.78	152	18.4	0.49	32.18	7.21	
	8.4		96	17.3		31.08	3.65	
0.055	8.1	9.60	183	16.4	<0.37	46.86	6.34	

0.07	8.3	3.18	448.0	9.6			8.47	
0.138	8.1	3.41	217	10.4	0.93	41.24	7.76	
0.259	8.3	3.70	354	10.8	0.70	71.49	9.70	
0.109	8.1	8.37		14.4	0.38	54.18	9.39	
0.103	8.1	4.20	192		<0.37	58.78	8.31	
0.080	7.6	6.02	368	16.7	<0.37	49.89	9.08	
	8.1		88	17.3		54.92	5.43	
0.063	8.1	9.04	302	16.2	<0.37	73.89	10.30	

0.083	7.9	5.86	337.0	10.6			8.06	
0.167	7.9	5.99	146	10.7	0.82	62.34	8.36	
	7.9	4.03	388	11.2	<0.37	97.64	9.66	
0.202	7.8	3.96	436	13.9	<0.37	59.70	8.56	
0.076	7.8	4.84	299		<0.37	74.32	13.96	
0.073	7.5	6.61	388	17.8	<0.37	60.98	9.13	
	7.7		354	17.2		60.58	3.41	
0.062	7.5	5.54	417	16.6	<0.37	77.21	10.40	

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

Theme 6 - 7: Number of permanent private households by type of sewerage facilities, 2006

Sewerage facil Geographic Area	Public scheme	Individual sept	Other individual	Other	No sewerage	Not stated	Total
Leinster	611266	132924	13864	3192	1278	28753	791277
South Dublin	75230	1678	158	116	32	3144	80358
001 Ballinascorney	126	107	5	0	4	19	261
002 Ballyboden	1579	8	1	1	0	30	1619
003 Bohernabreena	962	280	27	4	3	55	1331
004 Clondalkin-Ballymount	557	8	0	0	0	19	584
005 Clondalkin-Cappaghmore	500	6	0	0	0	26	532
006 Clondalkin-Dunawley	3170	39	0	8	1	177	3395
007 Clondalkin-Monastery	3283	15	3	7	0	116	3424
008 Clondalkin-Moorfield	1627	14	2	5	1	129	1778
009 Clondalkin-Rowlagh	1174	10	3	2	1	43	1233
010 Clondalkin Village	2795	34	1	4	2	95	2931
011 Edmondstown	1670	75	4	1	0	59	1809
012 Firhouse-Ballycullen	1916	10	4	1	0	64	1992
013 Firhouse-Knocklyon	1209	3	0	0	0	26	1238
014 Firhouse Village	3373	17	2	2	0	172	3566
015 Lucan-Esker	7990	78	5	18	4	460	8555
016 Lucan Heights	1758	9	2	2	1	54	1826
017 Lucan-St. Helen's	2025	43	4	2	1	54	2129
018 Newcastle	461	291	40	2	2	13	809
019 Palmerston Village	1404	5	2	0	0	12	1423
020 Palmerston West	1920	30	1	6	2	108	2067
021 Rathcoole	1000	192	15	0	2	36	1245
022 Rathfarnham-Ballyroan	911	2	1	0	0	24	938
023 Rathfarnham-Butterfield	1207	4	1	2	0	21	1235
024 Rathfarnham-Hermitage	1480	5	1	3	0	45	1534
025 Rathfarnham-St. Enda's	1334	3	0	0	0	39	1376
026 Rathfarnham Village	1178	5	0	2	0	31	1216
027 Saggart	719	199	12	2	0	37	969
028 Tallaght-Avonbeg	515	3	1	0	0	26	545
029 Tallaght-Belgard	520	3	0	1	0	10	534
030 Tallaght-Fettercairn	1714	19	4	3	0	113	1853
031 Tallaght-Glenview	408	1	1	0	0	28	438

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

032 Tallaght-Jobstown	3863	38	4	7	3	206	4121
033 Tallaght-Killinardan	1095	6	0	3	1	89	1194
034 Tallaght-Kilnamanagh	1458	7	0	1	0	37	1503
035 Tallaght-Kiltipper	1963	33	2	3	0	142	2143
036 Tallaght-Kingswood	1183	8	0	1	0	39	1231
037 Tallaght-Millbrook	1200	3	0	0	0	52	1255
038 Tallaght-Oldbawn	1322	2	0	0	0	39	1363
039 Tallaght-Springfield	2076	31	8	16	3	149	2283
040 Tallaght-Tymon	1639	6	1	3	0	67	1716
041 Templeogue-Cypress	946	3	0	0	1	18	968
042 Templeogue-Kimmage Manor	1463	2	0	1	0	37	1503
043 Templeogue-Limekiln	1232	4	2	0	0	31	1269
044 Templeogue-Orwell	724	0	0	0	0	7	731
045 Templeogue-Osprey	791	6	0	0	0	20	817
046 Templeogue Village	778	5	2	2	0	8	795
047 Terenure-Cherryfield	838	1	0	1	0	33	873
048 Terenure-Greentrees	1093	4	0	0	0	21	1118
049 Terenure-St. James	1081	1	0	0	0	8	1090

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

SECTION F: EXISTING ENVIRONMENT & IMPACT OF THE DISCHARGE(S)

Advice on completing this section is provided in the accompanying Guidance Note.

Detailed information is required to enable the Agency to assess the existing receiving environment. This section requires the provision of information on the ambient environmental conditions within the receiving water(s) upstream and downstream of any discharge(s).

Where development is proposed to be carried out, being development which is of a class for the time being specified under Article 24 (First Schedule) of the Environmental Impact Assessment Regulations, the information on the state of the existing environment should be addressed in the EIS. **In such cases, it will suffice for the purposes of this section to provide adequate cross-references to the relevant sections in the EIS.**

F.1. Assessment of Impact on Receiving Surface or Ground Water

- Give summary details and an assessment of the impacts of any existing or proposed emissions on the environment, including environmental media other than those into which the emissions are to be made.
- Tables F.1(i)(a) & (b) should be completed for the primary discharge point. Surface water monitoring locations upstream and downstream of the discharge point shall be screened for those substances listed in Tables F.1(i)(a) & (b). Monitoring of surface water shall be carried out at not less than two points, one upstream from the discharge location and one downstream.
- For discharges from secondary discharge points Tables F.1(ii)(a) & (b) should be completed. Furthermore, provide summary details and an assessment of the impacts of any existing or proposed emissions on the surface water or ground (aquifers, soils, sub-soils and rock environment), including any impact on environmental media other than those into which the emissions are to be made.
- Provide details of the extent and type of ground emissions at the works. For larger discharges to groundwaters, e.g., from Integrated Constructed Wetlands, large scale percolation areas, etc., a comprehensive report must be completed which should include, inter alia, topography, meteorological data, water quality, geology, hydrology, and hydrogeology. The latter must in particular present the aquifer classification and vulnerability. The Geological Survey of Ireland Groundwater Protection Scheme Dept of the Environment and Local Government, Geological Survey of Ireland, EPA (1999) methodology should be used for any such classification. This report should also identify all surface water bodies and water wells that may be at risk as a result of the ground discharge.

- Describe the existing environment in terms of water quality with particular reference to environmental quality standards or other legislative standards. Submit a copy of the most recent water quality management plan or catchment management plan in place for the receiving water body. Give details of any designation under any Council Directive or Regulations that apply in relation to the receiving water.
- Provide a statement as to whether or not emissions of main polluting substances (as defined in the *Dangerous Substances Regulations S.I. No. 12 of 2007*) to water are likely to impair the environment.
- In circumstances where water abstraction points exist downstream of any discharge describe measures to be undertaken to ensure that discharges from the waste water works will not have a significant effect on faecal coliform, salmonella and protozoan pathogen numbers, e.g., Cryptosporidium and Giardia, in the receiving water environment.
- Indicate whether or not emissions from the agglomeration or any plant, methods, processes, operating procedures or other factors which affect such emissions are likely to have a significant effect on –
 - (a) a site (until the adoption, in respect of the site, of a decision by the European Commission under Article 21 of Council Directive 92/43/EEC for the purposes of the third paragraph of Article 4(2) of that Directive) —
 - (i) notified for the purposes of Regulation 4 of the Natural Habitats Regulations, subject to any amendments made to it by virtue of Regulation 5 of those Regulations,
 - (ii) details of which have been transmitted to the Commission in accordance with Regulation 5(4) of the Natural Habitats Regulations, or
 - (iii) added by virtue of Regulation 6 of the Natural Habitats Regulations to the list transmitted to the Commission in accordance with Regulation 5(4) of those Regulations,
 - (b) a site adopted by the European Commission as a site of Community importance for the purposes of Article 4(2) of Council Directive 92/43/EEC¹ in accordance with the procedures laid down in Article 21 of that Directive,
 - (c) a special area of conservation within the meaning of the Natural Habitats Regulations, or
 - (d) an area classified pursuant to Article 4(1) or 4(2) of Council Directive 79/409/EEC²;

¹Council Directive 92/43/EEC of 21 May 1992 on the conservation of natural habitats and of wild fauna and flora (OJ No. L 206, 22.07.1992)

²Council Directive 79/409/EEC of 2 April 1979 on the conservation of wild birds (OJ No. L 103, 25.4.1979)

- o Describe, where appropriate, measures for minimising pollution over long distances or in the territory of other states.
- o This section should also contain full details of any modelling of discharges from the agglomeration. Full details of the assessment and any other relevant information on the receiving environment should be submitted as **Attachment F.1.**

Attachment included	Yes	No

F.2 Tabular Data on Drinking Water Abstraction Point(s)

Applicants should submit the following information for each downstream or downgradient drinking water abstraction point. The zone of contribution for the abstraction point should be delineated and any potential risks from the waste water discharge to the water quality at that abstraction point identified.

ABS_CD	AGG_SERVED	ABS_VOL	PT_CD	DIS_DS	EASTING	NORTHING	VERIFIED
Abstraction Code	Agglomeration served	Abstraction Volume in m ³ /day	Point Code Provide label ID's	Distance Downstream in meters from Emission Point to Abstraction Point	6E-digit GPS Irish National Grid Reference	6N-digit GPS Irish National Grid Reference	Y = GPS used N = GPS not used

Note: Attach any risk assessment that may have been carried out in relation to the abstraction point(s) listed.

An individual record (i.e. row) is required for each abstraction point. Acceptable file formats include Excel, Access or other upon agreement with the Agency. A standard Excel template can be downloaded from the EPA website at www.epa.ie. This data should be submitted to the Agency on a separate CD-Rom containing sections B.1, B.2, B.3, B.4, B.5, C.1, D.2 and E.3.

Attachment F.2 should contain any supporting information.

Section F – South Dublin County Council

Provide an assessment of the impact of storm water overflows in the agglomeration with reference to any available receiving water monitoring data and any other relevant data available. Identify any storm water overflows that may be causing surface water quality problems.

South Dublin has 15No. Storm Water Overflows (F/S to S/W connections), 13No. Pumping Station Emergency Overflows (Additional 1No. Planned), and 1No Siphon Overflow.

The majority of pump station overflows in South Dublin operate only in emergency situations. Emergency overflows are rare and normally due to catastrophic failure of the pump station. South Dublin County Council has put in place necessary supervision and telemetry alarm systems on all pump stations to ensure early detection of problems, so that such problems can be rectified prior to overflow situations. Supervision is carried out daily and the telemetry alarm signal is sent by phone / sms to the area drainage inspector or a deputy inspector in the event a pump failure of a high level sump alarm being activated. As stated in Section E, a small number of pumping stations do overflow on occasion. These pumping station, operate satisfactorily under normal circumstances, however, in prolonged periods of heavy rain they are prone to occasional overflows. Due to the fact that these overflows occur during periods of heavy prolonged rainfall, the affected watercourses are also in peak flow, thus their assimilative capacity is increased.

In relation to the 15No. Storm Water Overflows, South Dublin County Council is in the process of examining the possibility of decommissioning SDCCSWO03(Airton Road), SDCCSWO05(Brookfield Cottage – 1 of 2), SDCCSWO08(Castle View Rd / Watery Lane), SDCCSWO11(Springfield Avenue) and SDCCSWO12 (Loreto Tce). **SDCCSWO04(Avonmore Rd) was permanently decommissioned during April 2008).** In relation to decommissioning these overflows, South Dublin County Council, will in the first place, put temporary seals on them for a period of 12-18 months to assess the feasibility of decommissioning them permanently. In addition, the area drainage inspectors will monitor all overflows on an ongoing basis to assess the frequency of overflows and impacts of overflows on watercourses.

In relation to assessing the impact of storm water overflows in the agglomeration with reference to any available receiving water monitoring data and any other relevant data available, the data from phosphorous monitoring, dangerous substances monitoring and water framework directive monitoring does not provide evidence that storm water overflows in the agglomeration are impacting adversely on water quality.

SECTION G: PROGRAMMES OF IMPROVEMENTS

Advice on completing this section is provided in the accompanying Guidance Note.

G.1 Compliance with Council Directives

Provide details on a programme of improvements to ensure that emissions from the agglomeration or any premises, plant, methods, processes, operating procedures or other factors which affect such emissions will comply with, or will not result in the contravention of; the Dangerous Substances Directive 2006/11/EC, the Water Framework Directive 2000/60/EC, the Birds Directive 79/409/EEC, the Groundwater Directives 80/68/EEC & 2006/118/EC, the Drinking Water Directives 80/778/EEC, the Urban Waste Water Treatment Directive 91/271/EEC, the Habitats Directive 92/43/EEC, the Environmental Liabilities Directive 2004/35/EC and the Bathing Water Directive 76/160/EEC.

Attachment G.1 should contain the most recent programme of improvements, including a copy of any approved funding for the project and a timeframe for the completion of the necessary works to take place.

Attachment included	Yes	No

G.2 Compliance with Water Quality Standards for Phosphorus Regulations (S.I. No. 258 of 1998).

Provide details on a programme of improvements, including any water quality management plans or catchment management plans in place, to ensure that improvements of water quality required under the Water Quality Standards for Phosphorous Regulations (S.I. No. 258 of 1998) are being achieved. Provide details of any specific measures adopted for waste water works specified in Phosphorus Measures Implementation reports and the progress to date of those measures. Provide details highlighting any waste water works that have been identified as the principal sources of pollution under the P regulations.

Attachment G.2 should contain the most recent programme of improvements and any associated documentation requested under Section G.3 of the application.

Attachment included	Yes	No

G.3 Impact Mitigation

Provide details on a programme of improvements to ensure that discharges from the agglomeration will not result in significant environmental pollution.

Attachment G.3 should contain the most recent programme of improvements, including a copy of any approved funding for the project and a timeframe for the completion of the necessary works to take place.

Attachment included	Yes	No

G.4 Storm Water Overflow

Provide details on a programme of improvements to ensure that discharges other than the primary and secondary discharges comply with the definition of 'storm water overflow' as per Regulation 3 of the Waste Water Discharge (Authorisation) Regulations, 2007.

Attachment G.4 should contain the most recent programme of improvements, including a copy of any approved funding for the project and a timeframe for the completion of the necessary works to take place.

Attachment included	Yes	No

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

Section G – South Dublin County Council

Provide a full response to Section G of the Application form. Separate answers for each of Section G.1, G.2, G.3 and G.4 are required. Your response shall give details of the improvements proposed for the South Dublin portion of the Ringsend agglomeration only. Your response shall specifically give details of the following:

- The improvement planned
- The specific discharges it will affect
- The completion date
- The source of funding, and
- A description and quantification of the expected improvements with respect to relevant standards and legislation.

SECTION G: PROGRAMMES OF IMPROVEMENTS

Advice on completing this section is provided in the accompanying Guidance Note.

G.1 Compliance with Council Directives

Provide details on a programme of improvements to ensure that emissions from the agglomeration or any premises, plant, methods, processes, operating procedures or other factors which affect such emissions will comply with, or will not result in the contravention of; the Dangerous Substances Directive 2006/11/EC, the Water Framework Directive 2000/60/EC, the Birds Directive 79/409/EEC, the Groundwater Directives 80/68/EEC & 2006/118/EC, the Drinking Water Directives 80/778/EEC, the Urban Waste Water Treatment Directive 91/271/EEC, the Habitats Directive 92/43/EEC, the Environmental Liabilities Directive 2004/35/EC and the Bathing Water Directive 76/160/EEC.

Attachment G.1 should contain the most recent programme of improvements, including a copy of any approved funding for the project and a timeframe for the completion of the necessary works to take place.

Attachment included	Yes	No
Preamble to Capital Works Programme 2008-2010		
Capital Works Programme 2008-2010		

Response.

See Attachment on hard file and electronic file for **Preamble to Capital Works Programme 2008-2010 & Capital Works Programme 2008-2010**. Please refer to Programme 3 for all Drainage Capital projects.

Separate implementation reports are due for completion in June 2008 in accordance with the Dangerous Substances Regulations and Phosphorous Regulations. These reports will be submitted to the EPA by the statutory due date of 22nd June 2008.

South Dublin County Council has not identified specific measures for waste water works in previous measures / implementation reports however, measures have been implemented in the form of routine inspections of waste water works and in particular daily inspection of pumping stations. Telemetry alarm systems have been installed in all pumping stations which alert staff to breakdowns and high sump levels. Pumping Station performance can also be viewed remotely by inspectors via laptops. The telemetry systems have backup systems in the event of power failures.

A Project Management System(PMS) is being rolled out which will improve reporting of pumping station inspections and maintenance. This PMS system is an on-line system which will facilitate better reporting to the EHLG and EPA.

G.2 Compliance with Water Quality Standards for Phosphorus Regulations (S.I. No. 258 of 1998).

Provide details on a programme of improvements, including any water quality management plans or catchment management plans in place, to ensure that improvements of water quality required under the Water Quality Standards for Phosphorous Regulations (S.I. No. 258 of 1998) are being achieved. Provide details of any specific measures adopted for waste water works specified in Phosphorus Measures Implementation reports and the progress to date of those measures. Provide details highlighting any waste water works that have been identified as the principal sources of pollution under the P regulations.

Attachment G.2 should contain the most recent programme of improvements and any associated documentation requested under Section G.3 of the application.

Attachment included	Yes	No
Preamble to Capital Works Programme 2008-2010		
Capital Works Programme 2008-2010		
Phosphorous Report 2006		

Response

The implementation report under the Water Quality Standards for Phosphorous Regulations (S.I. No. 258 of 1998) is due for completion in June 2008. This reports will be submitted to the EPA by the statutory due date of 22nd June 2008.

Wastewater works in South Dublin County Council have not heretofore been identified as principal sources of pollution under the P Regulations. South Dublin County Council has no primary discharges. In addition, identified overflows do not discharge continuously and act only as emergency or storm overflows. The occasional discharges that do happen, occur when the assimilative capacity in receiving watercourses is at maximum. These overflows do not occur under normal circumstances.

South Dublin County Council has not identified specific measures for waste water works in the previous Phosphorus Measures Implementation reports however, measures have been implemented in the form of routine inspections of waste water works and in particular daily inspection of pumping stations. Telemetry alarm systems have been installed in all pumping stations which alert staff to breakdowns and high sump levels. Pumping Station performance can also be viewed remotely by inspectors via laptops. The telemetry systems have backup systems in the event of power failures.

G.3 Impact Mitigation

Provide details on a programme of improvements to ensure that discharges from the agglomeration will not result in significant environmental pollution.

Attachment G.3 should contain the most recent programme of improvements, including a copy of any approved funding for the project and a timeframe for the completion of the necessary works to take place.

Attachment included	Yes	No

Response

Ongoing routine maintenance by both the Drainage Maintenance Section and Mechanical Section ensures that discharges from the agglomeration do not result in significant environmental pollution. South Dublin County Council operates a 24/7 on-call drainage service whereby chokes and blockages on the system, that cause surcharging of the mains or overflows are dealt with as efficiently as possible. Alarm systems on the pumping stations allow for early detection of problems thus allowing time for both Mechanical and Drainage Crews to act. The move from manual recording of daily inspections and maintenance of pumping stations from diary application to the on-line PMS application will improve the reporting of these facilities and their performance to the EHLG and EPA.

The Capital Works Programme 2008-2010 give details of ongoing works to pump stations, of a capital nature. This includes pumps replacements / improvements and other significant plant additions and or replacements.

G.4 Storm Water Overflow

Provide details on a programme of improvements to ensure that discharges other than the primary and secondary discharges comply with the definition of 'storm water overflow' as per Regulation 3 of the Waste Water Discharge (Authorisation) Regulations, 2007.

Attachment G.4 should contain the most recent programme of improvements, including a copy of any approved funding for the project and a timeframe for the completion of the necessary works to take place.

Attachment included	Yes	No

Storm Water Overflow – means a structure or device on a sewerage system designed and constructed for the purpose of relieving the system of excess flows that arise as a result of rainwater or melting snow in the sewered catchment, the excess flows being discharged to receiving waters.

All wastewater treatment works discharges in South Dublin County Council comply with the definition of “storm water overflow” except those discharges caused as a result of pump station failures(emergency overflows). As stated in B.5 above, a number of storm water overflows are being examined with a view to decommissioning a number of them. Since the application process commenced one overflow has been decommissioned (SDCCSWO04). Another few may potentially be decommissioned, however, they must be monitored prior to a final decision. These overflows are in place to prevent flooding of dwellings and subsequent claims / public health issues, therefore care must be exercised in allowing for any decommissions. The potential to remove some of these overflows presents itself due to various upgrades to the system that have occurred in recent years. The design of all storm water overflow will be examined with a view to improving them where necessary. A programme is not available for this yet, however with less than 20 such overflows it is envisaged this could be done in late 2008 / early 2009.

Three Year Capital Programme 2008 – 2010

Programme Group 3 – Water Supply & Drainage

The three-year capital programme provides for an expenditure of **€113.2m** which consists of **€49.4m** for water schemes and **€63.8m** for wastewater and surface water schemes. The schemes are funded from a combination of grants from the DEHLG, development levies, water pricing and in some cases funding from other agencies. In the case of schemes which rely on funding from the DEHLG approvals are required at various stages of the projects and this may affect the programme. The schemes include the following:-

Boherboy Water Supply Scheme

This scheme involves the construction of two new reservoirs at Saggart and at Kiltalown with capacities of 24 and 17.5 megalitres respectively. A new pumping station at Saggart will pump water to a new high level reservoir at Kiltalown. The scheme will also upgrade and expand the existing pipe network in the areas of Newcastle, Rathcoole, Saggart, Brownsbarn, Citywest, the southern parts of Tallaght and areas of Ballycragh, Oldbawn, Knocklyon, Ballyboden and Ballycullen. The scheme will enhance the water supply to existing users and facilitate future development. **Timescale: 2008 – 2010. Estimated Cost for the same period - €28.0million.**

Dodder Valley Foul Sewer Improvement Scheme

This scheme involves investigation and remediation of the existing sewer network with removal of storm water infiltration. This work will free up capacity in the existing sewer network to provide for new development. The scheme also involves the provision of new branch sewers and overflow tank to relieve existing network problems. The existing and future areas connected to the scheme are as far west as Jobstown and parts of Fortunestown and stretches to Ballycullen and Rathfarnham. **Timescale: 2008 – 2010. Estimated Cost for the same period- €9 million**

Greater Dublin Drainage (Contract 9B) Improvement Scheme

This scheme involves investigation, remediation and upgrading of the existing sewer network with removal of storm water infiltration. New storm tank at Ballymount with overflow to surface water segment of Grand Canal tunnel. The existing and future areas connected to the Scheme are Lucan including Adamstown, Liffey Valley, Quarryvale, Clondalkin, Ballymount, Grange Castle, Saggart, Newcastle, Rathcoole and Greenogue. **Timescale: 2008– 2010. Estimated Cost for the same period - €16 million**

Saggart/Rathcoole & Newcastle Drainage Collection Improvement Scheme

This scheme involves the investigation remediation and upgrading of the foul and surface water infrastructure in these three towns in order to provide for existing and future development. A new gravity main will be provide at Tay Lane to

connect Rathcoole to the new trunk sewer at the decommissioned treatment works at Saggart. A new pumping station will be provided at Peamount.
Timescale: 2008 – 2010.

Estimated Cost for the same period - €1million

Tobermaclugg Rising Mains and Foul Sewer

This scheme consists of the provision of twin rising mains and a gravity sewer to connect to the 9B foul sewer at Balgaddy. The scheme is developer led with 60% of the cost being funded by the developer. The cost below is 40% of the total cost which is being funded by the DEHLG under the SLI scheme. The scheme will convey sewage from most of the Adamstown SDZ lands.

Timescale: Work has commenced on the rising mains and gravity sewer as part of roads contracts. Estimated Cost for the period 2008-2010

€4 million.

Tobermaclugg Wastewater Pumping Station

This scheme is developer led by Chartridge Ltd and will serve most of the Adamstown SDZ lands. The scheme is developer led with 60% of the cost being funded by the developer. The cost below is 40% of the total cost which is being funded by the DEHLG under the SLI scheme.

Timescale: 2008 – 2010 Estimated cost for the period: €6.6million

Tobermaclugg Stream Improvement Scheme

This scheme involves upgrading the river channel from the Adamstown SDZ lands to the River Liffey to alleviate existing flooding problems and to provide an adequate outfall for surface water from the Adamstown lands. The scheme is developer led with 60% of the cost being funded by the developer. The cost below is 40% of the total cost which is being funded by the DEHLG under the SLI scheme.

Timescale: 2008 – 2010. Estimated cost for period - €3.45million

Robinhood Stream Improvement Scheme

The scheme involves improvements to the stream channel from Robinhood Industrial Estate to the Camac River. This scheme is unlikely to receive DEHLG funding and will have to be funded from other sources.

Timescale: 2008 – 2010. Estimated cost for period - €776,300

Whitehall Road Flood Alleviation Scheme

The scheme involves removing some of the surface water from the existing combined sewer and reducing flows in the Poddle River by expanding the attenuation lakes at Tymon Park. This scheme is unlikely to attract DEHLG funding and will have to be funded from other sources.

Timescale: 2008 – 2010. Estimated cost €776,300

Lucan/Palmerston Water Supply Scheme

Construction commenced in October 2002 and the scheme was substantially completed in December 2004. All outstanding works completed. The final accounts will be submitted to the DEHLG in the near future for their approval.
Projected Expenditure 2008-2010: €300,000.

Non Domestic Metering Project

The statutory Water Pricing Policy framework requires the universal metering of non domestic customers and the full recovering of the cost of providing water and waste water services to non domestic customers. The project commenced in 2006 and expenditure for 2006 to end of 2007 was €5.1million. **Timescale: Contract in progress, completion June 2008 Estimated Cost for Project €7.1million- Expenditure in 2008 €2.83m**

Road Works Schemes

These schemes involve the construction of strategic watermains along new roadways as proposed in the Council's Roads Programme for 2008-2010. These mains will offer security of supply, create strategic linkages across the County and will improve flows within the distribution network.

Timescale 2008-2010 Estimated Cost for same period – €9.27million

Dublin Region Mains Rehabilitation Project

The Mains Rehabilitation phase of the Greater Dublin Region Strategic Water Study Report commenced early 2006. The project involves the replacement of pipes with a high burst frequency, based on an agreed assessment methodology. Under the increased funding arrangements for Water Conservation Programmes (circular L6/05), 90% funding is available for this work. The Council has received approval from the Regional Steering Group and intends to carry out rehabilitation, to a number of areas prone to general and seasonal bursts, on a phased basis over the next two years.

Timescale: 2008-2009

Estimated cost for the same period - €4.57million

Water Conservation Programme

The National Water Conservation funding programme provides 90% grants to local authorities to implement and maintain effective water conservation measures. The Council has so far carried out works on additional district metering and pressure control management amounting to €175,000 in accordance with this programme.

Timescale: End 2008

Estimated cost for same period - €0.482million

Water Maintenance

The Capital Programme includes a number of small schemes throughout the County to upgrade the Council's watermains. Works carried out to upgrade and improve the watermain network during 2007 amounted to approximately €1m.

Timescale: 2008 – 2010

Estimated cost: €3.97million

Drainage Maintenance and Mechanical Works

The Capital Programme provides for certain works to upgrade the Council's infrastructure costing approximately **€7.38million over the years 2008-2010.**

Also provided for is the refurbishment of a number of pumping stations and replacement of pumps at an estimated cost of **€4.94 million over the years 2008-2010.**

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

Draft South Dublin County Council Three Year Capital Programme 2008-2010

Indicative figures only
Overall totals

PROGRAMME GROUP	Expenditure				Loans	Levies	Funded by				
	2008	2009	2010	Total 2008 - 2010			Grants	Revenue Provision	Disposals Revenue	Total	
SCHEMES WHERE CONTRACTS ARE SIGNED	360,631,336	266,908,933	229,900,000	857,440,269	-	302,500,000	56,064,601	414,754,436	6,811,232	79,510,000	857,500,269
Projects committed where Council is obliged to complete, but not in Contract e.g. Adamstown Community Facilities and Nangor Road	79,825,000	69,719,650	23,295,000	172,839,650	-	61,295,610	8,733,185	11,920,670	73,915,000		172,839,650
Projects planned but subject to availability of funding	41,186,893	77,052,109	74,110,897	192,349,899	-	40,557,921	38,557,854	10,327,851	102,906,273		192,349,899
Overall Totals	481,643,229	413,680,692	327,305,897	1,222,629,818	-	302,500,000	157,918,132	462,045,475	29,059,753	256,331,273	1,222,689,818

2008 position

PROGRAMME GROUP	Expenditure 2008	Funded by Loans	Levies	Grants	Revenue Provision	Disposals Revenue	Total
SCHEMES WHERE CONTRACTS ARE SIGNED	360,631,336	88,500,000	52,663,055	180,826,236	2,552,045	38,290,000	362,831,336
Projects committed where Council is obliged to complete, but not in Contract e.g. Adamstown Community Facilities and Nangor Road	79,825,000		26,867,545	8,733,185	5,723,670	38,500,600	79,825,000
Projects planned but subject to availability of funding	41,186,893		4,185,614	6,520,000	2,682,379	27,798,900	41,186,893
Overall Totals	481,643,229	-	88,500,000	83,716,214	196,079,421	104,589,500	483,843,229

2009 position

PROGRAMME GROUP	Expenditure 2009	Funded by Loans	Levies	Grants	Revenue Provision	Disposals Revenue	Total
SCHEMES WHERE CONTRACTS ARE SIGNED	266,908,933	98,100,000	2,461,546	139,028,200	4,249,187	23,070,000	266,908,933
Projects committed where Council is obliged to complete, but not in Contract e.g. Adamstown Community Facilities and Nangor Road	69,719,650		26,372,065	14,485,185	3,670,000	25,192,400	69,719,650
Projects planned but subject to availability of funding	77,052,109		17,580,400	18,605,412	3,435,182	37,431,115	77,052,109
Overall Totals	413,680,692	-	98,100,000	46,414,011	172,118,797	11,354,369	85,693,515

2010 Position

PROGRAMME GROUP	Expenditure 2010	Funded by Loans	Levies	Grants	Revenue Provision	Disposals Revenue	Total
SCHEMES WHERE CONTRACTS ARE SIGNED	229,900,000	115,900,000	940,000	94,900,000	10,000	18,150,000	229,900,000
Projects committed where Council is obliged to complete, but not in Contract e.g. Adamstown Community Facilities and Nangor Road	23,295,000		8,056,000	2,490,000	2,527,000	10,222,000	23,295,000
Projects planned but subject to availability of funding	74,110,897		18,791,907	13,432,442	4,210,290	37,676,258	74,110,897
Overall Totals	327,305,897	-	115,900,000	27,787,907	110,822,442	6,747,290	327,305,897

Summary of Schemes where contracts are signed 2008-2010											
PROGRAMME GROUP	2008	2009	2010	Total 2008 - 2010		Total Loans	Total Levies	Total Grants	Total Revenue	Total Disposals	Total
Programme 1	188,416,399	213,720,000	189,550,000	591,686,399	-	294,050,000	-	236,416,399	-	61,220,000	591,686,399
Programme 2	121,806,591	32,750,000	34,700,000	189,256,591	-	-	39,375,801	145,597,612	283,178	4,000,000	189,256,591
Programme 3	18,335,783	12,838,933	4,050,000	35,224,716	-	-	9,820,582	20,836,080	6,528,054	240,000	35,284,716
Programme 4	10,550,000	5,000,000	-	15,550,000	-	-	-	6,000,000	-	9,550,000	15,550,000
Programme 5	5,250,000	2,100,000	1,100,000	8,450,000	-	8,450,000	-	-	-	-	8,450,000
Programme 6	16,272,563	500,000	500,000	17,272,563	-	-	6,868,218	5,904,345	-	4,500,000	17,272,563
						-	-	-	-	-	
Overall total	360,631,336	266,908,933	229,900,000	857,440,269		302,500,000	56,064,601	414,754,436	6,811,232	79,510,000	857,500,269

Detail per programme group where contracts are signed 2008-2010

Expenditure											
PROGRAMME GROUP	2008	2009	2010	Total 2008 - 2010		Total Loans	Total Levies	Total Grants	Total Revenue	Total Disposals	Total
SCHEMES WHERE CONTRACTS ARE SIGNED											
Programme 1											
Construction Programme	57,000,000	76,650,000	40,600,000	174,250,000		-	-	174,250,000	-	-	174,250,000
Extensions in lieu of Housing	100,000	120,000	150,000	370,000		-	-	-	-	370,000	370,000
Remedial/Refurbishment	20,900,000	21,500,000	16,500,000	58,900,000		-	-	18,400,000	-	40,500,000	58,900,000
Provision of Voluntary Housing	50,000,000	50,000,000	40,000,000	140,000,000		140,000,000	-	-	-	-	140,000,000
Homelessness Projects	1,150,000	2,000,000	1,000,000	4,150,000		-	-	4,150,000	-	-	4,150,000
Traveller Accommodation	14,616,399	13,000,000	12,000,000	39,616,399		-	-	39,616,399	-	-	39,616,399
Shared Ownership Scheme	1,250,000	10,000,000	10,000,000	21,250,000		21,250,000	-	-	-	-	21,250,000
Affordable Housing	32,000,000	36,000,000	64,800,000	132,800,000		132,800,000	-	-	-	-	132,800,000
Prov. of extensions to LA Housing	400,000	450,000	500,000	1,350,000		-	-	-	-	1,350,000	1,350,000
Additional ICR exp(as directed by DoE)	11,000,000	4,000,000	4,000,000	19,000,000		-	-	-	-	19,000,000	19,000,000
Sub total programme 1	188,416,399	213,720,000	189,550,000	591,686,399		294,050,000	-	236,416,399	-	61,220,000	591,686,399
Programme 2											
N7 to Kildare Co Boundary	1,000,000	1,000,000		2,000,000		-	-	2,000,000	-	-	2,000,000
N4 to Leixlip	30,000,000	20,000,000	5,000,000	55,000,000		-	-	55,000,000	-	-	55,000,000
M50 Third Lane	21,500,000			21,500,000		-	-	21,500,000	-	-	21,500,000
Green Route (Ballyboden to Grange Road)	7,250,000	500,000		7,750,000		-	6,350,000	1,400,000	-	-	7,750,000
Firhouse Road - Contract B	4,000,000	250,000		4,250,000		-	4,250,000	-	-	-	4,250,000
Finnstown	2,000,000			2,000,000		-	2,000,000	-	-	-	2,000,000
Outer Ring Road - Phase 2	14,000,000			14,000,000		-	4,000,000	10,000,000	-	-	14,000,000
Outer Ring Road - Phase 3	31,000,000			31,000,000		-	17,000,000	10,000,000	-	4,000,000	31,000,000
Ballinascooney Junction Upgrade	200,000			200,000		-	200,000	-	-	-	200,000
Hayden's Lane	300,000	100,000		400,000		-	400,000	-	-	-	400,000
R133 Ballycullen Link Road	500,000			500,000		-	500,000	-	-	-	500,000
DTO Related Schemes	6,900,000	10,500,000	29,700,000	47,100,000		-	2,000,000	45,100,000	-	-	47,100,000
JFK Drive culvert	600,000	400,000		1,000,000		-	1,000,000	-	-	-	1,000,000

Detail per programme group where contracts are signed 2008-2010

Expenditure

PROGRAMME GROUP	2008	2009	2010	Total 2008 - 2010	Total Loans	Total Levies	Total Grants	Total Revenue	Total Disposals	Total	
Greenhills/Ballymount recofig (Limekiln + QBC + Greenhills + Robinhood Rd)	310,229			310,229	-	-	310,229	-	-	310,229	
Nangor Rd Extn. & Baldonnell Rd. link	268,800			268,800	-	215,040	-	53,760	-	268,800	
Knocklyon Road	44,160			44,160	-	35,328	-	8,832	-	44,160	
Belgard Rd to Citywest (Belgard to Cookstown Road 400mm main)	145,516			145,516	-	-	145,516	-	-	145,516	
Belgard Rd to Citywest (Cookstown Rd. to Outer Ring Rd. Ph 3)	543,086			543,086	-	543,086	-	-	-	543,086	
Lucan/Newcastle Rd Realignment (Finnistown House to Milltown)	1,102,933			1,102,933	-	882,347	-	220,586	-	1,102,933	
QBC - Lucan to Newcastle Rd (S'quinn)	81,067			81,067	-	-	81,067	-	-	81,067	
QBC - Lucan to Newcastle Rd (S'quinn)	60,800			60,800	-	-	60,800	-	-	60,800	
Sub total programme 2	121,806,591	32,750,000	34,700,000	189,256,591	-	-	39,375,801	145,597,612	283,178	4,000,000	189,256,591
Programme 3											
N4 Lucan by Pass: Replace existing pipes	991,680			991,680	-	-	991,680	-	-	991,680	
N4 Lucan by Pass: Lay new mains	568,320			568,320	-	568,320	-	-	-	568,320	
Subdivision of DMAs, PRVs etc (C3100116)	482,450			482,450	-	482,450	-	-	-	482,450	
Enabling Network Management	1,365,000			1,365,000	-	1,092,000	-	273,000	-	1,365,000	
168 to 192 Whitehall Road	37,400			37,400	-	29,920	-	7,480	-	37,400	
Old Hill, Lucan (C3100122)	406,300			406,300	-	325,040	-	81,260	-	406,300	
Deansrath Depot - materials bay	30,000			30,000	-	30,000	-	-	-	30,000	
Kilmahuddrick Stream Regrading	40,000		30,000	70,000	-	56,000	-	14,000	-	70,000	
Cherryfield Halting Site		12,000		12,000	-	-	12,000	-	-	12,000	
Composite Samplers and Meters	100,000			100,000	-	80,000	-	20,000	-	100,000	
Robinhood Stream Improvement Works	500,000	276,300		776,300	-	621,040	-	155,260	-	776,300	
West Tallaght F/S Investigation		125,000		125,000	-	100,000	-	25,000	-	125,000	
Whitehall Road Flood Alleviation Scheme	500,000	176,000		676,000	-	540,800	-	135,200	-	676,000	
Monksfield F/S Investigation	25,000			25,000	-	20,000	-	5,000	-	25,000	
Airton Road Sewer (C3200152)	250,000			250,000	-	200,000	-	50,000	-	250,000	
Infiltration/Inflow investigative work	30,000	40,000	20,000	90,000	-	72,000	-	18,000	-	90,000	
Mogden AC telemetry & meters	209,633	209,633		419,266	-	335,412	-	83,854	-	419,266	
Boherboy Water Supply Scheme	12,000,000	12,000,000	4,000,000	28,000,000	-	2,567,600	19,832,400	5,600,000	-	28,000,000	
Lucan/Palmerstown WSS	800,000			800,000	-	-	800,000	-	-	800,000	
Sub total programme 3	18,335,783	12,838,933	4,050,000	35,224,716	-	7,120,582	21,636,080	6,528,054	-	35,284,716	
Programme 4											
Grange Castle: Takeda to Baldonnell Road (Contract 7)	3,500,000			3,500,000	-	-	1,000,000	-	2,500,000	3,500,000	
Grange Castle: Acquisition of dwelling to Clutterland	1,300,000			1,300,000	-	-	-	-	1,300,000	1,300,000	
County Stadium, Whitestown	5,000,000	5,000,000		10,000,000	-	-	5,000,000	-	5,000,000	10,000,000	
Keenbury Disposal & Development of carparking	750,000			750,000	-	-	-	-	750,000	750,000	
Sub total programme 4	10,550,000	5,000,000	-	15,550,000	-	-	6,000,000	-	9,550,000	15,550,000	

Detail per programme group where contracts are signed 2008-2010

Expenditure

PROGRAMME GROUP	2008	2009	2010	Total 2008 - 2010	Total Loans	Total Levies	Total Grants	Total Revenue	Total Disposals	Total
					-	-	-	-	-	-
Programme 5					-	-	-	-	-	-
Arthurstown Landfill	5,250,000	2,100,000	1,100,000	8,450,000	8,450,000	-	-	-	-	8,450,000
Sub total programme 5	5,250,000	2,100,000	1,100,000	8,450,000	8,450,000	-	-	-	-	8,450,000
					-	-	-	-	-	-
Programme 6					-	-	-	-	-	-
Brookfield Community Centre	300,000			300,000	-	300,000	-	-	-	300,000
Tallaght Swimming Pool	975,000			975,000	-	784,539	190,461	-	-	975,000
County Arts Centre	6,500,000			6,500,000	-	-	2,000,000	-	4,500,000	6,500,000
Clondalkin Swimming Pool	665,000			665,000	-	284,079	380,921	-	-	665,000
Fettercairn (Extension to Comm Centre	50,000			50,000	-	-	50,000	-	-	50,000
* St Muirín's Community Centre	1,082,563			1,082,563	-	649,600	432,963	-	-	1,082,563
Fortunestown B Childcare Centre		200,000		200,000	-	-	200,000	-	-	200,000
Belfry Childcare Centre	200,000			200,000	-	200,000	-	-	-	200,000
Civic Theatre Restaurant Refurbishment	200,000			200,000	-	200,000	-	-	-	200,000
Public Art Programme	600,000	300,000	500,000	1,400,000		-	1,400,000	-	-	1,400,000
Sports Capital	1,000,000			1,000,000		350,000	650,000			1,000,000
Parks Improvement Works	3,500,000			3,500,000		3,500,000	-			3,500,000
Playgrounds	900,000			900,000		600,000	300,000			900,000
Other Capital	300,000			300,000		-	300,000			300,000
Sub total programme 6	16,272,563	500,000	500,000	17,272,563	-	6,868,218	5,904,345	-	4,500,000	17,272,563
					-	-	-	-	-	-
Overall totals	360,631,336	266,908,933	229,900,000	857,440,269	-	302,500,000	56,064,601	414,754,436	6,811,232	79,510,000
					-	-	-	-	-	-

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

Summary of projects committed where Council is obliged to complete, but not in Contract e.g. Adamstown Community Facilities and Nangor Road 2008-2010

Expenditure

PROGRAMME GROUP	2008	2009	2010	Total 2008 - 2010	Total Levies	Total Grants	Total Revenue	Total Disposals	Total
					0	0	0	0	0
Programme 1					0	0	0	0	0
Programme 2	29,650,000	31,970,000	16,200,000	77,820,000	-	24,345,000	13,975,000	8,000,000	31,500,000
Programme 3	14,780,000	9,099,650	2,595,000	26,474,650	-	17,350,610	6,233,370	1,570,670	1,320,000
Programme 4	23,945,000	12,200,000	3,500,000	39,645,000	-	0	1,050,000	200,000	38,395,000
Programme 5	4,150,000	2,300,000	-	6,450,000	-	4,300,000	0	2,150,000	0
Programme 6	7,300,000	14,150,000	1,000,000	22,450,000	-	15,300,000	4,450,000	0	2,700,000
					0	0	0	0	0
Overall total	79,825,000	69,719,650	23,295,000	172,839,650	-	61,295,610	25,708,370	11,920,670	73,915,000

Expenditure

PROGRAMME GROUP	2008	2009	2010	Total 2008 - 2010	Total Levies	Total Grants	Total Revenue	Total Disposals	Total
Programme 2					0	0	-	0	0
Bohernabreena Junction Upgrade	1,000,000	100,000	-	1,100,000	1,100,000	0	-	0	1,100,000
Ballymaice Junction Upgrade	200,000	100,000	-	300,000	300,000	0	-	0	300,000
Belgard Road to Outer Ring Road (Part of Walkinstown / Saggart Rd)	8,500,000	8,500,000	2,000,000	19,000,000	3,000,000	10,000,000	-	6,000,000	19,000,000
Nangor Road Realignment	4,000,000	4,000,000	200,000	8,200,000	4,200,000	1,500,000	-	2,500,000	8,200,000
Knocklyon Road	4,500,000	4,500,000	-	9,000,000	3,000,000	0	-	6,000,000	9,000,000
Rathcoole Relief Road - phases 1 & 2	5,000,000	5,000,000	6,000,000	16,000,000	4,000,000	0	-	12,000,000	16,000,000
Aylmer to Peamount	1,000,000	4,000,000	4,000,000	9,000,000	4,000,000	0	-	5,000,000	9,000,000
Traffic Management Centre	1,650,000	2,220,000	1,700,000	5,570,000	3,095,000	2,475,000	-	0	5,570,000
Footpath repairs	2,000,000	2,000,000	2,000,000	6,000,000	0	0	6,000,000	0	6,000,000
New footpaths	300,000	300,000	300,000	900,000	900,000	0	-	0	900,000
Traffic calming	1,000,000	1,000,000	-	2,000,000	0	0	2,000,000	0	2,000,000
Rowlagh Parking	500,000	250,000	-	750,000	750,000	0	-	0	750,000
Sub total programme 2	29,650,000	31,970,000	16,200,000	77,820,000	24,345,000	13,975,000	8,000,000	31,500,000	77,820,000
Programme 3									
Rehab - Baldonnell	639,000	639,000		1,278,000	127,800	1,150,200	-	0	1,278,000
Rehab - Red Cow	274,000	274,000		548,000	54,800	493,200	-	0	548,000
Hot Spot - Oldbawn	135,000	135,000		270,000	27,000	243,000	-	0	270,000
Hot Spot - Limekiln	679,000	679,000		1,358,000	135,800	1,222,200	-	0	1,358,000
Hot Spot - Ballydowd	214,500	214,500		429,000	42,900	386,100	-	0	429,000
Hot Spot - Rathcoole	348,150	348,150		696,300	69,630	626,670	-	0	696,300
Lucan Spa DPS standby generator		200,000		200,000	200,000	0	-	0	200,000
Johnstown DPS Refurb	1,100,000			1,100,000	1,100,000	0	-	0	1,100,000
Quaryvales DPS Refurb	1,100,000			1,100,000	1,100,000				
Ardmor DPS Refurb	50,000			50,000	50,000	0	-	0	50,000
Esker DPS Replace Pumps 2 & 4	182,000			182,000	182,000	0	-	0	182,000
Esker DPS Replace Pumps 1 & 3	200,000			200,000	200,000	0	-	0	200,000
Esker DPS Macerating Chamber	1,000,000			1,000,000	1,000,000	0	-	0	1,000,000
Rain Gauges Various	110,000			110,000	110,000	0	-	0	110,000
Inlet Flow Meters Various	60,000	60,000	60,000	180,000	180,000	0	-	0	180,000
Belgard Water Res Wind Turbine	70,000			70,000	70,000	0	-	0	70,000
Ninth Lock Road/Nangor Road Upgrade	75,000			75,000	60,000	0	15,000	0	75,000
Avondale Terrace	79,750			79,750	63,800	0	15,950	0	79,750
Sarah Curran Avenue	77,000			77,000	61,600	0	15,400	0	77,000
Milltown Tower Diversion NC	105,000			105,000	84,000	0	21,000	0	105,000

Summary of projects committed where Council is obliged to complete, but not in Contract e.g. Adamstown Community Facilities and Nangor Road 2008-2010

Expenditure

PROGRAMME GROUP	2008	2009	2010	Total 2008 - 2010	Total Levies	Total Grants	Total Revenue	Total Disposals	Total
					0	0	0	0	
College Drive	57,750			57,750	46,200	0	11,550	0	57,750
Tara Hill Rathfarnham	57,750			57,750	46,200	0	11,550	0	57,750
Sarsfield Park, Lucan	55,000			55,000	44,000	0	11,000	0	55,000
Spring Bank, Saggart	41,250			41,250	33,000	0	8,250	0	41,250
Washington Lane, Rathfarnham									
	33,000			33,000	26,400	0	6,600	0	33,000
1 to 6 Old Bawn Road	13,750			13,750	11,000	0	2,750	0	13,750
St Agnes Ter., Rathfarnham	36,500			36,500	29,200	0	7,300	0	36,500
Newcastle Village	217,000			217,000	173,600	0	43,400	0	217,000
Newcastle Village to Greenogue									
	241,800			241,800	193,440	0	48,360	0	241,800
Newcastle College Lane	303,800			303,800	243,040	0	60,760	0	303,800
Station Road S/W	35,000			35,000	28,000	0	7,000	0	35,000
Hydrometric Stations Upgrades									
	35,000	35,000	35,000	105,000	84,000	0	21,000	0	105,000
ERBD	19,000			19,000	15,200	0	3,800	0	19,000
Whitechurch Stream/ School Culvert		500,000	400,000	900,000	720,000	0	180,000	0	900,000
Camac Culvert	15,000			15,000	12,000	0	3,000	0	15,000
Whitehall Road Local S/W		65,000		65,000	52,000	0	13,000	0	65,000
Cookstown/Airton Road FS Interconnect		500,000	500,000	1,000,000	800,000	0	200,000	0	1,000,000
Butterfield Ave FS Upgrade			100,000	100,000	80,000	0	20,000	0	100,000
Belgard Cookstown FS Upgrade									
		350,000	350,000	700,000	520,000	0	180,000	0	700,000
Camac Culvert Replacement	1,000,000	1,000,000	1,000,000	3,000,000	2,400,000	0	600,000	0	3,000,000
CSO Monitoring	20,000	50,000	50,000	120,000	96,000	0	24,000	0	120,000
Dodder Valley sewer Essential Works	100,000		100,000	200,000	160,000	0	40,000	0	200,000
Tobermaclugg Pumping Station									
	4,000,000	2,600,000		6,600,000	3,168,000	2,112,000	-	1,320,000	6,600,000
Tobermaclugg Stream Improvement	2,000,000	1,450,000		3,450,000	3,450,000	0	-	0	3,450,000
Sub total programme 3	14,780,000	9,099,650	2,595,000	26,474,650	17,350,610	6,233,370	1,570,670	1,320,000	26,474,650
Programme 4									
Grange Castle: Installation of CCTV	1,000,000			1,000,000	0	0	200,000	800,000	1,000,000
GCBPark Arts/Culture Scheme	200,000	200,000		400,000	0	400,000	-	0	400,000
Contract 9 Construction of Services to 30 Acres west of Grange Castle	2,000,000			2,000,000	0	0	-	2,000,000	2,000,000
Tallaght Town Centre: St. Maelruan's Field - preparation for Disposal	1,000,000			1,000,000	0	0	-	1,000,000	1,000,000
Tallaght Zip project (house & paving)	1,000,000	500,000		1,500,000	0	0	-	1,500,000	1,500,000
Keenbury Traffic Management Costs & Landscaping form Tallaght Hospital to Exchange Bldgs	400,000			400,000	0	0	-	400,000	400,000
Development of Green Routes/Cycleways - Dodder Pilot	2,000,000	1,000,000	1,000,000	4,000,000	0	0	-	4,000,000	4,000,000

Summary of projects committed where Council is obliged to complete, but not in Contract e.g. Adamstown Community Facilities and Nangor Road 2008-2010

Expenditure

PROGRAMME GROUP	2008	2009	2010	Total 2008 - 2010	Total Levies	Total Grants	Total Revenue	Total Disposals	Total
					0	0	0	0	
County Arts centre - access and landscape works	1,500,000			1,500,000	0	0	-	1,500,000	1,500,000
Acq Fossetts 12th Lock (univar access)	2,000,000			2,000,000	0	0	-	2,000,000	2,000,000
Development of ESB 110kv/Green Canal Route	5,000,000	5,000,000		10,000,000	0	0	-	10,000,000	10,000,000
50:50 Agreement - Dublin City Council (Shelbourne)	3,500,000			3,500,000	0	0	-	3,500,000	3,500,000
Derelict Sites Act: Acquisition of "Clarkeville", Palmerstown	250,000			250,000	0	0	-	250,000	250,000
Derelict Sites Act: Acquisition of No.4 Deansrath Cottages, Clondalkin	300,000			300,000	0	0	-	300,000	300,000
Derelict Sites Act: Acquisition of "Tony Kearns Motors", Palmerstown	400,000			400,000	0	0	-	400,000	400,000
Derelict Sites Act: Acquisition of No.116 Sarsfield Park, Lucan	245,000			245,000	0	0	-	245,000	245,000
Derelict Sites Act: Provision for Future Acquisitions	500,000	500,000	500,000	1,500,000	0	0	-	1,500,000	1,500,000
Derelict Site Act Acq 2 Fernwood	150,000			150,000	0	150,000	-	0	150,000
Milltown Park- Prov of Infrastruct	2,000,000	3,000,000	2,000,000	7,000,000	0	0	-	7,000,000	7,000,000
Access Road Dublin Bus & Civic Amenity Clutterland	500,000	2,000,000		2,500,000		500,000	-	2,000,000	2,500,000
Sub total programme 4	23,945,000	12,200,000	3,500,000	39,645,000		1,050,000	200,000	38,395,000	39,645,000
Programme 5									
Ballymount Depot	2,150,000	2,150,000		4,300,000	4,300,000	0	-	0	4,300,000
CCRI	1,100,000			1,100,000			1,100,000		1,100,000
Ballymount Baling Station	900,000	150,000		1,050,000	0	0	1,050,000	0	1,050,000
Sub total programme 5	4,150,000	2,300,000	-	6,450,000	4,300,000	0	2,150,000	0	6,450,000
Programme 6									
Templeogue House	1,000,000	1,500,000		2,500,000	2,500,000	0	-	0	2,500,000
Neilstown Boxing Club	1,000,000	500,000		1,500,000	500,000	1,000,000	-	0	1,500,000
Rowlagh Community Centre	1,300,000			1,300,000	0	1,300,000	-	0	1,300,000
St. Marks Youth and Family Cent	1,500,000	500,000		2,000,000	1,800,000	200,000	-	0	2,000,000
Adamstown Civic Centre/Sports H	1,000,000	3,000,000	1,000,000	5,000,000	5,000,000	0	-	0	5,000,000
Grange Castle Golf Course	1,500,000	1,200,000		2,700,000	0	0	-	2,700,000	2,700,000
Sports Capital Grant Projects		1,500,000		1,500,000	500,000	1,000,000	-	0	1,500,000
Parks Improvements Works		4,000,000		4,000,000	4,000,000	0	-	0	4,000,000
Playgrounds		1,600,000		1,600,000	1,000,000	600,000	-	0	1,600,000
Other Capital		350,000		350,000	0	350,000	-	0	350,000
Sub total programme 6	7,300,000	14,150,000	1,000,000	22,450,000	15,300,000	4,450,000	-	2,700,000	22,450,000
Overall totals	79,825,000	69,719,650	23,295,000	172,839,650	-	61,295,610	25,708,370	11,920,670	73,915,000

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

Summary of projects planned but subject to availability of funding 2008-2010

PROGRAMME GROUP	Expenditure			Total 2008 - 2010	Total Levies	Total Grants	Total Revenue	Total Disposals	Total
	2008	2009	2010						
Programme 1					-	-	-	-	
Programme 2	6,900,000	23,150,000	34,207,000	64,257,000	13,850,000	2,450,000	-	47,957,000	64,257,000
Programme 3	3,256,893	17,252,109	22,203,897	42,712,899	19,857,921	12,048,640	8,272,851	2,533,487	42,712,899
Programme 4	18,575,000	8,900,000	6,700,000	34,175,000	-	-	-	34,175,000	34,175,000
Programme 5	1,320,000	3,000,000	-	4,320,000	-	3,000,000	1,320,000	-	4,320,000
Programme 6	11,135,000	24,750,000	11,000,000	46,885,000	6,850,000	21,059,214	735,000	18,240,786	46,885,000
					-	-	-	-	
Overall Total	41,186,893	77,052,109	74,110,897	192,349,899	40,557,921	38,557,854	10,327,851	102,906,273	192,349,899

Detail per programme group of projects planned but subject to availability of funding 2008-2010

Expenditure

PROGRAMME GROUP	2008	2009	2010	Total 2008 - 2010	Total Levies	Total Grants	Total Revenue	Total Disposals	Total
Programme 2									
Greenhills Road Reconfiguration (Part of Walkinstown / Saggart Rd)	200,000	8,000,000	8,000,000	16,200,000		-	-	16,200,000	16,200,000
Newcastle Road Realignment R120	1,500,000	6,000,000	3,000,000	10,500,000	9,000,000	-	-	1,500,000	10,500,000
Peamount to Celbridge Road	250,000	1,000,000	10,000,000	11,250,000	-	-	-	11,250,000	11,250,000
Stocking lane (Road Upgrade)	-	-	7,157,000	7,157,000	1,500,000	-	-	5,657,000	7,157,000
Stocking lane (foothpath/cycle track)	300,000	100,000		400,000	-	-	-	400,000	400,000
Whitechurch Road	2,000,000	2,000,000	500,000	4,500,000	-	-	-	4,500,000	4,500,000
Parking and Signing Infrastructure	1,150,000	1,100,000	1,100,000	3,350,000	3,350,000	-	-	-	3,350,000
Demand Management Strategy	300,000	1,950,000	4,450,000	6,700,000	-	2,450,000	-	4,250,000	6,700,000
Driver training	200,000	2,000,000		2,200,000	-	-	-	2,200,000	2,200,000
Miscellaneous	1,000,000	1,000,000		2,000,000	-	-	-	2,000,000	2,000,000
Sub total programme 2	6,900,000	23,150,000	34,207,000	64,257,000	13,850,000	2,450,000	-	47,957,000	64,257,000
Programme 3									
Moorfield to Cloverhill Road			213,120	213,120	170,496	-	42,624	-	213,120
Moorfield to Foxdene Esker			410,880	410,880	-	410,880	-	-	410,880
Western way Peamount Road to Celbridge Road and link to Milltown	136,893	1,642,712	821,356	2,600,961	2,080,769	-	520,192	-	2,600,961
Stocking Lane		45,440	136,320	181,760	145,408	-	36,352	-	181,760
Whitechurch Road		76,198	41,562	117,760	-	117,760	-	-	117,760
Barton Road Ext		146,598	79,962	226,560	181,248	-	45,312	-	226,560
Belgard Water Res Wind Turbine	70,000			70,000	-	-	-	70,000	70,000
Ballymanaggan Standby Generator			100,000	100,000	-	-	-	100,000	100,000
Lucan Low Level DPS Pumps 3 & 4			250,000	250,000	-	-	-	250,000	250,000
Newcastle DPS Pumps 3 & 4			250,000	250,000	-	-	-	250,000	250,000
Whitehall DPS New Pumps			100,000	100,000	-	-	-	100,000	100,000
Lucan Spa Drainage PS New Pumps	50,000			50,000	-	-	-	50,000	50,000
Peamount Hospital to Milltown		378,164		378,164	-	-	75,633	302,531	378,164
Butterfield Crescent, Rathfarnham		391,355		391,355	-	-	78,271	313,084	391,355
Anne Devlin, Rathfarnham		571,642		571,642	-	-	114,328	457,314	571,642
Main Street, Rathcoole			243,096	243,096	-	-	48,619	194,477	243,096
Ballycullen Drive, Firhouse			10,635	10,635	-	-	2,127	8,508	10,635
Loughtown Road, Peamount			546,966	546,966	-	-	109,393	437,573	546,966
Gr. Dublin Drainage 9B Scheme	1,000,000	5,000,000	10,000,000	16,000,000	7,680,000	5,120,000	3,200,000	-	16,000,000

Detail per programme group of projects planned but subject to availability of funding 2008-2010

Expenditure									
PROGRAMME GROUP	2008	2009	2010	Total 2008 - 2010	Total Levies	Total Grants	Total Revenue	Total Disposals	Total
Dodder Valley FS Improvement Sch.	1,000,000	4,000,000	4,000,000	9,000,000	4,320,000	2,880,000	1,800,000	-	9,000,000
Saggart/Rathcoole Drain Coll Sch.	1,000,000	5,000,000	5,000,000	11,000,000	5,280,000	3,520,000	2,200,000	-	11,000,000
Sub total programme 3	3,256,893	17,252,109	22,203,897	42,712,899	19,857,921	12,048,640	8,272,851	2,533,487	42,712,899
Programme 4									
Grange Castle : Golf Course lands (Club house)	4,500,000			4,500,000	-	-	-	4,500,000	4,500,000
Grange Castle: Restoration of Kilcarbery House	100,000	100,000	100,000	300,000	-	-	-	300,000	300,000
Grange Castle: Restoration of Grange Castle	100,000	500,000	500,000	1,100,000	-	-	-	1,100,000	1,100,000
Grange Castle: Preserve and Refurbish Grange Cottage - Craft Centre		1,000,000	1,000,000	2,000,000	-	-	-	2,000,000	2,000,000
Grange Castle: Archaeology / Investigations / Resolutions	100,000			100,000	-	-	-	100,000	100,000
Grange Castle: Management Building - Paving, Signage & Landscaping	25,000			25,000	-	-	-	25,000	25,000
Acquisition of No 1 Millview, Clondalkin	500,000			500,000	-	-	-	500,000	500,000
2 Bawnlea Green (acquisition)	400,000			400,000	-	-	-	400,000	400,000
Neilstown Sc Clondalkin (carpark, access & CCTV)	400,000			400,000	-	-	-	400,000	400,000
Provision of allotments in South Dublin County Council	100,000	100,000	100,000	300,000	-	-	-	300,000	300,000
Round Tower Project	2,150,000	2,150,000		4,300,000	-	-	-	4,300,000	4,300,000
Sleeves under railway Kishoge (220kv)	100,000			100,000	-	-	-	100,000	100,000
Works to acquired properties prior to re-sale/let/lease	100,000	50,000		150,000	-	-	-	150,000	150,000
Long term acquisitions	10,000,000	5,000,000	5,000,000	20,000,000	-	-	-	20,000,000	20,000,000
Sub total programme 4	18,575,000	8,900,000	6,700,000	34,175,000	-	-	-	34,175,000	34,175,000
Programme 5									
Civic Amenity & Recycling Centre at Clutterland	1,000,000	3,000,000		4,000,000	-	3,000,000	1,000,000	-	4,000,000
Boherhabreena Burial Ground	320,000			320,000	-	-	320,000	-	320,000
Sub total programme 5	1,320,000	3,000,000		4,320,000	-	3,000,000	1,320,000	-	4,320,000
Programme 6									
Regional Library (Liffey Valley) for N.Clondalkin/ Palmerstown		4,000,000	4,000,000	8,000,000	-	8,000,000	-	-	8,000,000
Digital Hub, Palmerstown	1,000,000			1,000,000	-	-	-	1,000,000	1,000,000
Ballyroan Library Extension	1,000,000	3,000,000		4,000,000	-	4,000,000	-	-	4,000,000
Lucan Sports and leisure Centre	2,000,000	12,500,000		14,500,000	2,000,000	3,809,214	-	8,690,786	14,500,000
Ballycragh Community Centre	1,000,000	600,000		1,600,000	800,000	200,000	600,000	-	1,600,000
Kiltalown House	135,000			135,000	-	-	135,000	-	135,000
Jobstown Youth Drop in Centre	3,000,000			3,000,000	-	2,100,000	-	900,000	3,000,000
Ballyroan Community Centre	700,000	500,000		1,200,000	-	200,000	-	1,000,000	1,200,000
Palmerstown Community Centre	300,000	600,000		900,000	-	-	-	900,000	900,000
South West Clondalkin Community Centre	1,500,000	1,550,000		3,050,000	550,000	500,000	-	2,000,000	3,050,000
Ballyroan Pastoral Centre	500,000	1,000,000		1,500,000	-	-	-	1,500,000	1,500,000
Music Studio		1,000,000		1,000,000	-	1,000,000	-	-	1,000,000
Grange Castle Golf Course			250,000	250,000	-	-	-	250,000	250,000

Detail per programme group of projects planned but subject to availability of funding 2008-2010

Expenditure

PROGRAMME GROUP	2008	2009	2010	Total 2008 - 2010	Total Levies	Total Grants	Total Revenue	Total Disposals	Total
Sports Capital Grants			1,000,000	1,000,000	350,000	650,000	-	-	1,000,000
Parks Improvements Works			4,500,000	4,500,000	2,500,000	-	-	2,000,000	4,500,000
Playgrounds			850,000	850,000	650,000	200,000	-	-	850,000
Other Capital			400,000	400,000	-	400,000	-	-	400,000
Sub total programme 6	11,135,000	24,750,000	11,000,000	46,885,000	6,850,000	21,059,214	735,000	18,240,786	46,885,000
				-					
Overall totals	41,186,893	77,052,109	74,110,897	192,349,899	40,557,921	38,557,854	10,327,851	102,906,273	192,349,899

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

Development Levies

PROGRAMME GROUP	Contracts	Commitments	Planned	Totals	Percentage
Programme 1	-	-	-	-	
Programme 2	39,375,801	24,345,000	13,850,000	77,570,801	53%
Programme 3	9,820,582	16,250,610	19,857,921	45,929,113	31%
Programme 4	-	-	-	-	
Programme 5	-	4,300,000	-	4,300,000	3%
Programme 6	2,418,218	9,800,000	6,850,000	19,068,218	13%
Totals	51,614,601	54,695,610	40,557,921	146,868,132	100%

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

PROGRAMME GROUP 3											
THREE YEAR CAPITAL PROGRAMME 2007-2009											
DESCRIPTION	Projected Expenditure 2007-2009					2007-2009 FUNDED BY					
	2006	2007	2008	2009	Total	Funding	Levies	Agency Work	Water Pricing	Grants	Total
Water and Drainage Design											
Boherboy Water Supply Scheme	€1,007,323	€10,000,000	€16,000,000	€4,500,000	€30,500,000	20% WP, 70.83% Grants, 9.17% Levies	€2,795,833		€6,100,000	€21,604,167	€30,500,000
Lucan/Palmerstown WSS	€150,000	€150,000	€0	€0	€150,000	20%WP, 80% Grants	€0		€30,000	€120,000	€150,000
Gr. Dublin Drainage 9B Scheme	€20,000	€1,000,000	€5,000,000	€4,980,000	€10,980,000	20%WP, 32% Grants, 48% Levies (SLI Scheme)	€5,270,400		€2,196,000	€3,513,600	€10,980,000
Griffen Flood Alleviation	€17,000	€0	€0	€0	€17,000						
Dodder Valley FS Improvement Sch.	€20,000	€1,000,000	€7,000,000	€8,000,000	€16,000,000	Ditto	€7,680,000		€3,200,000	€5,120,000	€16,000,000
Saggart/Rathcoole New Foul Main Drain.	€150,000	€0	€0	€0	€150,000						
Saggart/Rathcoole Drain Coll Improvement Sch.	€400,000	€1,000,000	€5,000,000	€5,000,000	€11,000,000	Ditto	€5,280,000		€2,200,000	€3,520,000	€11,000,000
*Tobermaclugg Pumping Station	€1,452	€1,600,000	€1,080,000	€0	€2,680,000	Developer led				€2,680,000	€2,680,000
*Tobermaclugg Rising Main & Gravity Sewers		€1,768,000	€400,000	€0	€2,168,000	Ditto				€2,168,000	€2,168,000
*Tobermaclugg Stream Improvement Scheme		€900,000	€580,000	€0	€1,380,000	Ditto				€1,380,000	€1,380,000
TOTAL	€1,765,775	€17,318,000	€35,060,000	€22,480,000	€74,858,000		€21,026,233		€13,726,000	€40,105,767	€74,858,000
*For developer led projects Council expenditure 40% of total expenditure											
DESCRIPTION	Projected Expenditure					Funding					
	2006	2007	2008	2009	TOTAL (2007-2009)	Levies	Agency Work	Water Pricing	Grants	TOTAL	
Water Network Management (Roads Schemes)											
Green Route Completer	115790.7692	385.969			385,969	385,969		77194		385,969	
Firhouse Rd.	70.560	211.680			211,680		211,680			211,680	
Outer Ring Road Phase 2	599,040	49,920			49,920	49,920		9984		49,920	
Greenhills/Ballymount Rd Reconfig (Limekiln + QBC + Greenhills + Robinhood Rd)		112,811	310,229		423,040		423,040			423,040	
Nangor Rd extension & Baldonnel Rd. lin		716,800	268,800		985,600	788480		197120		985,600	
Knocklyon Rd.		103,040	44,160		147,200	117760		29440		147,200	
Belgard Rd to Citywest (Belgard to Cookstown 400main)		200,084	145,516		345,600		345,600			345,600	
Belgard to Citywest (Cookstown Road to Outer Ring Rd. Phase 3.)		217,234	543,086		760,320		760,320			760,320	
Lucan/Newcastle Rd realignment . (Finnstown House to Milltown)		551,467	1,102,933		1,654,400	1323520		330880		1654400	
N82 replacement to Fortunestown Lane	196,493	381,427			381,427	381427				381427	
Moorefield to Cloverhill Rd					0	0		0		0	
Moorefield to Foxdene, Eske					0			0		0	
Western Way - Peamount Road to Celbridge Road + Link to Milltown.			136,893	1,642,712	1,779,604	1423683		355921		1779604	
Newcastle East By Pass Peamount Road to College Lane.		663,893	1,327,787		1,991,680	1593344		398336		1991680	
Knockmitten Lane, Western Ind. Est		48,960			48,960		48960			48960	
Cookstown Lane		119,040			119,040	95232		23808		119040	
Stoney Lane		18,688	74,752		93,440	74752		18688		93440	
Stocking Lane				45,440	45,440	36352		9088		45440	
Whitechurch Road				76,198	76,198		76198			76198	
Barton Road Extension				146,598	146,598	117278		29320		146598	
Outer Ring Road to Adamstown Link Road	545,045	181,682			181,682	181682				181682	
QBC - Link Newlands Cross to Road crossing off 18 th on the Naas Rd. at Heitons.					0	0		0		0	
Alpine Heights to Grange castle					0	0		0		0	
QBC - Lucan to Newcastle Castle Rd. (Superquinn)		40,533			121,600		121600			121600	
QBC - Lucan to Newcastle Castle Rd. (Superquinn)		30,400	60,800		91,200		91200			91200	
N4- Lucan Bypass:-					0					0	
Replace ex pipe		991,680	991,680		1,983,360		1983360			1983360	
Lay new mains		568,320	568,320		1,136,640	909312		227328		1136640	
Total Water Network Management (Road Schemes)	1,526,928	5,593,628	5,656,023	1,910,947	13,160,597	7,391,534	4,061,958	1,707,106	0	13,160,597	

Water Conservation Prog 2006										
Subdivision of DMAs - PRVs etc	96,000	561,450			561,450	56,145			505305	561,450
Total Water Conservation Prog 2006	96,000	561,450	0	0	561,450	56,145			505305	561,450
Non Domestic Metering Project										
Project	1,700,000	4,300,000	2,000,000		6,300,000			5,687,640	612,360	6,300,000
Enabling Network Management		1,365,000			1,365,000	1,092,000		273,000		1,365,000
DRNDMP Total	1,700,000	5,665,000	2,000,000	0	7,665,000	1,092,000	0	5,960,640	612,360	7,665,000
DRWCP Rehab. Schemes										
Baldonnell			658,000	658,000	1,316,000	131,600			1184400	1,316,000
Red Cow			1,207,500	1,207,500	2,415,000	241,500			2173500	2,415,000
Western IE			1,715,000	1,715,000	3,430,000	343,000			3087000	3,430,000
Robinhood			1,460,500	1,460,500	2,921,000	292,100			2628900	2,921,000
Total Rehab. Schemes			5,041,000	5,041,000	10,082,000	1,008,200	0	0	9,073,800	10,082,000
TOTAL for Water Management Sector	3,322,928	11,820,078	12,697,023	6,951,947	31,469,047	9,547,879	4,061,958	7,667,746	10,191,465	31,469,047

Projected Expenditure 2007-2009						2007-2009 FUNDED BY				
DESCRIPTION	2006	2007	2008	2009	TOTAL (2007-2009)	Levies	Agency Work	Water Pricing	Grants	TOTAL
Water Maintenance - Upgrade										
Kilteel Road main extension, Rathcoole				69,000	69,000	55,200		13,800		69,000
Kildare Route Project		150,000	150,000		300,000	300,000				300,000
Tootenhill, Rathcoole	34,500							0		0
West park Upgrade, Rathcoole	27,600							0		0
Newlands Estate 150mm	27,000							0		0
Peamount Hospital Link	48,250									
Farrells Caravan Park, Tay lane	67,500							0		0
Enabling Work for Orbital QBC 9th Lock Rd/ Nangor Road	275,500							0		0
St Brigid's Estate	195,400							0		0
Shelton/Dangan Park	85,200							0		0
St Patricks Cottages/Tara Hill	137,450							0		0
Enabling Work for Orbital QBC 9th Lock Rc		64,800			64,800	51,840		12,960		64,800
Fortfield Drive		57,200			57,200	45,760		11,440		57,200
Fortfield Park		50,600			50,600	40,480		10,120		50,600
Fortfield Avenue		46,200			46,200	36,960		9,240		46,200
Perrystown DMA (Rockfield, Shelton Ave and Drive)		40,800			40,800	32,640		8,160		40,800
168 to 192 Whitehall Road		28,800			28,800	23,040		5,760		28,800
Aylmer Road	195,000	547,500			547,500	438,000		109,500		547,500
Old Hill, Lucan		351,000			351,000	280,800		70,200		351,000
Old Ballydowd, Lucan		213,000			213,000	170,400		42,600		213,000
Milltown Tower Diversion, Newcastle Roac			105,000		105,000	84,000		21,000		105,000
Avondale Terrace, Walkinstowr			69,600		69,600	55,680		13,920		69,600
Sarah Curran Ave			61,600		61,600	49,280		12,320		61,600
College Drive			56,700		56,700	45,360		11,340		56,700
Tara Hill main			46,200		46,200	36,960		9,240		46,200
Sarsfield Park, Lucan			44,000		44,000	35,200		8,800		44,000
Springbank			30,000		30,000	24,000		6,000		30,000
Washington Lane			26,400		26,400	21,120		5,280		26,400
1-6 Old Bawn Road			8,000		8,000	6,400		1,600		8,000
Ballymace Green				86,160	86,160	68,928		17,232		86,160
Ann Devlin Road (additional to 2005 scheme)				46,080	46,080	36,864		9,216		46,080
Marian Road				328,560	328,560	262,848		65,712		328,560
Green hills Road				234,000	234,000	187,200		46,800		234,000
Shelton & Dangan Park (additional to 2006 scheme)				156,000	156,000	124,800		31,200		156,000
Water Course				12,000	12,000	9,600		2,400		12,000
Butterfield Crescent				69,600	69,600	55,680		13,920		69,600
Butterfield Drive				66,000	66,000	52,800		13,200		66,000
Old Ballymount Lane				24,000	24,000	19,200		4,800		24,000
Dodsborough				72,000	72,000	57,600		14,400		72,000
Total Water Maint. Schemes	1,093,400	1,549,900	597,500	1,163,400	3,310,800	2,708,640	0	602,160	0	3,310,800

Projected Expenditure 2007-2009						2007-2009 FUNDED BY				
DESCRIPTION	2006	2007	2008	2009	TOTAL	Levies	Agency Work	Water Pricing	Grants	TOTAL
Drainage Maintenance - Upgrade										
Camac Culvert	450,000									
Carralmore	15,000									
Bohernabreena Burial Grounc	174,000									
Beech Row Sewer Duplication		96,000			96,000	76,800		19,200		96,000
Deansrath Depot - materials bay		50,000			50,000	50,000				50,000
Kilmahudrick Stream Regrading		30,000	10,000	20,000	60,000	60,000				60,000
Cherryfield Halting Site		12,000			12,000		12,000			12,000
St Lomans Halting Site		8,000			8,000		8,000			8,000
Composite Samplers & Meters		100,000			100,000	80,000		20,000		100,000

Infrastructural Projects - Internal / Intranet Tracking System. Projects identified under Wastewater Infrastructure / Water Quality.

Date of query – 30/11/07

My Projects:	
Project ID:	78
Department	Environment
Area	Lucan / Clondalkin
Title	Tobermaclugg Pumping Station
Location	Adamstown
Description	Wastewater pumping station serving Adamstown.
Category	Schemes under Construction
Funding	DEHLG/Developers
Owner	TOM MOYNE
Planning Reg	<input type="checkbox"/>
Internal	<input checked="" type="checkbox"/>
Members	<input type="checkbox"/>
Press	<input type="checkbox"/>
Public	<input type="checkbox"/>
Updated:	14/11/2007
Updated By	TOM MOYNE

Only Show Internal Comments

Draft Agreement expected end of November 2007.

Draft Agreement between SDCC and Chartridge being finalised by McCann Fitzgerald and expected to be ready by 31/10/07

Construction commenced on-site late August 2007

Agreement between Council and Chartridge drawn up and signing expected in next three weeks.

Received qualified approval from DEHLG on 6th June 2007.

Awaiting DEHLG approval of Tender Report submitted on 27th April, 2007.

John O'Connor has accepted position of Tobermaclugg SRE

My Projects:	
Project ID:	77
Department	Environment
Area	Tallaght
Title	Saggart/Rathcoole/Newcastle Drainage Collection Scheme
Location	Saggart/Rathcoole/Newcastle
Description	Drainage Scheme including pumping station.
Category	Tender Documents Being Prepared
Funding	DEHLG/Levies
Owner	TOM MOYNE
Planning Reg	<input type="checkbox"/>
Internal	<input checked="" type="checkbox"/>
Members	<input type="checkbox"/>
Press	<input type="checkbox"/>
Public	<input type="checkbox"/>
Updated:	14/11/2007
Updated By	TOM MOYNE

Only Show Internal Comments

PPP report to be submitted to DEHLG by 30/11/07

PPP report to be finalised and submitted to DEHLG by the 31/10/07

Draft Water Pricing received from consultants.

DEHLG request Water Pricing Report which is being prepared by our Consultants Atkins

Prepare Part 8 on receipt of DEHLG approval.

SDCC Part VIII system v1.0

My Projects:	
Project ID:	229
Department	Environment
Area	Terenure / Rathfarnham
Title	Whitehall Road Flood Alleviation Scheme
Location	Terenure
Description	Attenuation of Poddle river and separation of surface water from combined sewer
Category	Schemes At Design Stage
Funding	
Owner	TOM MOYNE
Planning Reg	<input type="checkbox"/>
Internal	<input type="checkbox"/>
Members	<input type="checkbox"/>
Press	<input type="checkbox"/>
Public	<input type="checkbox"/>
Updated:	14/11/2007
Updated By	

Only Show Internal Comments

Topographic Survey completed 31/10/07.

Survey submitted by FCG for comment on 17/09/07

Tenders received for Topographical Survey of Tymon Park received 16th April, 2007

SDCC Part VIII system v1.0

My Projects:	
Project ID:	232
Department	Strategic / Regional Projects
Area	Lucan / Clondalkin
Title	GDSDS - SEA (FCC)
Location	Greater Dublin Region
Description	Strategic Environmental Assessment of GDSDS
Category	Schemes At Concept Stage
Funding	DEHLG/Levies
Owner	TOM MOYNE
Planning Reg	<input type="checkbox"/>
Internal	<input checked="" type="checkbox"/>
Members	<input type="checkbox"/>
Press	<input type="checkbox"/>
Public	<input type="checkbox"/>
Updated:	15/10/2007
Updated By	TOM MOYNE

Only Show Internal Comments

Draft Environmental Report went on public display from 1st October,2007 until 30th November.

Regional SPC meeting on 24th Sept to discuss Final Scoping Report.

SDCC Part VIII system v1.0

My Projects:	
Project ID:	227
Department	Environment
Area	Tallaght
Title	Dodder Valley Catchment - Drainage Strategy Review
Location	South SDCC
Description	Foul Sewer Improvement Scheme
Category	Schemes At Concept Stage
Funding	
Owner	TOM MOYNE
Planning Reg	<input type="checkbox"/>
Internal	<input type="checkbox"/>
Members	<input type="checkbox"/>
Press	<input type="checkbox"/>
Public	<input type="checkbox"/>
Updated:	14/11/2007
Updated By	TOM MOYNE

Only Show Internal Comments

Design Brief to be submitted to DEHLG by 30/11/07.

Draft Design Brief for the appointment of Consultants being finalised and expect to submit to DEHLG by 31/10/07

Approval of Design Review approved by DEHLG on 15th May 2007.

Prepare Design Brief for appointment of consultants for preparation of Preliminary Report, Contract Documents and Supervision of Construction.

DEHLG approved Review Report on 15th May, 2007.

Awaiting DEHLG approval to go to detailed design stage - requested in our submission of 13th June 2005

SDCC Part VIII system v1.0

My Projects:	
Project ID:	228
Department	Environment
Area	Lucan / Clondalkin
Title	9B Foul Sewer Improvement Scheme
Location	North SDCC
Description	Foul Sewer Improvement Scheme
Category	Schemes At Concept Stage
Funding	
Owner	TOM MOYNE
Planning Reg	<input type="checkbox"/>
Internal	<input type="checkbox"/>
Members	<input type="checkbox"/>
Press	<input type="checkbox"/>
Public	<input type="checkbox"/>
Updated:	14/11/2007
Updated By	TOM MOYNE

Only Show Internal Comments

Design brief to be submitted to DEHLG by 30/11/07.

Awaiting comments from DCC

Draft Design Brief incorporating new Conditions of Engagement submitted to DCC on 23rd August 2007.

Design Brief for Appointment of Consultants to be completed June 2007

SDCC Part VIII system v1.0

Introduction

This document is the Second Implementation Report, as required under Article 10(2) of the Water Quality (Dangerous Substances) Regulations 2001 (S.I. No. 12 of 2001), for South Dublin County Council (SDCC). Article 10(2) requires that each Local Authority submits a progress report in relation to implementation of measures taken or to be taken by the authority in pursuance of complying with Article 8 of the Regulations.

Article 8 of the Water Quality (Dangerous Substances) Regulations 2001 (S.I. No. 12 of 2001) requires local Authorities to:-

- (a) ensure that, where the existing condition of a water body does not meet a specified standard in relation to a substance, there shall be no disimprovement in the condition of the water body in relation to that substance, and,
- (b) to ensure compliance with the specified standards not later than 31 December 2010.

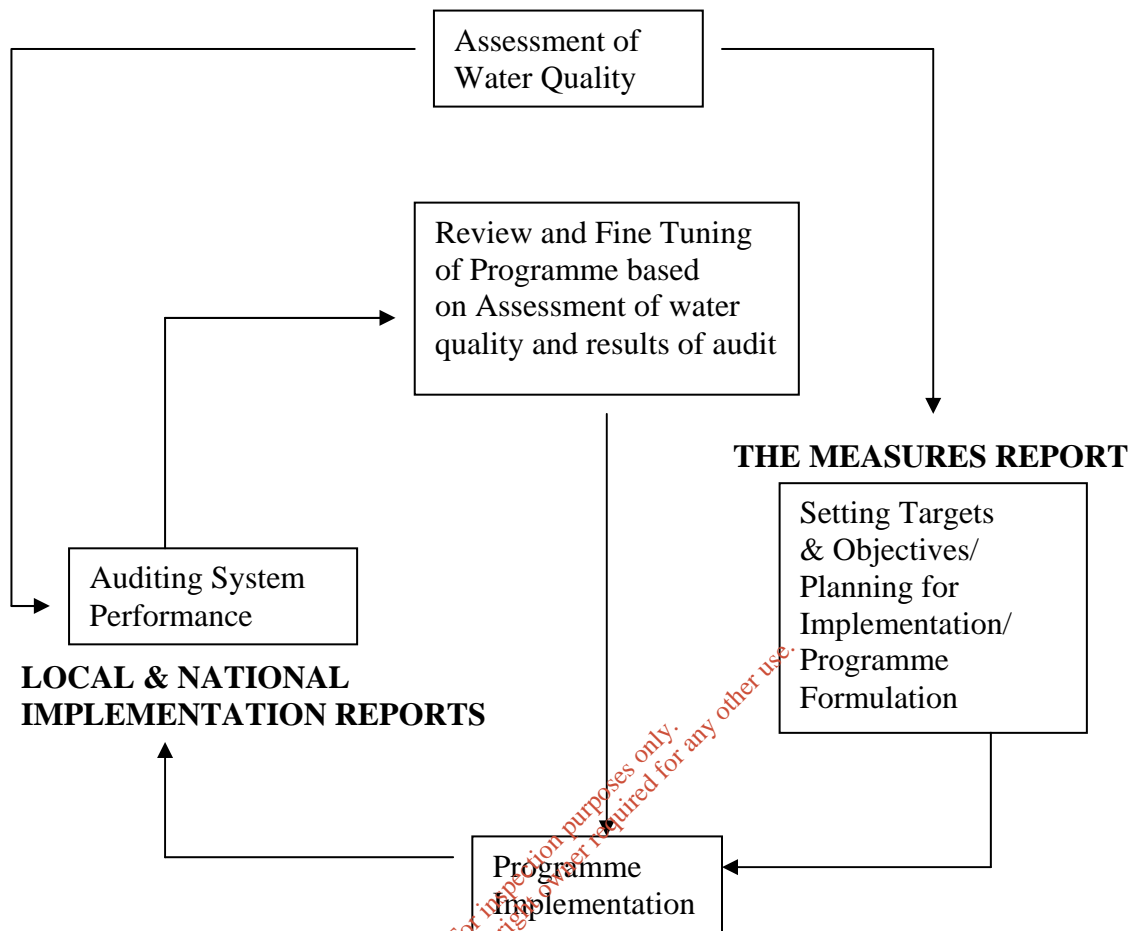
The Measures Report (2002) and first Implementation Report (2004) have been submitted previously to the Agency.

This report outlines the current condition of waters in the SDCC catchment in relation to the substances listed in the Regulations. In addition the report also outlines measures that will be undertaken to achieve the target concentrations of those listed substances by the specified date in areas where sampling has indicated regular concentrations above maximum allowable values.

Following advice from the Environmental Protection Agency (EPA) concerning the implementation of the Regulations, SDCC has adopted an environmental management systems approach. This approach operates on the principal of continuous improvement, which is appropriate to this Measures Programme, as SDCC are required to assess the progress of the measures and submit Implementation Reports at intervals of two years.

A generalised form of the environmental management systems approach used in this Programme can be seen in Figure 1.1 as recommended by the E.P.A.

Figure 1.1: Environmental Management Systems approach to Dangerous Substances Measures Programme.



While many aspects of the Dangerous Substances Measures Programme are similar to those currently being implemented in the South Dublin County Council Phosphorus Measures Programme or may, in future, be similar to measures recommended by catchment or river basin management systems projects (i.e. ERBD), it is intended that the Dangerous Substances Measures Programme will continue to be implemented on its own merits. Future recommendations by the Agency regarding the implementation of the Water Framework Directive monitoring programme will be implemented by SDCC.

Context

The administrative county of South Dublin, comprising 222.74 square kilometres, lies between the River Liffey in the North, the Wicklow border in the South, the Kildare border in the West and the boundaries of the Dublin City Council and Dun Laoghaire – Rathdown Administrative Councils in the East. The most recent census gives the current population of South Dublin as approximately 246,919.

The land use of the County can be divided between residential and industrial areas and agricultural areas. In the main the agricultural activities are confined to the west and the south of the County with residential and industrial areas to the north, northeast and east of the County. However a large proportion of the agricultural land remaining

in the County has already been zoned for future development and those agricultural activities that remain would be classed as low-intensity.

The high level of industrial activity in the County can be seen reflected in the 133No. Section 16 Licences, 11No. Section 4 Licences and a combination of 20No. I.P.P.C. and Waste Management Act Licences currently active in the County.

The main river catchments in the County, are the Brittas, the Camac, Dodder, Griffeen, Liffey, Owendoher and the Poddle. As no specific river catchments were specified in the Regulations, it was decided that each of these catchments will form part of the Measures Programme. These catchments drain the majority of the County and their inclusion in the Measures Programme will give an accurate reflection of the levels of dangerous substances in the waters of the County.

In 2002 the two wastewater treatment plants, namely Saggart and Clondalkin WWTPs, operated by South Dublin County Council, ceased operation and the foul drainage from these areas of the County was connected to the main trunk sewer systems i.e the Dodder Valley Sewer and the 9B Sewer respectively, for eventual treatment at the Wastewater Treatment Plant at Ringsend.

Background

The fourteen substances specified in the Regulations can be classed into separate groups and are listed below.

Pesticides.

Atrazine
Simazine
Tributyltin

Volatile Organic Carbons.

Dichloromethane
Toluene
Xylenes

Metals.

Arsenic
Chromium
Copper
Lead
Nickel
Zinc

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

Others.

**Fluoride
Cyanide**

Background information and potential sources of these substances have already been supplied in Annex D of the Dangerous Substances Regulations, 2001 – EPA Guidance on Report Preparation Document. A copy of this Annex was also submitted as part of the original South Dublin County Council Dangerous Substances Measures Report.

As stated earlier, Article 8(b) of the regulations requires that these programmes have a target date of 2010 by which time it is expected that concentrations of all substances listed above will be below the target concentrations published in the Regulations.

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

Section 1: Current Water Quality Status and Targets.

The attached table, Table 1.1, outlines the current River Quality Status in South Dublin with reference to the substances prescribed under the Dangerous Substances Regulations.

The concentrations listed for each Monitoring Station in Table 1.1 are derived from the results of the samples taken by South Dublin County Council Staff as part of the Dangerous Substances Monitoring Programme. The sample results listed in this report cover the period October 2004 to June 2006.

In consultation with the Dublin City Council Central Laboratory, it was agreed to continue with the network of monitoring stations, which had been decided upon and included in the previous Measures Report 2000 and Implementation Report 2004. Due to capacity pressures on the DCC Central Laboratory it was agreed between SDCC and DCC to reduce the sampling frequency at the monitoring stations to quarterly. The sample results listed in Table 1.1 indicate that apart from very infrequent occasions the concentrations of the listed substances at the Monitoring Stations do not exceed the target values set down in the Regulations. A map indicating the locations of the monitoring points is included in Appendix B.

When compiling Table 1.1, the mean concentrations of each of the parameters for the Monitoring Stations were used. It should be noted that in some cases it is possible the mean concentrations have delivered false reports. Some of the analysis data only indicates whether a sample concentration is below a certain threshold so when calculating a mean concentration it is not possible to use an accurate value and thus the mean concentration calculated may not be entirely accurate.

The complete set of sample results of the analysis carried out to date is presented in Appendix C.

In general, when looking at Table 1.1, the water quality in South Dublin, as regards the substances listed in the Regulations, is considered acceptable. Most of the monitoring points have water quality that already meets the standards set in the Regulations to be achieved by 2010. Further investigations are required to ascertain why those other points are currently listed as unsatisfactory.

It is the intention of this report and the follow up Implementation Reports for 2008 and 2010 to detail progress in ensuring that the waters of South Dublin comply with the standards set in the Regulations.

South Dublin has no natural lakes* or coastal waters therefore no returns are required for Tables 1.2 and 1.3.

* **Note:** Glenasmole, in the South Uplands, is a reservoir used for the purposes of providing drinking water and is operated and controlled by Dublin City Council. The River Dodder which feeds the reservoir is sampled for DS downstream from the reservoir by South Dublin County Council.

The Brittas is a privately owned, man made reservoir, adjacent to the N81, at Brittas and is not considered large enough to be classified as a lake.

Section 2: Identification of Potential Pressures.

The Dangerous Substances Regulations, 2001, prescribe water quality standards in respect of 14 dangerous substances in surface waters (rivers, lakes and tidal waters) as presented below. These substances include pesticides, solvents, metals and other substances. The Regulations give further effect to the EU Council Dangerous Substance Directive (76/464/EC) and give effect to certain provisions of the EU Water Framework Directive (2000/60/EC).

Standards for Dangerous Substances in Surface Freshwaters (S.I. No. 12 of 2001)

Substance	Dangerous Substance EQS ($\mu\text{g/l}$)	
	Hardness $< / = 100\text{mg/l CaCO}_3$	Hardness $> 100\text{mg/l CaCO}_3$
Arsenic	25	25
Chromium	5	30
Copper	5	30
Cyanide	10	10
Fluoride	500	500
Lead	5	10
Nickel	8	50
Zinc	(see notes**)	100
	Applicable for all Hardness Values	
Atrazine	1	
Dichloromethane	10	
Simazine	1	
Toluene	10	
Tributyltin*	0.001	
Xylene	10	

Notes: * The proposed standard for Tributyltin shall apply in relation to tidal waters only
**Values for metals are for total metal concentration (dissolved and colloidal/s.s.)
In the case of Zinc, the standard shall be –
8 $\mu\text{g/l}$ for water hardness less than or equal to 10 mg/l CaCO_3
50 $\mu\text{g/l}$ for water hardness greater than 10 mg/l CaCO_3 and less than or equal to 100 mg/lCaCO_3

These substances can enter the aquatic environment from point and diffuse sources.

IDENTIFICATION OF POTENTIAL PRESSURES

At present there are 11 No. Section 4 Licences active in the county and these are generally small discharges which do not discharge any of the substances included in the Regulations. In cases where Section 4 Licences have been issued, or reviewed since the introduction of the Dangerous Substances Measures Programme, limits for the listed substances have been included where applicable. Limits are also included for the listed substances in Section 16 Licences and licences issued under the IPC or WMA Regulations where applicable.

South Dublin County Council recognises that the Section 16 / IPPC licensed activities in its jurisdiction affect Dublin City Council's ability to comply with the Regulations. In this regard, Dublin City Council advises South Dublin County Council should any

discharges from South Dublin have the potential to impact on their ability to meet their requirements under the Regulations.

To fully identify and examine potential pressures, each potential source of pollution will be assessed individually in terms of potential point sources and potential diffuse sources.

Potential Point Sources

- **Industrial Discharges**

A preliminary assessment of all activities in South Dublin that are licenced to discharge trade or sewage effluent to surface waters, groundwaters and sewerage systems was carried out prior to the Measures Report 2002 in order to identify potential point sources of dangerous substances. This assessment included activities licensed under the Local Government (Water Pollution) Act 1977, as amended, and the Environmental Protection Agency Act 1992. It is intended to carry out a review of all the licenses prior to the publication of the next implementation report to identify the licensed activities having the potential to contribute dangerous substances to rivers or wastewater treatment plants. A preliminary desktop study has identified 19 licensed industrial discharges with the potential to contribute dangerous substances to waterbodies. See Table below

SourceName	Dangerous Substances
Macanulty Clear Drains	Zinc, Copper, Xylene, Toluene
Galco Steel	Lead, Zinc, Nickel
Arthurstown Landfill	Copper, Toluene
AC Tape	Lead
APW Enclosures	Cyanide, Chromium, Zinc
Oxygen2	Zinc, Copper
Irish Paper Sacks	Chromium
Microprint (Folens Publishing)	Xylenes
Lufthansa Airmotive	Lead, Cyanide, Nickel, Chromium
Medal Manufacturing Ireland (MMI)	Cyanide
Castolin Eutectic Ireland (Formerly Metal Powders International MPI)	Nickel, Chromium, Copper
PWAI	Cyanide, Nickel, Chromium
Quartz International	Lead, Zinc, Nickel, Chromium, Copper, Flouride
Serck (Partco)	Lead, Zinc, Copper
Untitube, Marksville Ltd. (Tubular Steel Products)	Cyanide
Zomax (KAO Infosystems)	Lead, Zinc, Nickel, Copper
Wyeth Medica Ireland	Cyanide
Takeda Pharma Ireland	Toluene
Rilta Environmental (t/a Sita Environmental)	Zinc, Copper, Xylene, Toluene

- **Wastewater Treatment Plants**

As stated, South Dublin has no major wastewater treatment systems in its jurisdiction, discharging all of its sewage to Ringsend WWTP which is in the Dublin City Council area. South Dublin has two main sewer arteries, namely the Dodder Valley sewer and the 9B sewer, with a number of pumping stations located at various points on the system. These pumping stations are maintained to a very high standard, are linked by scada to both HQ and the drainage depot, and monitored on a daily basis to ensure they operate satisfactorily.

- **Discharges from Farmyards and Agricultural Run-off**

Farm surveys have not been carried out in a comprehensive manner in South Dublin to date. Over the next period in the implementation reporting programme, up to the compilation of the 2008 implementation report, sub-catchments will be identified for the purposes of reporting. As most of South Dublin has been urbanised only areas in the South and West of the County are agricultural. The potential input of dangerous substances from the agricultural sector will be addressed during surveys scheduled in the coming year.

- **Water Treatment Plants**

Fluoride mainly arises from the fluoridation of public water supplies and from industrial discharges and also occurs naturally in rare instances. Regional Water Treatment Plants at Ballymore Eustace and Leixlip supply drinking water to South County Dublin however some private wells also supply small areas. SDCC monitor for Dangerous Substances incl Fluoride at 3 locations along the Liffey down stream from the Leixlip WTP, at Leixlip Bridge, Lucan Bridge and at the Hermitage.

- **Urban Stormwater Overflows And Runoff**

The current population of South Dublin County Council is approximately 247,000 and continues to grow. The western and southern extremities of the county are mostly rural with high permeability while the rest of the county is developed with low permeability and rapid run-offs. Development in the county is progressing at a rapid rate, resulting in more low permeability areas and continued addition to the surface water sewer systems. The extent of low permeability surfaces and surface water sewer network means there is little attenuation of dangerous substances and hence they rapidly end up in the rivers and streams.

- **Mining activities & Quarries**

Section 261 of the Planning & Development Act 2000 has been implemented which will allow SDCC to carry out a full examination of these activities. A list has been drawn up of all existing quarries in the county for the purposes of assessment under these regulations

Quarries identified for purposes of Section 261 of the Planning & Development Act 2000

SDQU05A /1	Murphy / Shillelagh, Aghfarrell, Brittas
SDQU05A /3	Roadstone / De Selby, Corbally Lugmore

SDQU05A /2	Roadstone / Belgard Tallaght
SDQU05A /4	Behan & Sons / Windmill Hill, Rathcoole
SDQU05A /6	Kilsaran Concrete / Ballinascorney, Brittas

SDQU05A/5	Roadstone / Ballinascorney, Bohernabreena
-----------	---

- **Illegal / legal waste facilities**

The Office of Environmental Enforcement has recently published a list of Unauthorised waste activities. The only facility mentioned in that report in South Dublin was the Council operated Green Waste facility at Esker. This is now going through the waste licensing procedure with the EPA.

There are no active landfills in the County however leachate is discharged to SDCC sewer from Arthurstown, Kill, County Kildare (by tanker) and directly from the closed landfill at Friarstown.

South Dublin has 24 waste permit facilities which range from paper recycling to land restoration activities and End-life-vehicle facilities to large transfer stations.

The EPA have licensed a further number of waste facilities in the County.

These facilities will be assessed to determine whether they present a risk in terms of the regulations.

Potential Diffuse Sources

- **Agricultural Run-off**

As stated previously, the potential input of dangerous substances from the agricultural sector will be addressed during farm survey work throughout the county.

Overall Context.

In examining the current condition of waters in the South Dublin area it can be seen that only at one of the Monitoring Stations do concentrations of any of the listed substances exceed the target values. For the purpose of clarity this station is listed below.

River	Location	Parameter	2006 Mean ($\mu\text{g/l}$)	Target ($\mu\text{g/l}$)
Dodder	Old Bawn Bridge	Copper	5.75	5

It is noticeable that three of the stations showing non-compliances show elevated levels of one of the listed substances, Copper. In the Measures Report of 2002 we listed elevated levels of Copper at each of these three stations also. The elevated Copper levels are arising at Monitoring Stations in the upland areas of South Dublin, in the Brittas River and in the upper reaches of the River Dodder. Both of these rivers rise in the Dublin / Wicklow mountains and it is therefore possible that the elevated levels of Copper represent background conditions due to local geology rather than any particular discharges into the two rivers. We have thus far been unable to determine any other significant sources of copper in these areas.

For this period we have succeeded in including monitoring for Arsenic, Dichloromethane, Toluene and Xylenes.

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

Section 3: Programme for Implementation.

Concentrations of copper above the target values have been identified at one of the selected Monitoring Stations. This data is presented in summary form in Appendix C. The sources of the elevated concentrations of Copper listed in Appendix C have not been established to date.

As described in Section 2, there do not appear, at present, to be any obvious sources of these initial elevated concentrations, particularly in the catchments in which they have been found. As described in the Introduction, this Programme is designed to be flexible; so that measures can be tailored to suit and address any specific sources for these substances should they become apparent on investigation.

In the mean time we will continue to monitor these areas, as well as the rest of the County, and investigate for any sources of any of the listed substances. The results of these investigations should become apparent and specific Measures can then be designed to ensure that all of the selected Monitoring Stations are compliant with the Regulations by the target date.

The Programme for implementation for the County as a whole and for the individual river catchments is presented in tabular form in Tables 2.1 and 2.2.

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

SECTION 4 – PROGRESS TO DATE

4.1 PLANNING CONTROL AND ENFORCEMENT MEASURES

a) Progress During Reporting Period

Licensing

All new applications for Section 4 & 16 licences under the water pollution Act 1977 and 1990 are assessed for the potential presence of Dangerous Substances in the final wastewater or trade effluent discharges. At present there are 11No. Section 4 discharge licences and 133No. Section 16 discharge licences issued in South County Dublin. Section 4 discharge licences and Section 16 discharge licences will be reviewed during this phase of the implementation programme.

The discharge of dangerous substances from these activities is regulated and controlled through the licensing process which involves a collaboration of Dublin City Council and South Dublin County Council. There are 19 licences to emit dangerous substances currently active none of which are to waters. Only one such licence has been issued since 2001 (Takeda).

b) Problems Encountered

Enforcement in the area of discharge licensing requires additional resources for it to be carried out in an effective and systematic manner. Reviews, enforcement with regard to compliance, and the compilation and regulation of unlicensed discharges with a view to licensing requires considerable resources to be put in place. SDCC has identified 400 FSEs which also require licensing (albeit many these may not be relevant in the context of Dangerous Substances), and a number of potentially unauthorised discharges have been identified recently. In addition it appears that Local Authorities will have to apply to the EPA for their own discharges under 76/464/EEC and a scoping exercise is currently being carried out by the Department in this regard.

c) Future Plans /New Directions

A review of all activities having the potential to discharge dangerous substances to surface waters, groundwaters or sewerage systems will be carried out. The level of licence compliance will be determined and appropriate recommendations will be implemented.

4.2 CONSULTATIVE AND CO-OPERATIVE MEASURES

Water Framework Directive

The Water Framework Directive was transposed into Irish law in December 2003. While responsibility for its implementation lies with the relevant public authorities, one of the key objectives is to involve stakeholders, state agencies, community groups, trade organisations, politicians and the public in general. The European Communities (Water Policy) Regulations 2003 (S.I. No. 722 of 2003) makes provisions for a River Basin District Advisory Council to provide a forum for systematic involvement of interested parties. This will be a major element in the participation of the public in the formulation of the Programmes of Measures and preparation of River Basin Management Plans.

South Dublin is situated in the Eastern River Basin Districts. It is represented on the River Basin District Advisory Council and the River Basin District Technical Council. It is also represented on the steering group set up under the project.

Environmental Enforcement Network

The Environmental Enforcement Network (EEN) was set up in 2004 to allow public bodies involved in environmental protection and regulation to work together to achieve more consistent and effective enforcement of environmental legislation.

The main bodies of the EEN are:

- EPA Office of Environmental Enforcement
- Local Authorities
- Government Departments
- Gardai and some specific Garda units including Criminal Assets Bureau

The network is overseen by a Steering Committee made up of members of the above organisations and considers the ongoing work of the network and sets the priorities for the network on a continual basis. Working groups have been created to develop guidance and procedures to deal with a number of environmental priority areas such as Enforcement Management, Water, Waste, Producer Responsibility (Waste) and South Dublin County Council is represented on these working groups.

South Dublin County Council has appointed a LAMS co-ordinator. To date, the waste and water quality sections have been updated for the calendar year 2005.

GSDSDS – Greater Dublin Strategic Drainage Study

South Dublin County Council played a major role in the adoption and implementation of the GSDSDS. Standards have been set as a result the study and the Code of Practice for Drainage which will have an impact on allowable discharge licence limits & quality of drainage infrastructure. It is intended to carry out a number of further studies in this term

of the implementation of the Dangerous Substances Regulations eg Misconnections, CCTV of drainage systems, inflow/infiltration studies, and flow metering of industry over a certain threshold.

(a) Problems Encountered

The GSDSDS has set a policy regarding new trade discharges that requires them to discharge to a domestic standard. This is very onerous on the part of industry and will be difficult to comply with thus increasing the level of enforcement required.

(b) Future Plans and New Directions

South Dublin County Council will continue to be involved in consultative and co-operative measures that will benefit the successful management of its river catchments.

4.3 MONITORING MEASURES

a) Progress During Reporting Period

A monitoring programme for the purpose of the Dangerous Substances Regulations has been established. Monitoring stations have been selected in areas where pressures are likely to be noticed.

b) Problems Encountered

Official training and certification should be provided to staff who take samples, to ensure they are taken to the proper standard and unquestionable in court.

c) Future Plans/New Directions

The South Dublin Pollution Control Section will review the Dangerous Substances monitoring programme and new sites in the monitoring programme will replace existing sites that have shown not to be at risk. Sampling and analysis of discharges from activities issued with Section 4 & 16 discharge licences and Integrated Pollution Prevention Control licences will continue to be assessed to determine the level of risk these premises may pose to the aquatic environment.

4.4 PUBLIC EDUCATION AND ADVISORY MEASURES

a) Progress During Reporting Period

South Dublin County Council's Environmental Awareness Officer continues to manage environmental awareness on a number of levels, namely, educational, through the media and targeted community and voluntary groups.

b) Problems Encountered

No problems encountered.

c) Future Plans/New Directions

South Dublin County Council will continue to be involved in public education and advisory measures.

4.5 OTHER NATIONAL AND MISCELLANEOUS MEASURES RELEVANT TO DANGEROUS SUBSTANCES

a) Progress During Reporting Period

A National Dangerous Substances Expert Group was established to assist with developing lists of priority action, candidate relevant pollutant and candidate general component substances for surface waters in Ireland and to design a substances screening monitoring programme as part of the implementation of the Water Framework Directive.

b) Problems Encountered

No problems encountered.

c) Future Plans/New Directions

South Dublin County Council will continue to support the implementation of the Water Framework Directive.

4.6 SUMMARY AND CONCLUSIONS

a) Progress During Reporting Period

- To-date, 11No. Section 4 licences and 133No. Section 16 licences under the Water Pollution Acts 1977 and 1990 have been issued in South Dublin
- 0No. Section 4 licences have been reviewed, 3No. Section 16 licences and 5 Waste Management Act licences have been reviewed since the last report.
- The listing of activities with the potential to discharge dangerous substances will be finalised during this phase.
- 136 surface water samples were analysed since the last report.
- River Basin District Projects encourage active involvement in River Basin District Advisory Councils.
- Environmental Awareness Officer continues to promote environmental awareness at a number of different levels.

b) Problems Encountered

- Need for standard sampler training.

c) Future Plans/New Directions

- Review all activities having the potential to discharge Dangerous Substances and assess compliance with relevant licence.
- Review Dangerous Substances Monitoring Programme and expand programme if necessary.
- Continue to support the Implementation of the Water Framework Directive.

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

Introduction.

This report is submitted as part of South Dublin County Council's obligations under the Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998.

This report updates the information in the 2004 Phosphorus Measures Report that South Dublin County Council submitted in 2004. Here we quantify and evaluate the effects of the measures outlined in the original report and since. Some of the measures have been changed or optimised since the original report in order to improve their effectiveness.

This fifth report submitted by South Dublin County Council on the Phosphorous Measures programme is part of an Environmental Management System that is based on principals of continual improvement and optimisation. This allows for the system to be adaptable and reactive to the ongoing situation in the county. Thus specific outdated or ineffective measures can be replaced by more suitable ones.

This report follows the format outlined in the manual 'Local Government (Water Pollution) Act, 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 GUIDANCE NOTE TO LOCAL AUTHORITIES ON PREPARATION AND SUBMISSION OF THE IMPLEMENTATION REPORTS'. The report is divided into three main sections. The first section describes the current water quality within South Dublin and will take into account the increased level of river sampling that has occurred as a result of the original Measures Report. The second section describes the implementation of the measures as described in the original Measures Report, and as modified in subsequent Implementation Reports. The final section describes the progress to date of these measures. This section will also contain any new measures required or alterations to existing measures contained in the original Measures Report or the first Implementation Report.

Consent of copyright owner required for publication

Section 1 – Water Quality in South Dublin.

Table 1.1, overleaf, shows the values at Monitoring Stations within South Dublin. For comparison, the baseline conditions and the targets to be reached by 2007 are also shown.

Since the commencement of the Phosphorus Measures Programme in South Dublin efforts have been made to guarantee that each of the designated Monitoring Stations are sampled at least once every month. The prior Implementation Report (2004) contained sampling data from the period August 2002 to July 2004. This report contains sample results from the period August 2004 to June 2006. As ever with this Programme the more sampling data available the more accurate the MRP values will be.

As is demonstrated in the individual tables for each of the Monitoring Stations, which are included in the appendices, South Dublin County Council has maintained a successful monitoring program. As increasingly be seen from the individual tables of monitoring data for each of the Monitoring Stations attached as appendices, SDCC has been successful in maintaining a regular sampling regime at each of the Stations. This regime was carried out in conjunction with the Water Pollution Section and the designated South Dublin County Council River sampler. These parallel, independent sampling regimes were maintained as it was felt this would increase the effectiveness and accuracy of the overall sampling regime.

Appendix A of this report shows a map of the County with each of the Monitoring Stations highlighted. As well as the Monitoring Stations at the five designated rivers the map also indicates the sampling locations along the Griffeen River, which we have included in our Monitoring Programme even though it is not listed as one of the required rivers by the EPA.

The Griffeen River is monitored regularly as it comprises the major tributary of the River Liffey within the South Dublin area and discharges to the River Liffey upstream of the designated Monitoring Station at Lucan Bridge.

Appendix B of this report comprises the monitoring results at the designated Monitoring Stations for the period of this Implementation Report. Summarised for each Station are the Median and Mean Reactive Phosphorus values for the given period.

Appendix C of this report indicates, in tabular form, the progress of our Phosphorus Measures Programme showing, as the first table does, the MRP values at each of the Monitoring Stations at the periods defined by the Phosphorus Regulations. The second table in this Appendix shows the same Monitoring Stations but gives the Q-Values at each of the locations.

As the results in Appendix B show there have been significant changes in the MRP values at the Monitoring Stations since the previous Implementation Report in 2004.

As can be seen in Table 1.1 all of the designated Monitoring Stations within the South Dublin administrative area currently meet their targets for MRP levels for 2007. In 13 of the fourteen Stations the MRP level has dropped to 10µg/l. In fact the levels at these stations may be lower as the sample results can only indicate levels as being below 10µg/l not the exact levels.

We see a much greater discrepancy when we examine the Q-Values at each of the Monitoring Stations. The Q-Values listed in Table 1.1 were taken from the Interim Report on National Survey of Rivers 2005 as published by the EPA and available on the EPA website (www.epa.ie).

We can identify that there is not an exact correlation between the MRP levels and the Q-Values, one reason being that the current Q-Values were measured during one period in 2005 while the MRP levels in this report are taken from sampling carried out in the period 2004 to 2006. We must also consider the nature of the catchments and river channels in the South Dublin area. In rural areas rivers and streams will be fed by smaller tributary streams running through open areas and ditches. In urban areas the rivers are largely fed by piped surface water systems. This may be one factor in the continuing difference to be seen between the MRP levels and the Q-Values.

The removal of the Wastewater Treatment Plants in Saggart and Newcastle has certainly helped to improve the water quality in the South Dublin area. The improvements to the Wastewater Treatment Plant in Leixlip may also have contributed to the reduction in phosphorus levels in the River Liffey.

South Dublin County Council will continue to implement the Monitoring Programme as detailed in this, and previous Implementation reports and will discuss with our partners in the Dublin City Council Central Laboratory the feasibility of extending the Monitoring Network to include other locations that will assist in the Council's achieving the targets set in the Regulations by the target date of 2007.

Section 2. Implementation of Measures.

The following section describes the implementation to date of the measures first described in the South Dublin County Council Phosphorus Measures Report, 1999 and augmented in the Phosphorus Measures Implementation Reports of 2000, 2002 & 2004. This section is accompanied by tables 2.1 and 2.2 as recommended in the guidelines supplied by the E.P.A.

Description of Measures.

Increase River Sampling within South Dublin.

Originally all river monitoring within South Dublin was carried out by a designated river sampler who also monitored the rivers for the other Dublin local authorities. The frequency of sampling at each of the designated monitoring stations was not adequate for the requirements of the Phosphorus Regulations so it was decided that the South Dublin County Council Water Pollution Section would augment the existing monitoring programme by taking monthly samples at each of the designated monitoring stations in addition to the existing monitoring programme.

Identify Problem Areas.

The existing published Q-values and MRP levels for the rivers of South Dublin plus the increased river sampling enabled the river catchments to be divided into acceptable and unacceptable categories. As the Phosphorus Measures Programme progresses attention can be focused on the areas where the water quality is unacceptable while also monitoring the areas with acceptable water quality for signs of deterioration.

As the sampling programme progressed it became clear that the existing monitoring stations would not suffice. Additional monitoring stations will be required to better gauge the water quality at specific areas, at county boundaries and areas where considerable phosphorus inputs originate outside our county. A description of the additional monitoring stations has already been given in the Implementation Report of 2000 and progress to date commented on in Section 1.

Examine Point Discharges in Problem Areas.

The first step to improve water quality in a problem area will be to examine all point discharge to the river in that area.

South Dublin County Council previously operated two Wastewater Treatment Plants at Saggart and Newcastle. These Plants have now been decommissioned and foul drainage from these areas connected to the main trunk sewers for treatment at the Wastewater Treatment Works at Ringsend.

During the lifetime of this programme all licences issued under Section 4 of the Local Government (Water Pollution) Acts 1977 & 1990 will be reviewed.

It was originally intended that all licenses issued under Section 16 of the Local Government (Water Pollution) Acts 1977 & 1990 would also be reviewed but this has now been modified. It was determined that as none of the Section 16 licences discharge to treatment works that discharge to rivers within our area that tightening phosphorus limits within these licences would be of no benefit to our programme. We will continue to

review Section 16 licences as our resources permit but would be unable to carry out a complete review of all licences within the timeframe of the Phosphorus Measures Programme. It was instead decided that premises licensed under Section 16 of the Local Government (Water Pollution) Acts 1977 & 1990 will be examined for misconnections in the same manner that other premises, both industrial and domestic, will be as part of the misconnections survey.

Due to changes within the staffing structure of the SDCC Water Pollution Section the Inspector previously appointed to carry out the Misconnections Survey has been reassigned to carry out the duties of the Water Pollution Inspector (who has now retired). This means that while general water pollution duties are being carried out, including sampling required as part of this Programme, specific Misconnections Surveys are not being carried out with the same frequency as before. It is hoped that, in consultation with the SDCC Drainage Maintenance Section, a Programme for investigating misconnections can be designed and implemented in the near future.

Examine Diffuse Discharges in Problem Areas.

This section refers specifically to the rural areas of the county, where monitoring results indicate elevated phosphorus levels. Action under this measure will be dependent on river monitoring results and may require the carrying out of farm surveys, the preparation of Farm Nutrient Management Plans and the carrying out of Groundwater Monitoring.

Take action under Local Government (Water Pollution) Acts 1977 & 1990.

Where specific sources of pollution are found, whether from point discharges or diffuse discharges, those responsible will be instructed to take action. This may refer to agricultural activities, industrial discharge or even domestic misconnections. When action is not forthcoming the Water Pollution Section of South Dublin County Council will recommend action by the Council under the Local Government (Water Pollution) Acts 1977 & 1990 either in the form of direct prosecutions or the serving of notices under Section 12 of the Act.

ByeLaws.

Where necessary this Section will recommend the adoption of Bye-laws specifically aimed at reducing the phosphorus loading to rivers within South Dublin.

Examination of Tributaries.

The original Phosphorus Measures Report for South Dublin County Council is based around five rivers. As our monitoring increases and as we focus our attention on specific areas of the county it will become necessary to extend the monitoring programme, and by extension the Phosphorus Measures Programme itself, to tributaries of these five rivers. The main tributary under consideration will undoubtedly be the Griffeen River, which

drains much of the west of the county and discharges to the River Liffey in Lucan village, upstream of the Monitoring station at Lucan Bridge.

Public Information.

A public information programme is required as part of our Phosphorus Measures Programme. As part of the misconnections survey the public are being informed of the importance of separation of foul and surface waters if our rivers are to be maintained in a clean and healthy state. Part of this information programme will be a website which is under development by South Dublin County Council.

Consultation with Concerned Groups.

Copies of the original Phosphorus Measures Report of South Dublin County Council have already been sent to the other Dublin local authorities with which we share river catchments.

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

TABLE 1.1: RIVER WATER QUALITY STANDARDS TO BE ACHIEVED BY 2007

Local Authority Name	S.D.C.C.	Implementation Report Year															
		2006															
River Name	River Code	Biological Monitoring Station	Station Location Name	Grid Reference	Baseline Q-value	Baseline MRP Value ug/l P	Is Baseline Quality Satisfactory? Yes/No	Current Q-Value	Current MRP Value ug/l P	Standard to be Achieved by 2007 Q Value	Standard to be Achieved by 2007 MRP Value	Has Either Standard Been Achieved?	Does an Article 3(9) Extension Apply?	If Yes, What is the revised compliance date	Where Quality is Unsatisfactory What is the Principal Source of Pollution	If there is an identifiable source, please enter details	
Brittas	09/B/02	#0100	Bridge NE of Talbotstown House	O 056 212	Q4	30	Yes	Q3-Q4	10	Q4	30	Yes	No				
		#0300	Bridge NNE of Moanaspick	O 031 207	Q4	30	Yes	Q4-Q5	10	Q4	30	Yes	No				
Camac	09/C/02	#0100	Bridge U/S of Saggart	O 034 261	Q4	30	Yes	Q3/0	10	Q4	30	Yes	No				
		#0200	Bridge N of Brownsbarn	O 049 293	Q2	70	No		20	Q3	50	Yes	No				
		#0310	Riversdale Estate	O 073 318	Q2-Q3	70	No	Q3	30	Q3	50	Yes	No				
Dodder	09/D/01	#0010	1.3km U/S of Reservoir	O 109 203	Q4	30	Yes	Q4	10	Q4	30	Yes	No				
		#0100	U/S of Piperstown Stream	O 088 242	Q4-Q5	20	Yes	Q4-Q5	10	Q4-Q5	20	Yes	No				
		#0300	Old Bawn Bridge	O 098 263	Q4-Q5	20	Yes	Q3-Q4	10	Q4-Q5	20	Yes	No				
		#0420	New Bridge, Firhouse	O 114 277	Q4	30	Yes		10	Q4	30	Yes	No				
		#0620	Bridge, Springfield Avenue	O 136 289	Q3	50	No	Q3	10	Q3-Q4	30	Yes	No				
Liffey	09/L/01	#2100	Lucan Bridge	O 035 355	Q2-Q3	70	No	Q3	60	Q3	50	No	No				
Owendoher	09/O/01	#1100	Bridge SW of Delamaine Cottage	O 135 247	Q4-Q5	20	Yes	Q4-Q5	10	Q4-Q5	20	Yes	No				
		#1300	Scholarstown Road Bridge	O 136 269	Q4-Q5	20	Yes	Q3/0	10	Q4-Q5	20	Yes	No				
		#1700	Bridge U/S of Dodder Confl.	O 141 290	Q4-Q5	20	Yes	Q3	20	Q4-Q5	20	Yes	No				

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

SECTION H: DECLARATION

Declaration

I hereby make application for a waste water discharge licence/revised licence, pursuant to the provisions of the Waste Water Discharge (Authorisation) Regulations, 2007 (S.I. No. 684 of 2007).

I certify that the information given in this application is truthful, accurate and complete.

I give consent to the EPA to copy this application for its own use and to make it available for inspection and copying by the public, both in the form of paper files available for inspection at EPA and local authority offices, and via the EPA's website.

This consent relates to this application itself and to any further information or submission, whether provided by me as Applicant, any person acting on the Applicant's behalf, or any other person.

Signed by : Stephen Deegan **Date :** 11/12/07
(on behalf of the organisation)

Print signature name: STEPHEN DEEGAN

Position in organisation: SENIOR EXECUTIVE ENGINEER

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

SECTION I: Joint DECLARATION

Joint Declaration ^{Note1}

I hereby make application for a waste water discharge licence/revised licence, pursuant to the provisions of the Waste Water Discharge (Authorisation) Regulations, 2007 (S.I. No. 684 of 2007).

I certify that the information given in this application is truthful, accurate and complete.

I give consent to the EPA to copy this application for its own use and to make it available for inspection and copying by the public, both in the form of paper files available for inspection at EPA and local authority offices, and via the EPA's website.

This consent relates to this application itself and to any further information or submission whether provided by me as Applicant, any person acting on the Applicant's behalf, or any other person.

Lead Authority

Signed by : _____ **Date :** _____
(on behalf of the organisation)

Print signature name: _____

Position in organisation: _____

Co-Applicants

Signed by : Stephen Deegan **Date :** 11/12/07
(on behalf of the organisation)

Print signature name: STEPHEN DEEGAN

Position in organisation: Senior Executive Engineer, Drainage Maintenance and Operations, South Dublin County Council

Signed by : _____ **Date :** _____
(on behalf of the organisation)

Print signature name: _____

Position in organisation: _____

Note 1: In the case of an application being lodged on behalf of more than a single water services authority the following declaration must be signed by all applicants.