REFERENCE

2425059

RELEASE DATE

May 2024

SUBJECT

Wastewater Spills

REQUESTS & RESPONSES

1. *How much sewage is spilled in each council area or constituency area?*

Council Area	Total Predicted Spill Volume / Year (m^3)
Antrim and Newtownabbey	1058862
Armagh Banbridge and Craigavon	602410
Belfast	6791953
Causeway Coast and Glens	1361012
Derry and Strabane	1726514
Fermanagh and Omagh	293659
Lisburn and Castlereagh	305684
Mid and East Antrim	596537
Mid Ulster	869957
Newry Mourne and Down	1308410
North Down and Ards	2358996

Constituency	Total Predicted Spill Volume / Year (m^3)
Belfast east	1165015
Belfast north	3236908
Belfast south	1906736
Belfast west	952729
East Antrim	432933
East Londonderry	1311259
Fermanagh and South Tyrone	406583
Foyle	1513042

Lagan Valley	315747
Mid Ulster	708980
Newry and Armagh	709821
North Antrim	318178
North Down	2051550
South Antrim	564753
South Down	674632
Strangford	710056
Upper Bann	33547
West Tyrone	261525

Please consider and use this information in the context in which it is disclosed i.e. predictive wastewater spill data which relies on assumptions which mean that it will not be 100% correct.

2. *What are the locations of the top 50 pipes which release the most sewage annually into NI waterways? For each, can you state: -*
    a. *the frequency of spills.*
    b. *the estimated volume spilled annually.*
    c. *what specific waterway it spills into identifying it on the storm overflow web page/map?*

    Annex B attached refers.

3. *Can you detail how much is spilled into the River Foyle in Derry from pipes in and around the Peace Bridge. I counted at least 16 pipes in the vicinity, maybe more within miles.*

Regulation 6(1)(b) of the EIR states that "*Where an applicant requests that the information be made available in a particular form or format, a public authority shall make it so available, unless the information is already publicly available and easily accessible in another form or format.*"

Total predicted wastewater spills into the River Foyle in Derry from pipes in and around the Peace Bridge (as derived from hydraulic, modelled data), can be obtained by zooming into NI Water's Storm Overflow map**,** obtaining the alphanumerical CARIDs (beginning SP), from the relevant assets and looking these up in NI Water's Modelled Spills Spreadsheet.

4. *How much is released annually into the River Foyle in total?*

   Based on current, best available information held on NI Water's corporate system (as derived from our simulated, hydraulic drainage modelling), it is predicted that approximately 1638853 m^3 of wastewater is released annually into the River Foyle.

5. *How much is released annually from pipes within 10 miles of Castlerock and Portstewart and Portrush beaches?*

   Based on current, best available information held on NI Water's corporate system (as derived from our simulated, hydraulic drainage modelling), it is predicted that approximately 1348413 m^3 of wastewater is released annually from pipes within 10 miles of Castlerock and Portstewart and Portrush beaches.

6. *How much is released annually from pipes in Coleraine into the River Bann?*

   Based on current, best available information held on NI Water's corporate system (as derived from our simulated, hydraulic drainage modelling), it is predicted that approximately 1094695 m^3 of wastewater is released annually from pipes in Coleraine into the River Bann.

7. *What is the most up to date estimate for what is released into Lough Neagh on an annual basis?*

   Based on current, best available information held on NI Water's corporate system (as derived from our simulated, hydraulic drainage modelling), it is predicted that approximately 12748 m^3 of wastewater is released into Lough Neagh Local Management Area on an annual basis.

Annex B

CARID	Name	Predicted Spill Frequency per Year	Predicted Spill Volume per Year (m3)	X	Y	Coordinate Description	Water Body Name	Council Area	Constituency
CO004357318	Belfast FFT CSO	36	1593239	335007	377003	Asset Coordinates	Undetermined	Belfast	BELFAST NORTH
CO004557998	Kinnegar FFT CSO	80	1182426	338657	378277	Asset Coordinates	Undetermined	North Down and Ards	NORTH DOWN
SP002022339	Sydenham Park Avenue TPS	71	691956	336540	374853	Discharge Coordinates	Belfast Harbour	Belfast	BELFAST EAST
SP002022943	Riversdale WwPS	82	633615	284733	433007	Discharge Coordinates	Bann Estuary	Causeway Coast and Glens	EAST LONDONDERRY
SP002984327	Belfast Tunnel TPS	12	599134	335250	376774	Discharge Coordinates	Lagan	Belfast	BELFAST NORTH
CO004430866	Armagh Drumcarn FFT CSO	84	413838	287490	347184	Discharge Coordinates	Callan River (Derryscollop)	Armagh Banbridge and Craigavon	NEWRY AND ARMAGH
CO002853056	Upper Falls Boucher CSO	136	330315	331475	371491	Discharge Coordinates	Blackstaff (Belfast) River	Belfast	BELFAST SOUTH
CO000984507	Riverdale Park South CSO	91	318650	330350	371050	Discharge Coordinates	Blackstaff (Belfast) River	Belfast	BELFAST WEST
SP002021944	Pennyburn WwPS	141	317193	244421	418614	Discharge Coordinates	Upper Foyle	Derry and Strabane	FOYLE
SP002023022	Ballycairn Coleraine North Coast TPS	176	306763	284566	433538	Discharge Coordinates	Lower Bann	Causeway Coast and Glens	EAST LONDONDERRY
CO002849756	Fane Street CSO	124	298824	332551	372823	Discharge Coordinates	Blackstaff (Belfast) River	Belfast	BELFAST SOUTH
CO004357006	Seahill FFT CSO	99	279313	344171	382341	Asset Coordinates	Undetermined	North Down and Ards	NORTH DOWN
CO002815843	Ballyclare FFT CSO	87	276383	328218	390146	Discharge Coordinates	Six Mile Water (Ballyclare)	Antrim and Newtownabbey	SOUTH ANTRIM
CO000984500	Falls Road Rockmount CSO	101	258903	331401	373246	Discharge Coordinates	Blackstaff (Belfast) River	Belfast	BELFAST WEST
CO004357218	Enniskillen FFT CSO	83	230566	221776	345544	Asset Coordinates	Undetermined	Fermanagh and Omagh	FERMANAGH AND SOUTH TYRONE
CO000984630	Town CSO	140	218563	336894	352237	Discharge Coordinates	Ballynahinch River	Newry Mourne and Down	STRANGFORD

CO000984377	Fortwilliam Park Dunlambert CSO	101	214916	334048	377738	Discharge Coordinates	Lagan	Belfast	BELFAST NORTH
CO003121871	Alfred Street Florence CSO	147	209444	243999	416732	Discharge Coordinates	Burn Dennet and Foyle	Derry and Strabane	FOYLE
SP003082779	Duke Street 2 WwPS	143	202323	243842	416063	Discharge Coordinates	Burn Dennet and Foyle	Derry and Strabane	FOYLE
SP002022372	Newpoint Greenbank TPS	45	189202	308740	325476	Discharge Coordinates	Carlingford and Newry	Newry Mourne and Down	NEWRY AND ARMAGH
CO004357115	Annsborough FFT CSO	165	186313	335509	336731	Asset Coordinates	Undetermined	Newry Mourne and Down	SOUTH DOWN
CO004356788	Maghera Londonderry FA CSO	194	185336	285479	399796	Asset Coordinates	Undetermined	Mid Ulster	MID ULSTER
CO000984459	Moonstone Street CSO	108	169732	332014	371458	Discharge Coordinates	Blackstaff (Belfast) River	Belfast	BELFAST SOUTH
CO000984460	Lisburn Road Cranmore CSO	108	169573	332014	371458	Discharge Coordinates	Blackstaff (Belfast) River	Belfast	BELFAST SOUTH
CO003301249	Clarendon Terrace CSO	153	167315	243529	417256	Discharge Coordinates	Burn Dennet and Foyle	Derry and Strabane	FOYLE
CO003102075	Alexander Loop CSO	35	160125	336184	372408	Discharge Coordinates	Connswater	Belfast	BELFAST SOUTH
SP003067664	Huguenot Drive 2 WwPS	85	156911	328008	364705	Discharge Coordinates	River Lagan (Stranmillis)	Lisburn and Castlereagh	LAGAN VALLEY
CO000984514	Springfield Road Workman CSO	76	143390	331387	374539	Discharge Coordinates	Blackstaff (Belfast) River	Belfast	BELFAST WEST
CO000984373	Shore Road Fortwilliam CSO	132	140676	334316	377581	Discharge Coordinates	Lagan	Belfast	BELFAST NORTH
CO004357108	Strabane FFT CSO	63	121988	234222	399039	Asset Coordinates	Undetermined	Derry and Strabane	WEST TYRONE
CO002914133	Mill Road Newtownabbey CSO	54	119945	334535	380182	Discharge Coordinates	Belfast Lough	Antrim and Newtownabbey	BELFAST NORTH
SP002022881	Derrynoyd WwPS	185	119668	276902	395412	Discharge Coordinates	Moyola River (Straw)	Mid Ulster	MID ULSTER
CO000984467	Balmoral Avenue CSO	81	117837	331296	370854	Discharge Coordinates	Blackstaff (Belfast) River	Belfast	BELFAST SOUTH
CO004356982	Whitehouse FFT CSO	64	114106	334587	379991	Asset Coordinates	Undetermined	Antrim and Newtownabbey	BELFAST NORTH
CO000984722	Pound Road CSO	165	107694	290796	391132	Discharge Coordinates	Magherafelt Burn	Mid Ulster	MID ULSTER

CO004356740	Whitehouse FA CSO	3	104106	334586	379990	Asset Coordinates	Undetermined	Antrim and Newtownabbey	BELFAST NORTH
SP002022687	Spencestown TPS	124	102675	310160	402200	Discharge Coordinates	Braid River (Ballymena)	Mid and East Antrim	NORTH ANTRIM
CO004395298	Ballyclare FA CSO	54	102315	328287	390089	Asset Coordinates	Undetermined	Antrim and Newtownabbey	SOUTH ANTRIM
CO004177390	Rooney Park Kilkeel CSO	221	101804	331111	314354	Discharge Coordinates	South Down	Newry Mourne and Down	SOUTH DOWN
CO004357003	Ballynahinch FFT CSO	90	101466	337473	351822	Asset Coordinates	Undetermined	Newry Mourne and Down	STRANGFORD
SP002021819	Coolhill North WwPS	65	90258	281603	361691	Discharge Coordinates	River Rhone (Dungannon)	Mid Ulster	FERMANAGH AND SOUTH TYRONE
CO000984647	Glenabbey Crescent CSO	63	87969	335261	383074	Discharge Coordinates	Three Mile Water	Antrim and Newtownabbey	EAST ANTRIM
SP002022349	Greencastle Belfast WwPS	39	84278	334247	378377	Discharge Coordinates	Lagan	Belfast	BELFAST NORTH
CO003309010	Seahill Road Holywood CSO	126	79510	344329	381780	Discharge Coordinates	Belfast Lough	North Down and Ards	NORTH DOWN
CO000984379	North Queen Street Cultra CSO	41	75710	334421	375916	Discharge Coordinates	Lagan	Belfast	BELFAST NORTH
CO004357077	Maghera Londonderry FFT CSO	118	74736	285480	399797	Asset Coordinates	Undetermined	Mid Ulster	MID ULSTER
CO004357309	Larne FFT CSO	29	73791	340620	402213	Asset Coordinates	Undetermined	Mid and East Antrim	EAST ANTRIM
CO000984320	Gilnahirk Road CSO	75	73358	338780	373355	Discharge Coordinates	Connswater	Belfast	BELFAST EAST
CO000984325	Sanddown Road Kingsleigh CSO	117	73311	338246	373460	Discharge Coordinates	Connswater	Belfast	BELFAST EAST
CO000984210	Sharman CSO	102	73073	333837	371560	Discharge Coordinates	Lagan	Belfast	BELFAST SOUTH

LIMITATIONS OF USE:

The information comprises modelled estimates of spills from the storm overflows across Northern Ireland that reside in the NI Water Corporate Asset Register (CAR). Modelling covers the most densely populated areas where the highest volume of spills is likely to occur. Work is ongoing to complete modelling across less densely populated areas of Northern Ireland. This data excludes the continuous release of treated, recycled final effluent from our wastewater treatment works as we do not classify this as a discharge or spill. The results of the models consider performance in an average year and not performance in one specific year for comparison against another year. Spill performance during years when Northern Ireland experiences abnormally low or high rainfall is not represented in the models. This spreadsheet includes those locations and associated data for storm overflows where the model is predicting no spills in an average rain fall year. The models and hence these results do not take account of operational conditions in the actual network such as blockages that may in practice be causing spills that are not reflected in the modelled outputs. The annual spill frequency reported from the models is counted using the industry standard 12/24 block counting method.

IMPORTANT - PLEASE READ:

NI Water's Corporate Asset Register (CAR), comprised of GIS and Ellipse data, is known to be incomplete due to the time delay between the construction of assets and the Asset Information Maintenance Team receiving/digitising "as constructed" records. This could result in data being omitted from any outputs. The accuracy of the coordinates and attributes of the CAR data rely upon validity of the records received and the precision of the digitiser.

The data for these analyses has been extracted from the live CAR database which is continuously updated and validated. The data and outputs of any analysis performed should be regarded as indicative only at the time of the data request. The NI Water asset base changes on a daily basis and therefore the information supplied can quickly become out-dated; therefore you should ensure that the results of this analyses are "fit for purpose". Regular updates may be necessary in certain circumstances particularly if your proposed work lasts more than 3 months.