

GRO Surrogate %	105	108	110	107	107	107	107	107	103									
m,p-Xylene	<8	<8	<8	<8	<8	<8	<8	<8	<8		µg/l	413000/432000	500				30	
Methyl tertiary butyl ether (MTBE)	<3	<3	<3	<3	<3	<3	<3	<3	<3		µg/l	33800000						
o-Xylene	<3	<3	<3	<3	<3	<3	<3	<3	<3		µg/l	503000	500				30	
Sum of detected BTEX	<28	<28	<28	<28	<28	<28	<28	<28	<28									
Sum of detected Xylenes	<11	<11	<11	<11	<11	<11	<11	<11	<11		µg/l		500					
Toluene	<4	<4	<4	<4	<4	<4	<4	<4	<4		µg/l	9090000	700				74	
Total Aliphatics & Aromatics >C5-35 (aq)	<10	<10	205	<10	<10	<10	<10	<10	<10									
Total Aliphatics >C12-C35 (aq)	<10	<10	205	<10	<10	<10	<10	<10	<10									
Total Aromatics >EC12-5005 (aq)	<10	<10	<10	<10	<10	<10	<10	<10	<10									
Acenaphthene (aq)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015		µg/l	no wsv						
Acenaphthylene (aq)	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011		µg/l							
Anthracene (aq)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015		µg/l	no wsv					0.1	0.1
Benzo(a)anthracene (aq)	<0.017	<0.017	0.0596	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	0.0596	µg/l	no wsv						
Benzo(a)pyrene (aq)	<0.009	<0.009	0.126	0.0217	0.0426	<0.009	<0.009	<0.009	<0.009	0.126	µg/l	no wsv	0.7			0.01	0.00017	
Benzo(b)fluoranthene (aq)	<0.023	<0.023	0.0818	<0.023	0.0352	<0.023	<0.023	<0.023	<0.023	0.0818	µg/l	no wsv		*	*			
Benzo(g,h,i)perylene (aq)	<0.016	<0.016	0.0888	<0.016	0.033	<0.016	<0.016	<0.016	<0.016	0.0888	µg/l	no wsv		*	*			
Benzo(k)fluoranthene (aq)	<0.027	<0.027	0.0898	<0.027	0.0319	<0.027	<0.027	<0.027	<0.027	0.0898	µg/l	no wsv		*	*			
Chrysene (aq)	<0.013	<0.013	0.1	0.0187	0.0316	<0.013	<0.013	<0.013	<0.013	0.1	µg/l	no wsv						
Dibenzo(a,h)anthracene (aq)	<0.016	<0.016	0.0172	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	0.0172	µg/l	no wsv						
Fluoranthene (aq)	<0.017	<0.017	0.141	0.0217	0.0491	<0.017	<0.017	<0.017	<0.017	0.141	µg/l	no wsv					0.0063	1
Fluorene (aq)	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014		µg/l	no wsv						
Indeno(1,2,3-cd)pyrene (aq)	<0.014	<0.014	0.0443	<0.014	0.0274	<0.014	<0.014	<0.014	<0.014		µg/l	no wsv		*	*			
Naphthalene (aq)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.158	<0.1	<0.1		µg/l	99800					2	130
PAH, Total Detected USEPA 16 (aq)	<0.247	<0.247	0.968	<0.247	0.326	<0.247	<0.247	<0.247	<0.247									
Phenanthrene (aq)	<0.022	<0.022	0.0554	<0.022	0.0283	<0.022	<0.022	<0.022	<0.022		µg/l							
Pyrene (aq)	<0.015	<0.015	0.163	0.0448	0.0463	<0.015	<0.015	<0.015	<0.015		µg/l	no wsv						
PCB congener 101	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015		µg/l						0.1	
PCB congener 118	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015		µg/l						0.1	
PCB congener 138	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015		µg/l						0.1	
PCB congener 153	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015		µg/l						0.1	
PCB congener 180	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015		µg/l						0.1	
PCB congener 28	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015		µg/l						0.1	
PCB congener 52	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015		µg/l						0.1	
Sum of detected EC7 PCB's	<0.105	<0.105	<0.105	<0.105	<0.105	<0.105	<0.105	<0.105	<0.105		µg/l						0.1	
1,2,4-Trichlorobenzene (aq)	<1	<1	<1	<1	<1	<1	<1	<1	<1									
1,2-Dichlorobenzene (aq)	<1	<1	<1	<1	<1	<1	<1	<1	<1		µg/l		1000					
1,3-Dichlorobenzene (aq)	<1	<1	<1	<1	<1	<1	<1	<1	<1									
1,4-Dichlorobenzene (aq)	<1	<1	<1	<1	<1	<1	<1	<1	<1		µg/l		300					
2,4,5-Trichlorophenol (aq)	<1	<1	<1	<1	<1	<1	<1	<1	<1									
2,4,6-Trichlorophenol (aq)	<1	<1	<1	<1	<1	<1	<1	<1	<1		µg/l		200					
2,4-Dichlorophenol (aq)	<1	<1	<1	<1	<1	<1	<1	<1	<1		µg/l						4.2	140
2,4-Dimethylphenol (aq)	<1	<1	<1	<1	<1	<1	<1	<1	<1		µg/l	30900000						
2,4-Dinitrotoluene (aq)	<1	<1	<1	<1	<1	<1	<1	<1	<1		µg/l	no wsv						
2,6-Dinitrotoluene (aq)	<1	<1	<1	<1	<1	<1	<1	<1	<1		µg/l	no wsv						
2-Chloronaphthalene (aq)	<1	<1	<1	<1	<1	<1	<1	<1	<1		µg/l	62700						
2-Chlorophenol (aq)	<1	<1	<1	<1	<1	<1	<1	<1	<1		µg/l		30				50	

2-Methylnaphthalene (aq)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l							
2-Methylphenol (aq)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l							
2-Nitroaniline (aq)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l							
2-Nitrophenol (aq)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l							
3-Nitroaniline (aq)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l							
4-Bromophenylphenylether	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l							
4-Chloro-3-methylphenol	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l						40	
4-Chloroaniline (aq)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l							
4-Chlorophenylphenylether	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l							
4-Methylphenol (aq)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l							
4-Nitroaniline (aq)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l							
4-Nitrophenol (aq)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l							
Azobenzene (aq)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l							
bis(2-Chloroethoxy)methane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l							
bis(2-Chloroethyl)ether (aq)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l							
bis(2-Ethylhexyl) phthalate	<2	2.14	<2	<2	<2	<2	<2	<2	<2	<2	µg/l	no wsv	8				1.3	
Butylbenzyl phthalate (aq)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l						7.5	51
Carbazole (aq)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l							
Dibenzofuran (aq)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l							
Diethyl phthalate (aq)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	no wsv					200	1000
Dimethyl phthalate (aq)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l						800	4000
Hexachlorobenzene (aq)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l		0.05					0.05
Hexachlorobutadiene (aq)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l		0.6					0.6
Hexachlorocyclopentadiene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l							
Hexachloroethane (aq)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	<50000						
Indeno(1,2,3-cd)pyrene (aq)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l							
Isophorone (aq)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l							
n-Dibutyl phthalate (aq)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	no wsv					8	40
n-Dioctyl phthalate (aq)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	µg/l	no wsv					20	40
Nitrobenzene (aq)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l							
n-Nitroso-n-dipropylamine	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l							
Pentachlorophenol (aq)	<1	<1	<10	<1	<1	<1	<1	<1	<1	<10	µg/l		9				0.4	1
Phenol (aq)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	269000000						
1,1,1,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	96700						
1,1,1-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	1270000					100	
1,1,2,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	650000						
1,1,2-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	208000					400	
1,1-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	1110000						
1,1-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	65600						
1,1-Dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l							
1,2,3-Trichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l							
1,2,3-Trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l							
1,2,4-Trichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l							
1,2,4-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	9830						
1,2-Dibromo-3- chloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l		1					
1,2-Dibromoethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l		0.4					
1,2-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l		1000					
1,2-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	3540	30			3	10	

1,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	11100	40					
1,3,5-Trichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l							
1,3,5-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l							
1,3-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l							
1,3-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l		20					
1,4-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l		300					
2,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l							
2-Chlorotoluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l							
4-Bromofluorobenzene**	94.3	95.7	95.8	94.5	95.3	93.5	94.5	94.7	96.2	%							
4-Chlorotoluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l							
4-iso-Propyltoluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l							
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	8460	10		1	10	50	
Bromobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	87700						
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l							
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	6820	60					
Bromoform	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	1770000	100					
Bromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l							
Carbon disulphide	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l							
Carbontetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	3310	4			12		
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	1300000						
Chloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l							
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	369000	300				2.5	
Chloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	5500						
cis-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	54600						
cis-1,3-Dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l							
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	38700	100					
Dibromofluoromethane**	113	113	113	113	115	111	114	112	110	%							
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l							
Dichlorodifluoromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l							
Dichloromethane	<3	<3	<3	<3	<3	<3	<3	<3	<3	µg/l	1500000	20			20		
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	1250000	300					
Hexachlorobutadiene	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l		0.6				0.6	
Isopropylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	38900						
m,p-Xylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	413000/432000	500			30		
Methyl tertiary butyl ether (MTBE)	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	33800000						
Naphthalene	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	99800				2	130	
n-Butylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l							
o-Xylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	503000	500			30		
Propylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	1100000						
sec-Butylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l							
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	3530000	20			50	500	
tert-Amyl methyl ether (TAME)	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l							
tert-Butylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l							
Tetrachloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	174000	40	10	10			
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	9090000	700			74	380	
Toluene-d8**	99.4	99.7	99.4	98.4	99.4	97.9	99.7	99.4	98.7	%							
trans-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l	65700						
trans-1,3-Dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l							
Trichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l		20	10	10	10		
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/l							

Vinyl Chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1		µg/l	249	0.3	0.5	0.5			
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Sources of Information / Notes

UK DWS - The Water Supply (Water Quality) Regulations 2018.

DEFRA: Proposed Aquatic Environmental Quality Standards.

WHO Guidelines for Drinking Water Quality. Fourth edition (2017)

WHO Petroleum Products in Drinking Water 2008

*Limit within Private Water Supply Regs NI 2017 is 0.1µg/l for sum of 4 specified compounds

** - There are no WHO guideline values for aliphatic fractions C16 - C21 and C21-35, therefore the guideline values of C8-C1

Sample Date 15/01/13