

Bilaga 4. Resultat vattenkemi på 14 provtagningslokaler i Stora åns och Balltorpsbäckens avrinningsområden

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Gul markering - Överskrider ALS rapporteringsvärde

Röd markering - Överskrider Göteborgs Stads och/eller Mölndals Stads generella gränsvärden

Provpunkt	Gränsvärde Göteborg / Mölndal	1 Krokegården	2 Dagvatten Järnbrotts-motet	3 Dagvatten Sisjövägen	4 Nedre utlopp sisjön	5 Övre utlopp Sisjön
As, arsenik (µg/L)	16 / 15	0,558	<0.5	<0.5	<0.5	<0.5
Cd, kadmium (µg/L)	0,9 / 0,4	<0.05	<0.05	<0.05	<0.05	<0.05
Co, kobolt (µg/L)		0,547	0,529	<0.2	<0.2	<0.2
Cr, krom (µg/L)	7 / 15	0,923	1,5	<0.9	<0.9	<0.9
Cu, koppar (µg/L)	10 / 10	6,54	7,8	5,11	2,09	2,1
Mo, molybden (µg/L)		1,58	1,88	0,899	<0.5	0,56
Ni, nickel (µg/L)	68 / 40	3,08	1,31	0,928	1,2	<0.6
Pb, bly (µg/L)	28 / 14	1,04	0,768	<0.5	<0.5	<0.5
V, vanadin (µg/L)		1,66	1,19	0,442	0,674	0,276
Zn, zink (µg/L)	30 / 30	20,8	19,6	9,24	4,54	6,38
Hg, kvicksilver (µg/L)	0,07 / 0,05	<0.02	<0.02	<0.02	<0.02	<0.02
P, fosfor (µg/L)	50 /	84,8	81,2	31,5	13	<10
alifater >C8-C10 (µg/L)		<10	<10	<10	<10	<10
alifater >C10-C12 (µg/L)		<10	<10	<10	<10	<10
alifater >C12-C16 (µg/L)		<10	<10	<10	<10	<10
alifater >C16-C35 (µg/L)		<20	<20	<20	<20	<20
aromater >C8-C10 (µg/L)		<1.0	<1.0	<1.0	<1.0	<1.0
aromater >C10-C16 (µg/L)		<1.0	<1.0	<1.0	<1.0	<1.0
metylpyrener/metylfluorantener (µg/L)		<1.0	<1.0	<1.0	<1.0	<1.0
metylkryserer/metylbens(a)antracener (µg/L)		<1.0	<1.0	<1.0	<1.0	<1.0
aromater >C16-C35 (µg/L)		<1.0	<1.0	<1.0	<1.0	<1.0
naftalen (µg/L)		<0.030	<0.030	<0.030	<0.030	<0.030
acenaftylen (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
acenaften (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
fluoren (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
fenantren (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
antracen (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010

Provpunkt		1	2	3	4	5
Ämne	Gränsvärde Göteborg / Mölndal	Krokegården	Dagvatten Järnbrotts-motet	Dagvatten Sisjövägen	Nedre utlopp sisjön	Övre utlopp Sisjön
fluoranten (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
pyren (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
bens(a)antracen (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
krysen (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
bens(b)fluoranten (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
bens(k)fluoranten (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
bens(a)pyren (µg/L)	0,27 / 0,05	<0.010	<0.010	<0.010	<0.010	<0.010
dibens(a,h)antracen (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
bens(g,h,i)perylen (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
indeno(1,2,3,cd)pyren (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
summa PAH 16 (µg/L)		<0.180	<0.180	<0.180	<0.180	<0.180
summa cancerogena PAH (µg/L)		<0.035	<0.035	<0.035	<0.035	<0.035
summa övriga PAH (µg/L)		<0.055	<0.055	<0.055	<0.055	<0.055
summa PAH L (µg/L)		<0.025	<0.025	<0.025	<0.025	<0.025
summa PAH M (µg/L)		<0.025	<0.025	<0.025	<0.025	<0.025
summa PAH H (µg/L)		<0.040	<0.040	<0.040	<0.040	<0.040
oljeindex >C10-<C40 (µg/L)	1000 / 1000	<50.0	<50.0	<50.0	<50.0	<50.0
fraktion C10 - C12 (µg/L)		<5.0	<5.0	<5.0	<5.0	<5.0
fraktion C12 - C16 (µg/L)		<5.0	<5.0	<5.0	<5.0	<5.0
fraktion C16 - C35 (µg/L)		<30.0	<30.0	<30.0	<30.0	<30.0
fraktion C35 - C40 (µg/L)		<10.0	<10.0	<10.0	<10.0	<10.0
nitratkväve, NO3-N (mg/L)		0,7	0,65	1,7	0,41	0,54
nitritkväve, NO2-N (mg/L)		0,011	0,0042	0,0022	0,0006	0,0038
ammoniak- + ammoniumkväve (mg/L)		0,042	0,06	<0.0030	0,0053	0,012
totalkväve (mg/L)	1,25 / 1,25	1,5	1,3	2	0,84	0,93
fosfatfosfor, PO4-P (mg/L)		0,054	0,07	0,034	0,0023	<0.0010
totalfosfor (mg/L)	0,05 / 0,05	0,088	0,075	0,034	0,015	0,007
perfluorbutansyra (PFBA) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
perfluoropentansyra (PFPeA) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
perfluorhexansyra (PFHxA) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
perfluoroheptansyra (PFHpA) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
perfluoroktansyra (PFOA) (µg/L)		0,0097	0,0115	<0.0050	<0.0050	<0.0050
perfluorononansyra (PFNA) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
perfluorodekansyra (PFDA) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
perfluorbutansulfonsyra (PFBS) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
perfluorhexansulfonsyra (PFHxS) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
perfluoroktansulfonsyra (PFOS) (µg/L)		0,0175	0,0082	<0.0050	<0.0050	<0.0050
6:2 FTS fluortelomersulfonat (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
summa PFAS 11 (µg/L)		0,027	0,02	<0.050	<0.050	<0.050
perfluorundekansyra (PFUnDA) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
perfluorododekansyra (PFDoDA) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
PFTTrDA perfluortridekansyra (µg/L)		<0.025	<0.025	<0.025	<0.025	<0.025
PFPeS perfluoropentansulfonsyra (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010

Provpunkt		1	2	3	4	5
Ämne	Gränsvärde					
	Göteborg / Mölndal	Krokegården	Dagvatten Järnbrotts-motet	Dagvatten Sisjövägen	Nedre utlopp sisjön	Övre utlopp Sisjön
perfluoroheptansulfonsyra (PFHpS) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
PFNS perfluoronansulfonsyra (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
perfluorodekan sulfonsyra (PFDS) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
perfluorundekansulfonsyra (PFUnDS) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
PFDoDS perfluordodekansulfonsyra (µg/L)		<0.025	<0.025	<0.025	<0.025	<0.025
PFTTrDS perfluortridekansulfonsyra (µg/L)		<0.020	<0.020	<0.020	<0.020	<0.020
summa PFAS 20 (µg/L)		0,027	0,02	<0.115	<0.115	<0.115
summa PFAS 21 (µg/L)		0,027	0,02	<0.120	<0.120	<0.120
4:2 FTS fluortelomersulfonat (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
8:2 FTS fluortelomersulfonat (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
perfluoroktan-sulfonamid (FOSA) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
N-metylperfluoroktansulfonamid (MeFOSA) (µg/L)		<0.050	<0.050	<0.050	<0.050	<0.050
N-etylperfluoroktansulfonamid (EtFOSA) (µg/L)		<0.050	<0.050	<0.050	<0.050	<0.050
N-metylperfluoroktansulfonamidetanol (MeFOSE) (µg/L)		<0.025	<0.025	<0.025	<0.025	<0.025
N-etylperfluoroktansulfonamidetanol (EtFOSE) (µg/L)		<0.025	<0.025	<0.025	<0.025	<0.025
FOSAA perfluoroktansulfonamidättiksyra (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
N-metylperfluoroktansulfonamidättiksyra (MeFOSAA) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
N-etylperfluoroktansulfonamidättiksyra (EtFOSAA) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
7H-perfluoroheptansyra (HPFHpA) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
PF37DMOA perfluor-3,7-dimetyloktansyra (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
PFTeDA perfluortetradekansyra (µg/L)		<0.025	<0.025	<0.025	<0.025	<0.025
pH		7,2	7,3	7,7	7,3	7,5
totalkväve (mg/L)	1,25 / 1,25	1,33	1,18	1,94	1,78	0,84
konduktivitet (mS/m)		39,4	53	28,3	23,5	29
mättemperatur pH (°C)		19,4	20	20,2	20	20,2
suspenderade ämnen vid 105°C (mg/L)	25 / 25	7	4,5	<4.0	6,9	<4.0

Provpunkt		6	7	8	9	10
Ämne	Gränsvärde Göteborg / Mölndal	Utlopp Krokrossen	Utlopp Eklanda- bäcken	Utlopp Lunnagårds- bäcken	Utlopp övre Balltorpsbäck- en	Utlopp Balltorps- bäcken
As, arsenik (µg/L)	16 / 15	<0.5	0,522	<0.5	0,547	1,6
Cd, kadmium (µg/L)	0,9 / 0,4	<0.05	<0.05	<0.05	<0.05	0,0771
Co, kobolt (µg/L)		0,277	0,909	0,557	0,36	2,46
Cr, krom (µg/L)	7 / 15	<0.9	50,2	<0.9	<0.9	3,36
Cu, koppar (µg/L)	10 / 10	<1	7,26	3,45	5,08	13,1
Mo, molybden (µg/L)		<0.5	1,86	<0.5	<0.5	3,34
Ni, nickel (µg/L)	68 / 40	1,36	26,8	1,6	2,36	6,34
Pb, bly (µg/L)	28 / 14	<0.5	0,561	0,609	1,64	6,89
V, vanadin (µg/L)		0,317	1,99	1,31	1,82	7,95
Zn, zink (µg/L)	30 / 30	8,9	17,8	15,3	9,45	66,4
Hg, kvicksilver (µg/L)	0,07 / 0,05	<0.02	<0.02	<0.02	<0.02	<0.02
P, fosfor (µg/L)	50 /	<10	58,6	61,9	42,2	187
alifater >C8-C10 (µg/L)		<10	<10	<10	<10	<10
alifater >C10-C12 (µg/L)		<10	<10	<10	<10	<10
alifater >C12-C16 (µg/L)		<10	<10	<10	<10	42
alifater >C16-C35 (µg/L)		<20	<20	<20	<20	32
aromater >C8-C10 (µg/L)		<1.0	<1.0	<1.0	<1.0	<1.0
aromater >C10-C16 (µg/L)		<1.0	<1.0	<1.0	<1.0	<1.0
metylpyrener/metylfloorantener (µg/L)		<1.0	<1.0	<1.0	<1.0	<1.0
(µg/L)		<1.0	<1.0	<1.0	<1.0	<1.0
aromater >C16-C35 (µg/L)		<1.0	<1.0	<1.0	<1.0	<1.0
naftalen (µg/L)		<0.030	<0.030	<0.030	<0.030	<0.030
acenaftylen (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
acenaften (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
fluoren (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
fenantren (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
antracen (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
fluoranten (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
pyren (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
bens(a)antracen (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
krysen (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
bens(b)fluoranten (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
bens(k)fluoranten (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
bens(a)pyren (µg/L)	0,27 / 0,05	<0.010	<0.010	<0.010	<0.010	<0.010
dibens(a,h)antracen (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
bens(g,h,i)perylene (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
indeno(1,2,3,cd)pyren (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
summa PAH 16 (µg/L)		<0.180	<0.180	<0.180	<0.180	<0.180
summa cancerogena PAH (µg/L)		<0.035	<0.035	<0.035	<0.035	<0.035
summa övriga PAH (µg/L)		<0.055	<0.055	<0.055	<0.055	<0.055
summa PAH L (µg/L)		<0.025	<0.025	<0.025	<0.025	<0.025
summa PAH M (µg/L)		<0.025	<0.025	<0.025	<0.025	<0.025
summa PAH H (µg/L)		<0.040	<0.040	<0.040	<0.040	<0.040
oljeindex >C10-<C40 (µg/L)	1000 / 1000	<50.0	<50.0	<50.0	<50.0	183
fraktion C10 - C12 (µg/L)		<5.0	<5.0	<5.0	<5.0	27,5
fraktion C12 - C16 (µg/L)		<5.0	<5.0	<5.0	<5.0	75,9
fraktion C16 - C35 (µg/L)		<30.0	<30.0	<30.0	<30.0	66,3
fraktion C35 - C40 (µg/L)		<10.0	<10.0	<10.0	<10.0	13,5
nitratkväve, NO3-N (mg/L)		0,32	0,46	0,56	0,55	0,49
nitritkväve, NO2-N (mg/L)		0,00061	0,003	0,0037	0,002	0,16

Provpunkt		6	7	8	9	10
Ämne	Gränsvärde	Utlopp Krokrossen	Utlopp Eklanda-bäcken	Utlopp Lunnagårds-bäcken	Utlopp övre Balltorpsbäck-en	Utlopp Balltorps-bäcken
	Göteborg / Mölndal					
ammoniak- + ammoniumkväve (mg/L)		<0.0030	0,02	0,039	0,011	4,7
totalkväve (mg/L)	1,25 / 1,25	0,81	1	1,3	1,6	6,6
fosfatfosfor, PO4-P (mg/L)		0,0015	0,042	0,035	0,014	0,1
totalfosfor (mg/L)	0,05 / 0,05	0,008	0,063	0,054	0,045	0,22
perfluorbutansyra (PFBA) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
perfluoropentansyra (PFPeA) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
perfluorhexansyra (PFHxA) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
perfluoroheptansyra (PFHpA) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
perfluoroktansyra (PFOA) (µg/L)		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
perfluorononansyra (PFNA) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
perfluorodekansyra (PFDA) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
perfluorbutansulfonsyra (PFBS) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
perfluorhexansulfonsyra (PFHxS) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
perfluoroktansulfonsyra (PFOS) (µg/L)		<0.0050	<0.0050	<0.0050	0,0078	<0.0050
6:2 FTS fluortelomersulfonat (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
summa PFAS 11 (µg/L)		<0.050	<0.050	<0.050	0,008	<0.050
perfluorundekansyra (PFUnDA) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
perfluorododekansyra (PFDoDA) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
PFTrDA perfluortridekansyra (µg/L)		<0.025	<0.025	<0.025	<0.025	<0.025
PFPeS perfluoropentansulfonsyra (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
perfluoroheptansulfonsyra (PFHpS) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
PFNS perfluorononansulfonsyra (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
perfluorodekan sulfonsyra (PFDS) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
(µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
(µg/L)		<0.025	<0.025	<0.025	<0.025	<0.025
PFTrDS perfluortridekansulfonsyra (µg/L)		<0.020	<0.020	<0.020	<0.020	<0.020
summa PFAS 20 (µg/L)		<0.115	<0.115	<0.115	0,008	<0.115
summa PFAS 21 (µg/L)		<0.120	<0.120	<0.120	0,008	<0.120
4:2 FTS fluortelomersulfonat (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
8:2 FTS fluortelomersulfonat (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
perfluoroktan-sulfonamid (FOSA) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
(MeFOSA) (µg/L)		<0.050	<0.050	<0.050	<0.050	<0.050
(µg/L)		<0.050	<0.050	<0.050	<0.050	<0.050
(MeFOSE) (µg/L)		<0.025	<0.025	<0.025	<0.025	<0.025
(EtFOSE) (µg/L)		<0.025	<0.025	<0.025	<0.025	<0.025
(µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
(MeFOSAA) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
(EtFOSAA) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
7H-perfluorheptansyra (HPFHpA) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
(µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
PFTeDA perfluortetradekansyra (µg/L)		<0.025	<0.025	<0.025	<0.025	<0.025
pH		6,5	7,3	7,2	7,2	7,3
totalkväve (mg/L)	1,25 / 1,25	0,72	0,91	1,15	1,47	6,14
konduktivitet (mS/m)		12,2	33	19,2	19,7	79,8
mättemperatur pH (°C)		20,5	20,2	20,3	20,1	20,3
suspenderade ämnen vid 105°C (mg/L)	25 / 25	<4.0	6,1	5,2	4,2	96

Provpunkt		11	12	13	14
Ämne	Gränsvärde Göteborg / Mölndal	Inlopp Järnbrotts- dammen	Utlopp järnbrotts- dammen	Järnbrotts-motet	Åbyfältet
As, arsenik (µg/L)	16 / 15	0,547	<0.5	<0.5	0,585
Cd, kadmium (µg/L)	0,9 / 0,4	<0.05	<0.05	<0.05	<0.05
Co, kobolt (µg/L)		0,492	0,393	0,749	0,481
Cr, krom (µg/L)	7 / 15	<0.9	<0.9	1,28	7,58
Cu, koppar (µg/L)	10 / 10	6,62	5,6	5,9	5,92
Mo, molybden (µg/L)		1,85	1,76	1,54	2,13
Ni, nickel (µg/L)	68 / 40	1,98	1,38	3,72	4,4
Pb, bly (µg/L)	28 / 14	1,44	1,14	1,21	0,734
V, vanadin (µg/L)		1,39	1,24	2,12	1,41
Zn, zink (µg/L)	30 / 30	25,4	22,1	19,6	12,6
Hg, kvicksilver (µg/L)	0,07 / 0,05	<0.02	<0.02	<0.02	<0.02
P, fosfor (µg/L)	50 /	118	110	105	96,7
alifater >C8-C10 (µg/L)		<10	<10	<10	<10
alifater >C10-C12 (µg/L)		<10	<10	<10	<10
alifater >C12-C16 (µg/L)		<10	<10	<10	<10
alifater >C16-C35 (µg/L)		<20	<20	<20	<20
aromater >C8-C10 (µg/L)		<1.0	<1.0	<1.0	<1.0
aromater >C10-C16 (µg/L)		<1.0	<1.0	<1.0	<1.0
metylpyrener/metylfloorantener (µg/L)		<1.0	<1.0	<1.0	<1.0
(µg/L)		<1.0	<1.0	<1.0	<1.0
aromater >C16-C35 (µg/L)		<1.0	<1.0	<1.0	<1.0
naftalen (µg/L)		<0.030	<0.030	<0.030	<0.030
acenaftylen (µg/L)		<0.010	<0.010	<0.010	<0.010
acenaften (µg/L)		<0.010	<0.010	<0.010	<0.010
fluoren (µg/L)		<0.010	<0.010	<0.010	<0.010
fenantren (µg/L)		<0.010	<0.010	<0.010	<0.010
antracen (µg/L)		<0.010	<0.010	<0.010	<0.010
fluoranten (µg/L)		<0.010	<0.010	<0.010	<0.010
pyren (µg/L)		<0.010	<0.010	<0.010	<0.010
bens(a)antracen (µg/L)		<0.010	<0.010	<0.010	<0.010
krysen (µg/L)		<0.010	<0.010	<0.010	<0.010
bens(b)fluoranten (µg/L)		<0.010	<0.010	<0.010	<0.010
bens(k)fluoranten (µg/L)		<0.010	<0.010	<0.010	<0.010
bens(a)pyren (µg/L)	0,27 / 0,05	<0.010	<0.010	<0.010	<0.010
dibens(a,h)antracen (µg/L)		<0.010	<0.010	<0.010	<0.010
bens(g,h,i)perylene (µg/L)		<0.010	<0.010	<0.010	<0.010
indeno(1,2,3,cd)pyren (µg/L)		<0.010	<0.010	<0.010	<0.010
summa PAH 16 (µg/L)		<0.180	<0.180	<0.180	<0.180
summa cancerogena PAH (µg/L)		<0.035	<0.035	<0.035	<0.035
summa övriga PAH (µg/L)		<0.055	<0.055	<0.055	<0.055
summa PAH L (µg/L)		<0.025	<0.025	<0.025	<0.025
summa PAH M (µg/L)		<0.025	<0.025	<0.025	<0.025
summa PAH H (µg/L)		<0.040	<0.040	<0.040	<0.040
oljeindex >C10-<C40 (µg/L)	1000 / 1000	64,6	<50.0	<50.0	<50.0
fraktion C10 - C12 (µg/L)		<5.0	<5.0	<5.0	<5.0
fraktion C12 - C16 (µg/L)		<5.0	<5.0	<5.0	<5.0
fraktion C16 - C35 (µg/L)		50,9	<30.0	<30.0	<30.0
fraktion C35 - C40 (µg/L)		13,6	<10.0	<10.0	<10.0
nitratkväve, NO3-N (mg/L)		1,2	1	0,62	0,87
nitritkväve, NO2-N (mg/L)		0,033	0,043	0,011	0,027

Provpunkt		11	12	13	14
Ämne	Gränsvärde Göteborg / Mölnadal	Inlopp Järnbrotts- dammen	Utlopp järnbrotts- dammen	Järnbrotts-motet	Åbyfältet
ammoniak- + ammoniumkväve (mg/L)		0,14	0,16	0,052	0,097
totalkväve (mg/L)	1,25 / 1,25	2,1	1,8	1,3	1,6
fosfatfosfor, PO4-P (mg/L)		0,031	0,078	0,05	0,052
totalfosfor (mg/L)	0,05 / 0,05	0,14	0,1	0,089	0,079
perfluorbutansyra (PFBA) (µg/L)		<0.010	<0.010	<0.010	<0.010
perfluoropentansyra (PFPeA) (µg/L)		<0.010	<0.010	<0.010	<0.010
perfluorhexansyra (PFHxA) (µg/L)		<0.010	<0.010	<0.010	<0.010
perfluoroheptansyra (PFHpA) (µg/L)		<0.010	<0.010	<0.010	<0.010
perfluoroktansyra (PFOA) (µg/L)		0,0192	0,0183	<0.0050	<0.0050
perfluorononansyra (PFNA) (µg/L)		<0.010	<0.010	<0.010	<0.010
perfluorodekansyra (PFDA) (µg/L)		<0.010	<0.010	<0.010	<0.010
perfluorbutansulfonsyra (PFBS) (µg/L)		<0.010	<0.010	<0.010	<0.010
perfluorhexansulfonsyra (PFHxS) (µg/L)		0,011	<0.010	<0.010	<0.010
perfluoroktansulfonsyra (PFOS) (µg/L)		0,0164	0,0207	0,0056	0,0167
6:2 FTS fluortelomersulfonat (µg/L)		<0.010	<0.010	<0.010	<0.010
summa PFAS 11 (µg/L)		0,047	0,039	0,006	0,017
perfluorundekansyra (PFUnDA) (µg/L)		<0.010	<0.010	<0.010	<0.010
perfluorododekansyra (PFDoDA) (µg/L)		<0.010	<0.010	<0.010	<0.010
PFTrDA perfluortridekansyra (µg/L)		<0.025	<0.025	<0.025	<0.025
PFPeS perfluoropentansulfonsyra (µg/L)		<0.010	<0.010	<0.010	<0.010
perfluoroheptansulfonsyra (PFHpS) (µg/L)		<0.010	<0.010	<0.010	<0.010
PFNS perfluorononansulfonsyra (µg/L)		<0.010	<0.010	<0.010	<0.010
perfluorodekan sulfonsyra (PFDS) (µg/L)		<0.010	<0.010	<0.010	<0.010
(µg/L)		<0.010	<0.010	<0.010	<0.010
(µg/L)		<0.025	<0.025	<0.025	<0.025
PFTrDS perfluortridekansulfonsyra (µg/L)		<0.020	<0.020	<0.020	<0.020
summa PFAS 20 (µg/L)		0,047	0,039	0,006	0,017
summa PFAS 21 (µg/L)		0,047	0,039	0,006	0,017
4:2 FTS fluortelomersulfonat (µg/L)		<0.010	<0.010	<0.010	<0.010
8:2 FTS fluortelomersulfonat (µg/L)		<0.010	<0.010	<0.010	<0.010
perfluoroktan-sulfonamid (FOSA) (µg/L)		<0.010	<0.010	<0.010	<0.010
(MeFOSA) (µg/L)		<0.050	<0.050	<0.050	<0.050
(µg/L)		<0.050	<0.050	<0.050	<0.050
(MeFOSE) (µg/L)		<0.025	<0.025	<0.025	<0.025
(EtFOSE) (µg/L)		<0.025	<0.025	<0.025	<0.025
(µg/L)		<0.010	<0.010	<0.010	<0.010
(MeFOSAA) (µg/L)		<0.010	<0.010	<0.010	<0.010
(EtFOSAA) (µg/L)		<0.010	<0.010	<0.010	<0.010
7H-perfluoroheptansyra (HPFHpA) (µg/L)		<0.010	<0.010	<0.010	<0.010
(µg/L)		<0.010	<0.010	<0.010	<0.010
PFTeDA perfluortetradekansyra (µg/L)		<0.025	<0.025	<0.025	<0.025
pH		7,4	7,3	7,2	7,6
totalkväve (mg/L)	1,25 / 1,25	1,96	1,65	1,28	1,41
konduktivitet (mS/m)		40,9	38	39,6	31,7
mättemperatur pH (°C)		20	20,3	20,2	19,5
suspenderade ämnen vid 105°C (mg/L)	25 / 25	86	6,9	11	8,5

Bilaga 4. Resultat vattenkemi på 14 provtagningslokaler i Stora åns och Balltorpsbäckens avrinningsområden

Analys gjord av: ALS Scandinavia AB, Rinkebyvägen 19C, 182 36, Danderyd.

Provtagningsdatum: 2022-12-12

Gul markering - Överskrider ALS rapporteringsvärde

Röd markering - Överskrider Göteborgs Stads och/eller Mölndals Stads generella gränsvärden

Provpunkt		1	2	3	4	5
Ämne	Gränsvärde Göteborg / Mölndal	Krokegården	Dagvatten Järnbrotts-motet	Dagvatten Sisjövägen	Nedre utlopp sisjön	Övre utlopp Sisjön
As, arsenik (µg/L)	16 / 15	0,502	0,723	<0.5	<0.5	<0.5
Cd, kadmium (µg/L)	0,9 / 0,4	<0.05	<0.05	<0.05	<0.05	<0.05
Co, kobolt (µg/L)		1,06	1,21	0,537	<0.2	<0.2
Cr, krom (µg/L)	7 / 15	3,16	<0.9	3,03	<0.9	<0.9
Cu, koppar (µg/L)	10 / 10	5,26	2,98	4,33	<1	1,08
Mo, molybden (µg/L)		1,51	1,67	0,658	<0.5	<0.5
Ni, nickel (µg/L)	68 / 40	5,96	1,77	5,27	<0.6	0,786
Pb, bly (µg/L)	28 / 14	0,742	<0.5	<0.5	<0.5	<0.5
V, vanadin (µg/L)		1,48	0,515	0,282	<0.2	<0.2
Zn, zink (µg/L)	30 / 30	21,1	15	6,26	<4	<4
Hg, kvicksilver (µg/L)	0,07 / 0,05	<0.02	<0.02	<0.02	<0.02	<0.02
P, fosfor (µg/L)	50 /	82,4	154	63,3	<10	<10
alifater >C8-C10 (µg/L)		<10	<10	<10	<10	<10
alifater >C10-C12 (µg/L)		<10	<10	<10	<10	<10
alifater >C12-C16 (µg/L)		<10	<10	<10	<10	<10
alifater >C16-C35 (µg/L)		<20	<20	<20	<20	<20
aromater >C8-C10 (µg/L)		<1.0	<1.0	<1.0	<1.0	<1.0
aromater >C10-C16 (µg/L)		<1.0	<1.0	<1.0	<1.0	<1.0
metylpyrener/metylfluorantener (µg/L)		<1.0	<1.0	<1.0	<1.0	<1.0
(µg/L)		<1.0	<1.0	<1.0	<1.0	<1.0
aromater >C16-C35 (µg/L)		<1.0	<1.0	<1.0	<1.0	<1.0
naftalen (µg/L)		<0.030	<0.030	<0.030	<0.030	<0.030
acenaftilen (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
acenaften (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
fluoren (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
fenantren (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
antracen (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
fluoranten (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
pyren (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
bens(a)antracen (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010

Provpunkt		1	2	3	4	5
Ämne	Gränsvärde Göteborg / Mölndal	Krokegården	Dagvatten Järnbrotts-motet	Dagvatten Sisjövägen	Nedre utlopp sisjön	Övre utlopp Sisjön
krysen (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
bens(b)fluoranten (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
bens(k)fluoranten (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
bens(a)pyren (µg/L)	0,27 / 0,05	<0.010	<0.010	<0.010	<0.010	<0.010
dibens(a,h)antracen (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
bens(g,h,i)perylen (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
indeno(1,2,3,cd)pyren (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
summa PAH 16 (µg/L)		<0.180	<0.180	<0.180	<0.180	<0.180
summa cancerogena PAH (µg/L)		<0.035	<0.035	<0.035	<0.035	<0.035
summa övriga PAH (µg/L)		<0.055	<0.055	<0.055	<0.055	<0.055
summa PAH L (µg/L)		<0.025	<0.025	<0.025	<0.025	<0.025
summa PAH M (µg/L)		<0.025	<0.025	<0.025	<0.025	<0.025
summa PAH H (µg/L)		<0.040	<0.040	<0.040	<0.040	<0.040
oljeindex >C10-<C40 (µg/L)		<50.0	<50.0	<50.0	<50.0	<50.0
fraktion C10 - C12 (µg/L)		<5.0	<5.0	<5.0	<5.0	<5.0
fraktion C12 - C16 (µg/L)		<5.0	<5.0	<5.0	<5.0	<5.0
fraktion C16 - C35 (µg/L)		<30.0	<30.0	<30.0	<30.0	<30.0
fraktion C35 - C40 (µg/L)		<10.0	<10.0	<10.0	<10.0	<10.0
nitratkväve, NO3-N (mg/L)		0,78	0,11	1,4	0,54	0,47
nitritkväve, NO2-N (mg/L)		0,016	0,0077	0,019	0,00098	0,0021
ammoniak- + ammoniumkväve (mg/L)		0,22	1,1	0,1	0,013	0,01
totalkväve (mg/L)	1,25 / 1,25	1,6	1,7	1,7	0,75	0,64
fosfatfosfor, PO4-P (mg/L)		0,046	0,12	0,056	0,0026	0,0022
totalfosfor (mg/L)	0,05 / 0,05	0,074	0,17	0,055	0,005	0,003
perfluorbutansyra (PFBA) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
perfluoropentansyra (PFPeA) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
perfluorhexansyra (PFHxA) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
perfluoroheptansyra (PFHpA) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
perfluoroktansyra (PFOA) (µg/L)		0,006	0,0105	<0.0050	<0.0050	<0.0050
perfluorononansyra (PFNA) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
perfluorodekansyra (PFDA) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
perfluorbutansulfonsyra (PFBS) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
perfluorhexansulfonsyra (PFHxS) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
perfluoroktansulfonsyra (PFOS) (µg/L)		0,0104	0,009	<0.0050	<0.0050	<0.0050
6:2 FTS fluortelomersulfonat (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
summa PFAS 11 (µg/L)		0,016	0,02	<0.050	<0.050	<0.050
perfluorundekansyra (PFUnDA) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
perfluorododekansyra (PFDoDA) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
PFTrDA perfluortridekansyra (µg/L)		<0.025	<0.025	<0.025	<0.025	<0.025
PFPeS perfluoropentansulfonsyra (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
perfluoroheptansulfonsyra (PFHpS) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
PFNS perfluorononansulfonsyra (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
perfluorodekan sulfonsyra (PFDS) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010

Provpunkt		1	2	3	4	5
Ämne	Gränsvärde Göteborg / Mölndal	Krokegården	Dagvatten Järnbrotts-motet	Dagvatten Sisjövägen	Nedre utlopp sisjön	Övre utlopp Sisjön
perfluorundekansulfonsyra (PFUnDS) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
PFDoDS perfluordodekansulfonsyra (µg/L)		<0.025	<0.025	<0.025	<0.025	<0.025
PFTTrDS perfluortridekansulfonsyra (µg/L)		<0.020	<0.020	<0.020	<0.020	<0.020
summa PFAS 20 (µg/L)		0,016	0,02	<0.115	<0.115	<0.115
summa PFAS 21 (µg/L)		0,016	0,02	<0.120	<0.120	<0.120
4:2 FTS fluortelomersulfonat (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
8:2 FTS fluortelomersulfonat (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
perfluoroktan-sulfonamid (FOSA) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
N-metylperfluoroktansulfonamid (MeFOSA) (µg/L)		<0.050	<0.050	<0.050	<0.050	<0.050
N-etylperfluoroktansulfonamid (EtFOSA) (µg/L)		<0.050	<0.050	<0.050	<0.050	<0.050
N-metylperfluoroktansulfonamidetanol (MeFOSE) (µg/L)		<0.025	<0.025	<0.025	<0.025	<0.025
N-etylperfluoroktansulfonamidetanol (EtFOSE) (µg/L)		<0.025	<0.025	<0.025	<0.025	<0.025
FOSAA perfluoroktansulfonamidättiksyra (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
N-metylperfluoroktansulfonamidättiksyra (MeFOSAA) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
N-etylperfluoroktansulfonamidättiksyra (EtFOSAA) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
7H-perfluorheptansyra (HPFHpA) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
PF37DMOA perfluor-3,7-dimetyloktansyra (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
PFTeDA perfluortetradekansyra (µg/L)		<0.025	<0.025	<0.025	<0.025	<0.025
pH		7,2	7,1	7,6	7,2	7,5
totalkväve (mg/L)	1,25 /1,25	1,45	1,78	1,73	0,78	0,7
konduktivitet (mS/m)		110	308	27,4	30,4	34,4
mättemperatur pH (°C)		19,8	20	20,2	19,9	20,3
suspenderade ämnen vid 105°C (mg/L)		11	5,7	<13	< 4,0	<4.0

Provpunkt		6	7	8	9	10
Ämne	Gränsvärde Göteborg / Mölndal	Utlopp Krokrossen	Utlopp Eklanda- bäcken	Utlopp Lunnagårds- bäcken	Utlopp övre Balltorpsbäck- en	Utlopp Balltorps- bäcken
As, arsenik (µg/L)	16 / 15	<0.5	<0.5	<0.5	<0.5	1,2
Cd, kadmium (µg/L)	0,9 / 0,4	0,0755	0,0551	0,0553	<0.05	0,121
Co, kobolt (µg/L)		0,468	0,762	0,898	0,82	2,04
Cr, krom (µg/L)	7 / 15	<0.9	2,79	2,95	3,54	6,61
Cu, koppar (µg/L)	10 / 10	<1	6,81	3,04	5,83	11,2
Mo, molybden (µg/L)		<0.5	2,06	<0.5	0,698	2,47
Ni, nickel (µg/L)	68 / 40	0,787	5,66	5,15	6,33	8,1
Pb, bly (µg/L)	28 / 14	<0.5	<0.5	<0.5	1,2	4,8
V, vanadin (µg/L)		0,375	0,966	0,826	1,15	6,68
Zn, zink (µg/L)	30 / 30	9,77	22,1	13,4	14	58,5
Hg, kvicksilver (µg/L)	0,07 / 0,05	<0.02	<0.02	<0.02	<0.02	<0.02
P, fosfor (µg/L)	50 /	14,2	130	27,4	34,2	158
alifater >C8-C10 (µg/L)		<10	<10	<10	<10	<10
alifater >C10-C12 (µg/L)		<10	<10	<10	<10	<10
alifater >C12-C16 (µg/L)		<10	<10	<10	<10	<10
alifater >C16-C35 (µg/L)		<20	<20	<20	<20	<10
aromater >C8-C10 (µg/L)		<1.0	<1.0	<1.0	<1.0	<1.0
aromater >C10-C16 (µg/L)		<1.0	<1.0	<1.0	<1.0	<1.0
metylpyrener/metylfluorantener (µg/L)		<1.0	<1.0	<1.0	<1.0	<1.0
(µg/L)		<1.0	<1.0	<1.0	<1.0	<1.0
aromater >C16-C35 (µg/L)		<1.0	<1.0	<1.0	<1.0	<1.0
naftalen (µg/L)		<0.030	<0.030	<0.030	<0.030	<0.030
acenaftalen (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
acenaften (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
fluoren (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
fenantren (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
antracen (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
fluoranten (µg/L)		<0.010	<0.010	<0.010	<0.010	0,018
pyren (µg/L)		<0.010	<0.010	<0.010	<0.010	0,019
bens(a)antracen (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
krysen (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
bens(b)fluoranten (µg/L)		<0.010	<0.010	<0.010	<0.010	0,011
bens(k)fluoranten (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
bens(a)pyren (µg/L)	0,27 / 0,05	<0.010	<0.010	<0.010	<0.010	<0.010
dibens(a,h)antracen (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
bens(g,h,i)perylene (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
indeno(1,2,3,cd)pyren (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
summa PAH 16 (µg/L)		<0.180	<0.180	<0.180	<0.180	<0.180
summa cancerogena PAH (µg/L)		<0.035	<0.035	<0.035	<0.035	0,011
summa övriga PAH (µg/L)		<0.055	<0.055	<0.055	<0.055	0,037
summa PAH L (µg/L)		<0.025	<0.025	<0.025	<0.025	<0.025
summa PAH M (µg/L)		<0.025	<0.025	<0.025	<0.025	0,037
summa PAH H (µg/L)		<0.040	<0.040	<0.040	<0.040	0,011
oljeindex >C10-<C40 (µg/L)	1000 / 1000	<50.0	<50.0	<50.0	<50.0	124
fraktion C10 - C12 (µg/L)		<5.0	<5.0	<5.0	<5.0	<5.0
fraktion C12 - C16 (µg/L)		<5.0	<5.0	<5.0	<5.0	7,6
fraktion C16 - C35 (µg/L)		<30.0	<30.0	<30.0	<30.0	94,3
fraktion C35 - C40 (µg/L)		<10.0	<10.0	<10.0	10,3	19,1
nitratkväve, NO3-N (mg/L)		0,62	0,68	0,62	0,58	0,36
nitritkväve, NO2-N (mg/L)		0,0013	0,0087	0,01	0,0051	0,062

Provpunkt		6	7	8	9	10
Ämne	Gränsvärde Göteborg / Mölnadal	Utlopp Krokrossen	Utlopp Eklanda- bäcken	Utlopp Lunnagårds- bäcken	Utlopp övre Balltorpsbäck- en	Utlopp Balltorps- bäcken
ammoniak- + ammoniumkväve (mg/L)		0,0094	0,26	0,068	0,058	11
totalkväve (mg/L)	1,25 / 1,25	0,91	1,4	1,1	1,4	12
fosfatfosfor, PO4-P (mg/L)		0,0024	0,097	0,013	0,01	0,036
totalfosfor (mg/L)	0,05 / 0,05	0,007	0,12	0,031	0,035	0,14
perfluorbutansyra (PFBA) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
perfluoropentansyra (PFPeA) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
perfluorhexansyra (PFHxA) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
perfluoroheptansyra (PFHpA) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
perfluoroktansyra (PFOA) (µg/L)		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
perfluorononansyra (PFNA) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
perfluorodekansyra (PFDA) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
perfluorbutansulfonsyra (PFBS) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
perfluorhexansulfonsyra (PFHxS) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
perfluoroktansulfonsyra (PFOS) (µg/L)		<0.0050	<0.0050	<0.0050	0,0071	<0.0050
6:2 FTS fluortelomersulfonat (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
summa PFAS 11 (µg/L)		<0.050	<0.050	<0.050	0,007	<0.050
perfluorundekansyra (PFUnDA) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
perfluorododekansyra (PFDoDA) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
PFTrDA perfluortridekansyra (µg/L)		<0.025	<0.025	<0.025	<0.025	<0.025
PFPeS perfluoropentansulfonsyra (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
perfluoroheptansulfonsyra (PFHpS) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
PFNS perfluorononansulfonsyra (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
perfluorodekan sulfonsyra (PFDS) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
(µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
(µg/L)		<0.025	<0.025	<0.025	<0.025	<0.025
PFTrDS perfluortridekansulfonsyra (µg/L)		<0.020	<0.020	<0.020	<0.020	<0.020
summa PFAS 20 (µg/L)		<0.115	<0.115	<0.115	0,008	<0.115
summa PFAS 21 (µg/L)		<0.120	<0.120	<0.120	0,008	<0.120
4:2 FTS fluortelomersulfonat (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
8:2 FTS fluortelomersulfonat (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
perfluoroktan-sulfonamid (FOSA) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
(MeFOSA) (µg/L)		<0.050	<0.050	<0.050	<0.050	<0.050
(µg/L)		<0.050	<0.050	<0.050	<0.050	<0.050
(MeFOSE) (µg/L)		<0.025	<0.025	<0.025	<0.025	<0.025
(EtFOSE) (µg/L)		<0.025	<0.025	<0.025	<0.025	<0.025
(µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
(MeFOSAA) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
(EtFOSAA) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
7H-perfluoroheptansyra (HPFHpA) (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
(µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
PFTeDA perfluortetradekansyra (µg/L)		<0.025	<0.025	<0.025	<0.025	<0.025
pH		6,2	7,3	7	7,1	7,6
totalkväve (mg/L)	1,25 / 1,25	0,89	1,39	1,1	1,41	13,1
konduktivitet (mS/m)		14,2	73,6	20,9	24,9	167
mättemperatur pH (°C)		20,1	19,8	20,1	20,2	20,1
suspenderade ämnen vid 105°C (mg/L)	25 / 25	9,9	5,9	5,7	<4	69

Provpunkt		11	12	13	14
Ämne	Gränsvärde Göteborg / Mölnadal	Inlopp Järnbrotts- dammen	Utlopp järnbrotts- dammen	Järnbrotts-motet	Åbyfältet
As, arsenik (µg/L)	16 / 15	<0.5	<0.5	<0.5	0,556
Cd, kadmium (µg/L)	0,9 / 0,4	0,0546	<0.05	0,0555	<0.05
Co, kobolt (µg/L)		0,409	0,366	1,14	0,786
Cr, krom (µg/L)	7 / 15	<0.9	<0.9	0,984	3,47
Cu, koppar (µg/L)	10 / 10	5,52	4,52	5,19	4,15
Mo, molybden (µg/L)		1,3	1,4	1,59	1,78
Ni, nickel (µg/L)	68 / 40	1,35	1,6	3,24	5,82
Pb, bly (µg/L)	28 / 14	<0.5	<0.5	2,42	<0.5
V, vanadin (µg/L)		0,437	0,434	1,7	1,3
Zn, zink (µg/L)	30 / 30	13,6	24,5	20,4	9,57
Hg, kvicksilver (µg/L)	0,07 / 0,05	<0.02	<0.02	<0.02	<0.02
P, fosfor (µg/L)	50 /	68,5	81,7	84,9	108
alifater >C8-C10 (µg/L)		<10	<10	<10	<10
alifater >C10-C12 (µg/L)		<10	<10	<10	<10
alifater >C12-C16 (µg/L)		<10	<10	<10	<10
alifater >C16-C35 (µg/L)		<20	<20	<20	<20
aromater >C8-C10 (µg/L)		<1.0	<1.0	<1.0	<1.0
aromater >C10-C16 (µg/L)		<1.0	<1.0	<1.0	<1.0
metylpyrener/metylfluorantener (µg/L)		<1.0	<1.0	<1.0	<1.0
(µg/L)		<1.0	<1.0	<1.0	<1.0
aromater >C16-C35 (µg/L)		<1.0	<1.0	<1.0	<1.0
naftalen (µg/L)		<0.030	<0.030	<0.030	<0.030
acenaftalen (µg/L)		<0.010	<0.010	<0.010	<0.010
acenaften (µg/L)		<0.010	<0.010	<0.010	<0.010
fluoren (µg/L)		<0.010	<0.010	<0.010	<0.010
fenantren (µg/L)		<0.010	<0.010	<0.010	<0.010
antracen (µg/L)		<0.010	<0.010	<0.010	<0.010
fluoranten (µg/L)		<0.010	<0.010	<0.010	<0.010
pyren (µg/L)		<0.010	<0.010	<0.010	<0.010
bens(a)antracen (µg/L)		<0.010	<0.010	<0.010	<0.010
krysen (µg/L)		<0.010	<0.010	<0.010	<0.010
bens(b)fluoranten (µg/L)		<0.010	<0.010	<0.010	<0.010
bens(k)fluoranten (µg/L)		<0.010	<0.010	<0.010	<0.010
bens(a)pyren (µg/L)	0,27 / 0,05	<0.010	<0.010	<0.010	<0.010
dibens(a,h)antracen (µg/L)		<0.010	<0.010	<0.010	<0.010
bens(g,h,i)perylene (µg/L)		<0.010	<0.010	<0.010	<0.010
indeno(1,2,3,cd)pyren (µg/L)		<0.010	<0.010	<0.010	<0.010
summa PAH 16 (µg/L)		<0.180	<0.180	<0.180	<0.180
summa cancerogena PAH (µg/L)		<0.035	<0.035	<0.035	<0.035
summa övriga PAH (µg/L)		<0.055	<0.055	<0.055	<0.055
summa PAH L (µg/L)		<0.025	<0.025	<0.025	<0.025
summa PAH M (µg/L)		<0.025	<0.025	<0.025	<0.025
summa PAH H (µg/L)		<0.040	<0.040	<0.040	<0.040
oljeindex >C10-<C40 (µg/L)	1000 / 1000	< 50,0	<50.0	<50.0	<50.0
fraktion C10 - C12 (µg/L)		<5.0	<5.0	<5.0	<5.0
fraktion C12 - C16 (µg/L)		<5.0	<5.0	<5.0	<5.0
fraktion C16 - C35 (µg/L)		<30.0	<30.0	<30.0	<30.0
fraktion C35 - C40 (µg/L)		<10.0	<10.0	<10.0	<10.0
nitratkväve, NO3-N (mg/L)		0,44	0,92	0,68	1,4
nitritkväve, NO2-N (mg/L)		0,079	0,043	0,015	0,032

Provpunkt		11	12	13	14
Ämne	Gränsvärde Göteborg / Mölnadal	Inlopp Järnbrotts- dammen	Utlopp järnbrotts- dammen	Järnbrotts-motet	Åbyfältet
ammoniak- + ammoniumkväve (mg/L)		0,6	0,7	0,18	0,29
totalkväve (mg/L)	1,25 / 1,25	1,5	2	1,3	1,6
fosfatfosfor, PO4-P (mg/L)		0,027	0,044	0,049	0,083
totalfosfor (mg/L)	0,05 / 0,05	0,067	0,075	0,079	0,099
perfluorbutansyra (PFBA) (µg/L)		<0.010	<0.010	<0.010	<0.010
perfluoropentansyra (PFPeA) (µg/L)		<0.010	<0.010	<0.010	<0.010
perfluorhexansyra (PFHxA) (µg/L)		<0.010	<0.010	<0.010	<0.010
perfluoroheptansyra (PFHpA) (µg/L)		<0.010	<0.010	<0.010	<0.010
perfluoroktansyra (PFOA) (µg/L)		0,0125	0,0163	<0.0050	<0.0050
perfluorononansyra (PFNA) (µg/L)		<0.010	<0.010	<0.010	<0.010
perfluorodekansyra (PFDA) (µg/L)		<0.010	<0.010	<0.010	<0.010
perfluorbutansulfonsyra (PFBS) (µg/L)		<0.010	<0.010	<0.010	<0.010
perfluorhexansulfonsyra (PFHxS) (µg/L)		<0.010	<0.010	<0.010	<0.010
perfluoroktansulfonsyra (PFOS) (µg/L)		0,0088	0,0062	<0.0050	0,0071
6:2 FTS fluortelomersulfonat (µg/L)		<0.010	<0.010	<0.010	<0.010
summa PFAS 11 (µg/L)		0,021	0,022	<0.050	0,007
perfluorundekansyra (PFUnDA) (µg/L)		<0.010	<0.010	<0.010	<0.010
perfluorododekansyra (PFDoDA) (µg/L)		<0.010	<0.010	<0.010	<0.010
PFTrDA perfluortridekansyra (µg/L)		<0.025	<0.025	<0.025	<0.025
PFPeS perfluoropentansulfonsyra (µg/L)		<0.010	<0.010	<0.010	<0.010
perfluoroheptansulfonsyra (PFHpS) (µg/L)		<0.010	<0.010	<0.010	<0.010
PFNS perfluorononansulfonsyra (µg/L)		<0.010	<0.010	<0.010	<0.010
perfluorodekan sulfonsyra (PFDS) (µg/L)		<0.010	<0.010	<0.010	<0.010
(µg/L)		<0.010	<0.010	<0.010	<0.010
(µg/L)		<0.025	<0.025	<0.025	<0.025
PFTrDS perfluortridekansulfonsyra (µg/L)		<0.020	<0.020	<0.020	<0.020
summa PFAS 20 (µg/L)		0,021	0,022	<0,115	0,007
summa PFAS 21 (µg/L)		0,021	0,022	<0,120	0,007
4:2 FTS fluortelomersulfonat (µg/L)		<0.010	<0.010	<0.010	<0.010
8:2 FTS fluortelomersulfonat (µg/L)		<0.010	<0.010	<0.010	<0.010
perfluoroktan-sulfonamid (FOSA) (µg/L)		<0.010	<0.010	<0.010	<0.010
(MeFOSA) (µg/L)		<0.050	<0.050	<0.050	<0.050
(µg/L)		<0.050	<0.050	<0.050	<0.050
(MeFOSE) (µg/L)		<0.025	<0.025	<0.025	<0.025
(EtFOSE) (µg/L)		<0.025	<0.025	<0.025	<0.025
(µg/L)		<0.010	<0.010	<0.010	<0.010
(MeFOSAA) (µg/L)		<0.010	<0.010	<0.010	<0.010
(EtFOSAA) (µg/L)		<0.010	<0.010	<0.010	<0.010
7H-perfluoroheptansyra (HPFHpA) (µg/L)		<0.010	<0.010	<0.010	<0.010
(µg/L)		<0.010	<0.010	<0.010	<0.010
PFTeDA perfluortetradekansyra (µg/L)		<0.025	<0.025	<0.025	<0.025
pH		7,4	7,3	7,2	7,7
totalkväve (mg/L)	1,25 / 1,25	1,58	2,02	1,38	1,61
konduktivitet (mS/m)		70,6	125	111	41,9
mättemperatur pH (°C)		19,8	20,1	20,3	19,7
suspenderade ämnen vid 105°C (mg/L)	25 / 25	4,7	<13	12	9,5