

WATER SUPPLY ZONE Suffolk West
Essex & Suffolk Water: Period from 01-JAN-2019 to 31-DEC-2019

Parameter	U/A	No. of & Freq.	No. of samples planned	No. of samples taken in year	PCV	No. Of samples contraven	% of samples contraven	Concentration or value (all samples)		
								Relaxed	Min.	Mean
E.coli	/100ml	S	48	48	>0	0	0.000	0.000	0.000	0.000
residual disinfectant - total	mg/l	S	48	48		0	0.000	0.039	0.396	0.750
total coliforms	/100ml	S	48	48	>0	0	0.000	0.000	0.000	0.000
colony counts after 3 days at 22C	/ml	S	24	24		0	0.000	0.000	0.125	1.000
colour	mg/l Pt/Co scale	S	24	23	20	0	0.000	< 0.930	< 1.225	2.200
electrical conductivity	uS/cm 20C	S	24	24	2500	0	0.000	680.000	859.583	1100.00
hydrogen ion (pH)	pH units	S	24	24	9.5	0	0.000	7.160	7.294	7.640
odour (quantitative)	DN	S	24	24	>0	3	12.500	0.000	1.083	13.000
taste (quantitative)	DN	S	24	23	>0	0	0.000	0.000	0.000	0.000
turbidity	NTU	S	24	24	4	0	0.000	0.034	0.071	0.170
ammonium	mg/l NH4	S	24	24	0.5	0	0.000	< 0.007	< 0.013	0.082
chloride	mg/l	S	8	8	250	0	0.000	25.000	60.750	110.000
sulphate	mg/l SO4	S	8	8	250	0	0.000	38.893	100.680	166.744
total organic carbon	mg/l C	S	8	8		0	0.000	0.880	1.485	2.000
aluminium	ug/l Al	S	8	8	200	0	0.000	< 6.600	< 9.143	14.155
antimony	ug/l Sb	S	8	8	5	0	0.000	< 0.080	< 0.176	0.305
arsenic	ug/l As	S	8	8	10	0	0.000	0.048	0.224	0.448
benzene	ug/l	S	8	8	1	0	0.000	< 0.013	< 0.017	< 0.041
benzo(a)pyrene	ug/l	S	8	8	0.01	0	0.000	< 0.001	< 0.001	< 0.002
boron	mg/l B	S	8	8	1	0	0.000	0.021	0.045	0.102
bromate	ug BrO3/l	S	8	8	10	0	0.000	< 0.300	< 0.386	< 0.990
cadmium	ug/l Cd	S	8	8	5	0	0.000	< 0.009	< 0.024	0.075
chromium	ug/l Cr	S	8	8	50	0	0.000	0.090	0.701	1.531
copper	mg/l Cu	S	8	8	2	0	0.000	0.009	0.039	0.128
cyanide (total)	ug/l CN	S	8	8	50	0	0.000	< 1.700	< 3.311	< 5.500
1,2-dichloroethane	ug/l	S	8	8	3	0	0.000	< 0.024	< 0.031	< 0.079
enterococci (confirmed)	/100ml	S	8	8	>0	0	0.000	0.000	0.000	0.000
fluoride	mg/l F	S	8	8	1.5	0	0.000	0.250	0.562	1.000
iron	ug/l Fe	S	8	8	200	0	0.000	< 1.200	< 5.761	13.378
manganese	ug/l Mn	S	8	8	50	0	0.000	< 0.180	< 0.210	< 0.360
mercury	ug/l Hg	S	8	8	1	0	0.000	< 0.011	< 0.014	0.027
nickel	ug/l Ni	U S	8	8	20	0	0.000	0.160	4.794	6.681
nitrate	mg/l NO3	S	8	8	50	0	0.000	< 1.700	< 8.913	25.000
nitrite	mg/l NO2	S	8	8	0.5	0	0.000	< 0.003	< 0.003	< 0.006
pesticides total (calculated)	ug/l	S	8	8	0.5	0	0.000	0.000	0.001	0.006
total PAH	ug/l	S	8	8	0.1	0	0.000	0.000	0.000	0.001
selenium	ug/l Se	S	8	8	10	0	0.000	< 0.420	< 1.705	5.196
sodium	mg/l Na	S	8	8	200	0	0.000	13.716	31.188	80.287
tetrachloromethane	ug/l	S	8	8	3	0	0.000	< 0.025	< 0.032	< 0.081
total THM	ug/l	S	8	8	100	0	0.000	6.220	22.378	45.000
dieldrin	ug/l	S	8	8	0.03	0	0.000	< 0.003	< 0.003	< 0.003
atrazine	ug/l	S	8	8	0.1	0	0.000	< 0.003	< 0.003	< 0.008
ethenes (total by calculation)	ug/l	S	8	8	10	0	0.000	0.000	0.000	0.000
clostridium perfringens	/100ml	S	8	8	>0	0	0.000	0.000	0.000	0.000
nitrite/nitrate formula		S	8	8	1.00	0	0.000	< 0.035	< 0.179	< 0.501
carbetamide	ug/l	S	8	8	0.1	0	0.000	< 0.002	< 0.003	< 0.008
chlortoluron	ug/l	S	8	8	0.1	0	0.000	< 0.001	< 0.001	< 0.003
diuron	ug/l	S	8	8	0.1	0	0.000	< 0.002	< 0.003	< 0.006

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							Min.	Mean	Max.
isoproturon	S	8	8	0.1	0	0.000	< 0.001	< 0.001	< 0.003
linuron	S	8	8	0.1	0	0.000	< 0.001	< 0.002	< 0.006
metamitron	S	8	8	0.1	0	0.000	< 0.002	< 0.003	< 0.007
2,4-DB	S	8	8	0.1	0	0.000	< 0.003	< 0.004	< 0.012
2,4,5-T	S	8	8	0.1	0	0.000	< 0.001	< 0.002	< 0.004
2,4-D	S	8	8	0.1	0	0.000	< 0.001	< 0.001	< 0.004
bentazone	S	8	8	0.1	0	0.000	< 0.001	< 0.001	0.004
clopyralid	S	8	8	0.1	0	0.000	< 0.004	< 0.005	< 0.013
dicamba	S	8	8	0.1	0	0.000	< 0.012	< 0.013	< 0.017
dichlorprop	S	8	8	0.1	0	0.000	< 0.001	< 0.002	< 0.004
MCPA	S	8	8	0.1	0	0.000	< 0.001	< 0.001	< 0.002
MCPB	S	8	8	0.1	0	0.000	< 0.004	< 0.005	< 0.014
MCPP	S	8	8	0.1	0	0.000	< 0.001	< 0.002	< 0.004
propyzamide	S	8	8	0.1	0	0.000	< 0.002	< 0.003	< 0.007
chlorthalonil	S	8	8	0.1	0	0.000	< 0.010	< 0.010	< 0.010
heptachlor	S	8	8	0.03	0	0.000	< 0.005	< 0.005	< 0.005
oxamyl	S	8	8	0.1	0	0.000	< 0.001	< 0.004	< 0.014
aldrin	S	8	8	0.03	0	0.000	< 0.002	< 0.002	< 0.002
heptachlor epoxides	S	8	8	0.03	0	0.000	0.000	0.000	0.000
AMPA	S	8	5	0.1	0	0.000	< 0.003	< 0.012	< 0.022
hexachlorobenzene	S	8	8	0.1	0	0.000	< 0.006	< 0.006	< 0.006
flufenacet	S	8	8	0.1	0	0.000	< 0.002	< 0.002	< 0.005
lenacil	S	8	8	0.1	0	0.000	< 0.002	< 0.002	< 0.006
fluroxypyr	S	8	8	0.1	0	0.000	< 0.005	< 0.007	< 0.018
triclopyr	S	8	8	0.1	0	0.000	< 0.004	< 0.005	< 0.012
metazachlor	S	8	8	0.1	0	0.000	< 0.003	< 0.004	< 0.010
pendimethalin	S	8	8	0.1	0	0.000	< 0.003	< 0.003	< 0.008
pentachlorophenol	S	8	8	0.1	0	0.000	< 0.002	< 0.002	< 0.006
picloram	S	8	8	0.1	0	0.000	< 0.004	< 0.004	< 0.007
quinmerac	S	8	8	0.1	0	0.000	< 0.002	< 0.003	< 0.010
lead (total - 10)	S	8	8	10	0	0.000	0.390	1.321	5.386
chloridazon	S	8	8	0.1	0	0.000	< 0.002	< 0.002	< 0.005
fenpropidin	S	8	8	0.1	0	0.000	< 0.004	< 0.005	< 0.012
fenpropimorph	S	8	8	0.1	0	0.000	< 0.003	< 0.003	< 0.009
terbutryn	S	8	8	0.1	0	0.000	< 0.002	< 0.003	< 0.007
ethofumesate	S	8	8	0.1	0	0.000	< 0.002	< 0.003	< 0.007
tebuconazole	S	8	8	0.1	0	0.000	< 0.001	< 0.001	< 0.004
diflufenican	S	8	8	0.1	0	0.000	< 0.003	< 0.003	< 0.009
chlormequat	S	8	8	0.1	0	0.000	< 0.006	< 0.008	< 0.020
asulam	S	8	8	0.1	0	0.000	< 0.005	< 0.006	< 0.017
metalddehyde	S	8	8	0.1	0	0.000	< 0.005	< 0.008	< 0.021
glyphosate	S	8	6	0.1	0	0.000	< 0.003	< 0.013	< 0.017

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Commentary on Water Quality:

Population of zone = 16934

PCV Exceedences:

Sample failed 05-JUL-2019 (SFZ510) odour (quantitative) = 4. Sample 1904633 taken on 05/07/19. Quantitative Odour result 4DN, described as pencils. Resamples from original property satisfactory. One neighbouring property failing quantitative odour >9 also pencils. Exceedences most likely due to black alkathene pipework. A job raised to replace pipework.

Sample failed 19-AUG-2019 (SFZ510) odour (quantitative) = 13. Sample 1932343 taken 19/08/19. Sample result Quantitative odour 13DN, described as pencils/woody. All associated samples satisfactory. Flushed resample had quantitative odour result 5DN. Failure attributed to customer's black alkathene supply pipe.

Sample failed 24-OCT-2019 (SFZ510) odour (quantitative) = >9. Sample 1974560 Odour >9 described as smoky/hydrocarbon. Resamples also failed but all associated samples were satisfactory. Likely cause of failure is the customer's kitchen tap.

Action taken to comply with Section 19(1)(B) Undertaking:

nickel - Currently under investigation.

Notes:

PCV = Prescribed Concentration or Value

U = Undertaking

S = Standard Sampling Frequency

R = Reduced Sampling Frequency

A = Authorised Supply Point