

# 2016 WATER QUALITY REPORT

Zone Name : Rissington

Zone Reference : ZA01TW

Population : 1500



Parameter	Units	PCV Standard	No of Samples	PCV Breach	Min	Mean	Max
1,2 Dichloroethane (Total)	µg/l	3	4	0	< 0.07	< 0.08	< 0.1
2 4-D (Total)	µg/l	0.1	4	0	< 0.007	< 0.007	< 0.007
2 4-DB (Total)	µg/l	0.1	4	0	< 0.007	< 0.007	< 0.007
2,4,5-T	µg/l	0.1	4	0	< 0.009	< 0.009	< 0.009
Aluminium (Total)	µg/l Al	200	4	0	< 0.9	2.4	4.4
Ametryn	µg/l	0.1	4	0	< 0.001	< 0.002	< 0.002
Ammonium (Total)	mg/l NH4	0.5	4	0	< 0.004	< 0.004	< 0.004
Antimony	µg/l Sb	5	4	0	< 0.03	0.04	0.04
Arsenic (Total)	µg/l As	10	4	0	0.26	0.33	0.4
Atrazine (Total)	µg/l	0.1	4	0	< 0.001	< 0.002	< 0.002
Bentazone (Total)	µg/l	0.1	4	0	< 0.002	< 0.002	< 0.002
Benzene (Total)	µg/l	1	4	0	< 0.02	< 0.03	< 0.07
Benzo[a]Pyrene (Total)	µg/l	0.01	4	0	< 0.0002	< 0.0002	< 0.0002
Boron	mg/l B	1	4	0	0.02	0.04	0.05
Bromate	µg/l BrO3	10	4	0	< 0.1	0.2	0.4
Bromoxynil (Total)	µg/l	0.1	4	0	< 0.006	< 0.006	< 0.006
Cadmium (Total)	µg/l Cd	5	4	0	< 0.006	0.007	0.01
Carbendazim (Total)	µg/l	0.1	4	0	< 0.001	< 0.001	< 0.001
Carbetamide	µg/l	0.1	4	0	< 0.002	< 0.002	< 0.002
Chloride	mg/l Cl	250	4	0	17.3	20.9	25
Chlortoluron (Total)	µg/l	0.1	4	0	< 0.002	< 0.002	< 0.003
Chromium (Total)	µg/l Cr	50	4	0	0.17	0.30	0.36
Clopyralid (Total)	µg/l	0.1	4	0	< 0.005	< 0.005	< 0.005
Clostridium Perfringens (Sulphite-reducing Clostridia) (Confirmed)	No. /100ml	1	4	0	0	0	0
Coliform Bacteria (Indicator)	No. /100ml	1	12	0	0	0	0
Colony Counts After 3 Days At 22øc (Colony Counts)	Count	-	4	0	0	2	6
Colony Counts After 48 Hours At 37øc (Colony Counts)	Count	-	4	0	0	0	0
Colour	mg/l Pt/Co	20	4	0	< 0.5	< 0.6	< 0.7
Conductivity (Electrical Conductivity)	µS/cm @ 20 °C	2500	4	0	525	552	585
Copper (Total)	mg/l Cu	2	4	0	0.006	0.071	0.265
Cyanide (Total)	µg/l CN	50	4	0	< 0.7	1	2
Dicamba (Total)	µg/l	0.1	4	0	< 0.005	< 0.006	< 0.006
Dichlorprop (Total)	µg/l	0.1	4	0	< 0.005	< 0.005	< 0.005

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					<		<		<	
Diuron (Total)	µg/l	0.1	4	0	<	0.003	<	0.003	<	0.003
E.Coli (faecal coliforms Confirmed)	No. /100ml	1	12	0		0		0		0
Enterococci (Confirmed)	No. /100ml	1	4	0		0		0		0
Fenoprop	µg/l	0.1	4	0	<	0.003	<	0.003	<	0.003
Fluoride (Total)	mg/l F	1.5	4	0		0.18		0.26		0.36
Fluroxypyr	µg/l	0.1	4	0	<	0.005	<	0.005	<	0.005
Gross Alpha	Bq/l	0.1	4	0	<	0.02	<	0.03	<	0.04
Gross Beta	Bq/l	1	4	0		0.03		0.05		0.07
Hydrogen ion (pH) - Indicator (Hydrogen ion) (pH)	pH value	9.5	4	0		7.41		7.47		7.57
Ioxynil (Total)	µg/l	0.1	4	0	<	0.003	<	0.003	<	0.003
Iron (Total)	µg/l Fe	200	4	0		3.8		11.4		19.7
Isoproturon (Total)	µg/l	0.1	4	0	<	0.002	<	0.002	<	0.002
Lead (10)	µg/l Pb	10	4	0	<	0.07		0.24		0.68
Linuron (Total)	µg/l	0.1	4	0	<	0.003	<	0.004	<	0.007
Manganese (Total)	µg/l Mn	50	4	0	<	2.6	<	2.6	<	2.6
MCPA (Total) 4-chloro-o-tolyloxyacetic acid	µg/l	0.1	4	0	<	0.004	<	0.004	<	0.004
MCPB (Total)	µg/l	0.1	4	0	<	0.005	<	0.005	<	0.005
MCPP(Mecoprop) (Total)	µg/l	0.1	4	0	<	0.003	<	0.003	<	0.003
Mercury (Total)	µg/l Hg	1	4	0	<	0.02	<	0.03	<	0.05
Metaldehyde	µg/l	0.1	4	0	<	0.005	<	0.005	<	0.005
Monuron	µg/l	0.1	4	0	<	0.002	<	0.002	<	0.002
Nickel (Total)	µg/l Ni	20	4	0		0.58		1.24		2.55
Nitrate (Total)	mg/l NO3	50	4	0		8.15		13.27		18.1
Nitrite - Consumer's Taps	mg/l NO2	0.5	4	0	<	0.002		0.003		0.004
Nitrite/Nitrate formula	mg/l	1	4	0	<	0.37	<	0.37	<	0.37
Odour	No.	0.9	4	0		0		0		0
Pentachlorophenol (Total)	µg/l	0.1	4	0	<	0.006	<	0.006	<	0.006
Pesticides (Total by Calculation)	µg/l	0.5	4	0		0		0		0
Picloram (Total)	µg/l	0.1	4	0	<	0.004	<	0.005	<	0.006
Polycyclic Aromatic Hydrocarbons (Total by Calculation)	µg/l	0.1	4	0		0		0		0
Prometryne	µg/l	0.1	4	0	<	0.001	<	0.001	<	0.002
Propazine	µg/l	0.1	4	0	<	0.001		0.001		0.001
Propyzamide (Total)	µg/l	0.1	4	0	<	0.002	<	0.003	<	0.005
Radon	Bq/l	100	2		<	1	<	1.7	<	2.4
Residual Disinfectant - Free	mg/l	-	12	0		0.22		0.33		0.48
Residual Disinfectant - Total	mg/l	-	12	0		0.38		0.45		0.55
Selenium (Total)	µg/l Se	10	4	0		0.79		0.85		0.96
Simazine (Total)	µg/l	0.1	4	0	<	0.001	<	0.003	<	0.003
Sodium (Total)	mg/l Na	200	4	0		9.6		12.9		15.9
Sulphate	mg/l SO4	250	4	0		37.9		44.8		51.9
Taste (Taste Quant)	No.	0.9	4	0		0		0		0

Parameter	Units	PCV Standard	No of Samples	PCV Breach	Min	Mean	Max
Terbutryn	µg/l	0.1	4	0	< 0.001	< 0.001	< 0.001
Tetrachloromethane (Total)	µg/l	3	4	0	< 0.02	< 0.06	< 0.14
Total Organic Carbon	mg/l C	-	4	0	0.3	0.5	0.7
Trichloroethene & Tetrachloroethene - Sum Of 2 Substances	µg/l	10	4	0	0	0	0
Triclopyr (Total)	µg/l	0.1	4	0	< 0.007	< 0.007	< 0.007
Trihalomethanes (Total by Calculation)	µg/l	100	4	0	9.11	12.66	15.31
Tritium	Bq/l	100	4	0	< 5	< 5	< 5
Turbidity	NTU	4	4	0	< 0.03	< 0.04	< 0.08

**Hardness Classification** : HARD  
**Calcium Carbonate (CaCO<sub>3</sub>)** : 297 ppm  
**Degrees French** : 29.7  
**Degrees Clark** : 20.8  
**Degrees German** : 16.6

## Commentary on Water Quality

All of the samples collected from this zone in 2016 complied with the Water Supply (Water Quality) Regulations 2000.

There were no Undertakings or Authorised Departures applied to this water supply zone during 2016.