

Reporting Period:	October 1, 2011 - September 30, 2012
Water Scheme Name:	Kilcoy
System Location:	Somerset Regional Council

Microbiology

Escherichia Coli	Unit of Measure	LOR	Number of Tests	12 Monthly Rolling Compliance	Minimum	Maximum	Average
October	cfu/100mL	1	4	100	<LOR	<LOR	<LOR
November	cfu/100mL	1	5	100	<LOR	<LOR	<LOR
December	cfu/100mL	1	4	100	<LOR	<LOR	<LOR
January	cfu/100mL	1	5	100	<LOR	<LOR	<LOR
February	cfu/100mL	1	4	100	<LOR	<LOR	<LOR
March	cfu/100mL	1	4	100	<LOR	<LOR	<LOR
April	cfu/100mL	1	4	100	<LOR	<LOR	<LOR
May	cfu/100mL	1	5	100	<LOR	<LOR	<LOR
June	cfu/100mL	1	4	100	<LOR	<LOR	<LOR
July	cfu/100mL	1	3	100	<LOR	<LOR	<LOR
August	cfu/100mL	1	5	100	<LOR	<LOR	<LOR
September	cfu/100mL	1	4	100	<LOR	<LOR	<LOR

LOR = Limit of reporting

Chemistry (General)

General	Unit of Measure	LOR	Number of Tests	Health Limit	Aesthetic Limit	Minimum	Maximum	Average	95th Percentile
Alkalinity	mg/L	1	12			43	99	77	94
Ammonia (Total, as N)	mg/L	0.004	12		0.5	<LOR	0.01	<LOR	0.01
Colour (True)	PCU	0.5	12		15	<LOR	1.3	<LOR	0.97
Conductivity	uS/cm	1	12		950	260	460	377	422
Langelier Index			12			<LOR	<LOR	<LOR	-0.44
Silica	mg/L	0.1	12			12	20	17	19
Total Dissolved Salts	mg/L	1	12			170	290	240	268
Total Hardness	mg/L	0.1	12		200	85	100	93	100
Total Organic Carbon	mg/L	0.1	12			2.1	4.8	3.0	4.6
Turbidity	NTU	0.1	12		5	<LOR	2	0.41	1.5
pH	pH Unit	0.1	12		6.5-8.5	6.9	7.8	7.5	7.8

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Chemistry (Cations)

Cations	Unit of Measure	LOR	Number of Tests	Health Limit	Aesthetic Limit	Minimum	Maximum	Average	95th Percentile
Calcium	mg/L	0.02	12			17	21	19	20
Magnesium	mg/L	0.02	12			10	13	12	13
Potassium	mg/L	0.05	12			2	2.4	2.2	2.4
Sodium	mg/L	0.05	12		180	38	59	46	54

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Chemistry (Anions)

Anions	Unit of Measure	LOR	Number of Tests	Health Limit	Aesthetic Limit	Minimum	Maximum	Average	95th Percentile
Bromide	mg/L	0.01	12			0.02	0.04	0.02	0.04
Chloride	mg/L	1	12		250	41	56	48	55
Chlorine (Free)	mg/L	0.1	53	5		0.32	2.7	1.3	2.4
Chlorine (Combined)	mg/L	0.1	53			<LOR	0.8	0.33	0.7
Chlorine (Total)	mg/L	0.1	53			0.6	2.9	1.6	2.7
Fluoride (as F)	mg/L	0.05	12	1.5		0.71	0.94	0.83	0.93
Nitrate (as N)	mg/L	0.1	12	50		<LOR	0.16	<LOR	0.13
Nitrite (as N)	mg/L	0.1	12	3		<LOR	<LOR	<LOR	<LOR
Nitrite and Nitrate(as N)	mg/L	0.001	12			0.01	0.16	0.07	0.13
Sulfate (as SO ₄)	mg/L	0.1	12	500		30	46	35	42

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Chemistry (Taste and Odour)

Taste and Odour	Unit of Measure	LOR	Number of Tests	Health Limit	Aesthetic Limit	Minimum	Maximum	Average	95th Percentile
Geosmin	ng/L	2	12		5	<LOR	16	5	14
2-Methylisoborneol	ng/L	2	12		5	<LOR	28	9	23

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Chemistry (Metals)

Metals	Unit of Measure	LOR	Number of Tests	Health Limit	Aesthetic Limit	Minimum	Maximum	Average	95th Percentile
Aluminium	mg/L	0.001	12		0.2	0.02	0.15	0.04	0.11
Barium	mg/L	0.001	12	2		0.02	0.03	0.02	0.03
Cadmium	mg/L	0.001	12	0.002		<LOR	<LOR	<LOR	<LOR
Chromium	mg/L	0.001	12	0.05		<LOR	<LOR	<LOR	<LOR
Copper	mg/L	0.001	12	2		0.002	0.004	<LOR	<LOR
Iron	mg/L	0.001	12		0.3	0.01	0.23	0.04	0.14
Lead	mg/L	0.001	12	0.01		<LOR	0.002	<LOR	<LOR
Manganese	mg/L	0.001	12	0.5	0.1	<LOR	0.10	0.01	0.06
Nickel	mg/L	0.001	12	0.02		<LOR	<LOR	<LOR	<LOR
Zinc	mg/L	0.001	12		3	0.003	0.01	0.01	0.01

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Chemistry (DBP)

Disinfection By-Products	Unit of Measure	LOR	Number of Tests	Health Limit	Aesthetic Limit	Minimum	Maximum	Average	95th Percentile
Bromodichloromethane	ug/L	2	12			13	33	19	28
Bromoform	ug/L	2	12			<LOR	4	2	3
Chlorodibromomethane	ug/L	2	12			10	16	12	15
Chloroform	ug/L	2	12			10	79	25	55
Trihalomethanes (Total)	ug/L	0	12	250		37	120	58	93
Bromochloroacetic Acid	ug/L	10	12			<LOR	18	<LOR	15
Dibromoacetic Acid	ug/L	10	12			<LOR	<LOR	<LOR	<LOR
Dichloroacetic Acid	ug/L	10	12	100		14	51	22	39
Monobromoacetic Acid	ug/L	10	12			<LOR	<LOR	<LOR	<LOR
Monochloroacetic Acid	ug/L	10	12	150		<LOR	<LOR	<LOR	<LOR
Trichloroacetic Acid	ug/L	10	12	100		<LOR	41	18	36
Haloacetic Acids (Total)	ug/L	60	12			<LOR	110	<LOR	85
Chlorate	mg/L	0.01	12	0.7		<LOR	0.18	0.02	0.09

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Microbiology (Other)

Microbiology	Unit of Measure	LOR	Number of Tests	Health Limit	Aesthetic Limit	Minimum	Maximum	Average	95th Percentile
Faecal Coliforms	cfu/100mL	1	52			<LOR	<LOR	<LOR	<LOR
Heterotrophic Plate Count	cfu/mL	1	52			<LOR	12	<LOR	1

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