

Reporting Period:	October 1, 2011 - September 30, 2012
Water Scheme Name:	Esk-Toogoolawah
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	8	100	<LOR	<LOR	<LOR
November	cfu/100mL	1	10	100	<LOR	<LOR	<LOR
December	cfu/100mL	1	8	100	<LOR	<LOR	<LOR
January	cfu/100mL	1	10	100	<LOR	<LOR	<LOR
February	cfu/100mL	1	8	100	<LOR	<LOR	<LOR
March	cfu/100mL	1	8	100	<LOR	<LOR	<LOR
April	cfu/100mL	1	8	100	<LOR	<LOR	<LOR
May	cfu/100mL	1	10	100	<LOR	<LOR	<LOR
June	cfu/100mL	1	8	100	<LOR	<LOR	<LOR
July	cfu/100mL	1	8	100	<LOR	<LOR	<LOR
August	cfu/100mL	1	10	100	<LOR	<LOR	<LOR
September	cfu/100mL	1	8	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	24			44	100	80	100
Ammonia (Total, as N)	mg/L	0.004	24		0.5	<LOR	0.01	<LOR	0.01
Colour (True)	PCU	0.5	24		15	<LOR	1	<LOR	0.87
Conductivity	uS/cm	1	24		950	330	510	413	480
Langelier Index		0.1	24			<LOR	0.26	<LOR	0.24
Silica	mg/L	0.1	24			12	14	14	14
Total Dissolved Salts	mg/L	1	24			210	320	265	310
Total Hardness	mg/L	0.1	24		200	80	160	122	160
Total Organic Carbon	mg/L	0.1	24			2.3	5	3.1	4.2
Turbidity	NTU	0.1	24		5	0.11	0.75	0.24	0.36
pH	pH Unit	0.1	24		6.5-8.5	7.1	8.1	7.6	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	24			20	39	30	39
Magnesium	mg/L	0.02	24			7.4	16	12	16
Potassium	mg/L	0.05	24			2.3	3.2	2.7	3.1
Sodium	mg/L	0.05	24		180	27	43	37	42

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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	24			<LOR	0.07	0.03	0.06
Chloride	mg/L	1	24		250	33	73	55	73
Chlorine (Free)	mg/L	0.1	105	5		<LOR	2.2	0.87	2
Chlorine (Combined)	mg/L	0.1	105			<LOR	0.7	0.21	0.4
Chlorine (Total)	mg/L	0.1	105			<LOR	2.7	1.1	2.2
Fluoride (as F)	mg/L	0.05	24	1.5		0.81	1	0.91	0.99
Nitrate (as N)	mg/L	0.1	24	50		<LOR	0.21	0.15	0.2
Nitrite (as N)	mg/L	0.1	24	3		<LOR	<LOR	<LOR	<LOR
Nitrite and Nitrate(as N)	mg/L	0.001	24			0.083	0.21	0.15	0.2
Sulfate (as SO ₄)	mg/L	0.1	24	500		26	46	33	45

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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	24		5	<LOR	6	3	6
2-Methylisoborneol	ng/L	2	24		5	<LOR	4	<LOR	3

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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	24		0.2	0.04	0.18	0.07	0.12
Barium	mg/L	0.001	24	2		0.02	0.04	0.03	0.04
Cadmium	mg/L	0.001	24	0.002		<LOR	<LOR	<LOR	<LOR
Chromium	mg/L	0.001	24	0.05		<LOR	<LOR	<LOR	<LOR
Copper	mg/L	0.001	24	2		0.005	0.05	0.02	0.04
Iron	mg/L	0.001	24		0.3	0.005	0.06	0.02	0.03
Lead	mg/L	0.001	24	0.01		<LOR	0.002	<LOR	<LOR
Manganese	mg/L	0.001	24	0.5	0.1	<LOR	0.01	<LOR	0.01
Nickel	mg/L	0.001	24	0.02		<LOR	<LOR	<LOR	<LOR
Zinc	mg/L	0.001	24		3	0.002	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	24			23	52	36	51
Bromoform	ug/L	2	24			<LOR	8	3	7
Chlorodibromomethane	ug/L	2	24			9	39	22	37
Chloroform	ug/L	2	24			27	86	47	74
Trihalomethanes (Total)	ug/L	0	24	250		72	160	108	160
Bromochloroacetic Acid	ug/L	10	24			<LOR	32	13	24
Dibromoacetic Acid	ug/L	10	24			<LOR	16	<LOR	13
Dichloroacetic Acid	ug/L	10	24	100		<LOR	62	29	58
Monobromoacetic Acid	ug/L	10	24			<LOR	<LOR	<LOR	<LOR
Monochloroacetic Acid	ug/L	10	24	150		<LOR	<LOR	<LOR	<LOR
Trichloroacetic Acid	ug/L	10	24	100		<LOR	84	29	54
Haloacetic Acids (Total)	ug/L	60	24			<LOR	130	72	120
Chlorate	mg/L	0.01	24	0.7		<LOR	1	0.16	0.79

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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	106			<LOR	<LOR	<LOR	<LOR
Heterotrophic Plate Count	cfu/mL	1	106			<LOR	11400	337	103

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