

Seven, Castle, Honeysuckle, Faithful and Warrenbayne Creeks

WATER MONITORING REPORT 1995 - 2007



A water quality monitoring program is important as:

- An educational tool to introduce water quality issues to people who may not have shown interest in the past;
- A means of gathering base water quality datasets that allow useful discussion of water quality issues and provide some direction for future works;
 - A method of assessing the value of on-ground works.



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Introduction

Waterwatch is a community water quality monitoring program that assists the community in monitoring their local waterway. The Program aims to:

- ➡ Increase community awareness and understanding of water quality issues;
- ➡ Increase community involvement in water management decisions; and
- ➡ Generate useful data for community and agency use which complements the data collected by Agency monitoring networks.

Monitoring networks across the Goulburn Broken Catchment have been formed to study water quality in their local areas. The networks are able to test a local stream for a range of parameters using equipment supplied by the Waterwatch Program. The parameters selected for testing in each area depend upon the water quality issues identified by the monitoring network. Monitors also record the date, time and rainfall to assist in the interpretation of the data.

Community Waterwatchers have monitored a number of sites along Seven Creeks and its tributaries since 1995. During 2007, the network monitored 35 sites on a monthly basis for three parameters. They were:

1. Electrical Conductivity (Salinity)
2. Turbidity; and
3. Temperature.

Total Phosphorus samples were also taken regularly at Seven Creeks at Mitchell Road, Arcadia (SEV035).

This report contains the following information:

1. Summary of monitoring sites and participants
2. Monitoring Plan
3. Information about water quality parameters
4. A tabular summary of all data with some interpretation collected at sites in the Seven Creeks sub-catchment
5. Graphical representation of electrical conductivity along the length of the waterway
6. Comparisons of local water quality data with State Environment Protection Policy (SEPP) guidelines

The report provides a summary of testing results since 1995 and should be used to stimulate discussion on the state of water quality in the Seven Creeks, and potential actions to improve water quality. There is the possibility of using water quality data collected in the program, to discover trends in water quality over time and to measure the effects of improvement works carried out in the sub-catchment.

There are many reasons why people are prepared to become involved in a water monitoring program. **In fact, there are as many different reasons as there are people participating in a program!**

The challenge for Waterwatch as a community monitoring program is to help monitoring networks gather the information that **they** want. In the process, the data collected can be extremely valuable to waterway management agencies that are committed to improving the condition of our rivers and streams.

Definitions

Median	Middle number in a series
Mean	Average calculated by adding all data points and dividing by the number of data points

Data Representation

Water quality data in this report is represented and interpreted using a number of methods of presentation:

1. Individual data points (see Appendix A and B).
Individual monitoring results are arranged in tabular form according to site and date.
2. Overall median where the median is calculated using all data collected at the site during the monitoring project.
This gives an overall indication of water quality at that site during the monitoring program. The overall median is compared to a Waterwatch rating scale.
3. Annual median where a median is calculated year by year
This shows the changes or trend in water quality over time.
4. Comparison of annual medians with the SEPP guideline for water quality.
The SEPP objectives identify the 'ideal' result range for environmental data at a particular location in a waterway.

Monitoring Plan

Name of Project Activity Area: Seven and Honeysuckle Creeks

Monitoring Coordinator: Danielle Beischer

Why are you monitoring ?

Waterwatch has an on-going objective to encourage the community to become involved in monitoring local waterways to learn more about water quality issues. The data that is collected through this monitoring program can be used to target on-ground works to improve water quality.

During 2006/08, an intensive monitoring project targetting salinity is being undertaken across the Goulburn Broken Catchment. This Community Stream Sampling Project aims to identify areas in the Murray Darling Basin where salt stores are negatively affecting river quality and discharging saline water into the rivers. Data from this project will be used to prioritise areas for on-ground mitigation works and future investment in salinity management.

Who will use the data?

The community is the main user of Waterwatch data. However, the data is available to other organisations and individuals that have an interest in catchment water quality. These interest groups include the Australian Government, State Government agencies, local government, Catchment Management Authorities (CMAs), Natural Resource Management (NRM) bodies and managers, community groups and local farmers and landholders.

How will the data be used?

Waterwatch data is used by the community to understand issues regarding water quality in waterways. The data is then available to develop local action plans to improve water quality and to measure the effectiveness of these plans.

The Community Stream Sampling Project has specific objectives that include:

- *Identifying areas in the Murray Darling Basin where salt stores 'hot spots' are negatively affecting river quality and discharging saline water into the rivers;*
- *Providing information to assist community groups, Catchment Management Authorities and regional Natural Resource Management (NRM) bodies and NRM managers make decisions on prioritising areas for on ground works and future investment in salinity management.*
- *Establishing a web-based database to allow community groups, Catchment Management Authorities and regional Natural Resource Management bodies and NRM managers to access stream salinity data, salinity mapping and other geophysical and hydrological data to aid in decision-making for future investment*

Where will you monitor?

See Site list on page 6

Who will be involved and how?

See Participant list on page 6

What will be monitored?

Electrical Conductivity is one parameter that is used to gauge the quality of water in a waterbody. It is one of the parameters monitored to develop the Water Quality sub-index of the Index of Stream Condition in Victoria and it is the parameter required for the Community Stream Sampling project.

Other parameters to be measured include total phosphorus, turbidity and temperature. dissolved oxygen and E coli are also able to be monitored where these are of interest to the community monitors.

Data quality controls?

See Data Confidence Plan

**What methods will you use?
When and how often will you monitor?**

See Community Monitoring Manual for the methods and procedures used in the Waterwatch Program and the Community Stream Sampling Project.

A statistical analysis of water quality data requires monthly monitoring as a minimum.

How will the data be managed and reported?

All water quality data is sent to the local Waterwatch Coordinator for QA checks. The data is then forwarded to the Regional Data Management Coordinator for entry onto the Regional Waterwatch Database. Electrical Conductivity data is forwarded to the Bureau of Rural Sciences on a three monthly basis.



Monitoring Sites and Participants

TOM LONG AND RACHAEL MAZA

FAI010 – MAP 8024 E377166 N5935085
XFA005 - MAP 8024 E389658 N 5929422
XFA008 - MAP 8024 E 387653 N 5929997
paddock

Faithfull Creek at Balmattum.
Tributary to Faithfull Ck US Geoff Lucas Pump Site.
Tributary to Faithfull Ck in Tom Long's cropping

GEOFF LUCAS

XFA006 – MAP 8024 E 388601 N 5929729
XFA007 – MAP 8024 E 387635 N 5928682

Tributary to Faithfull Ck at Geoff Lucas' pump site.
Tributary to Faithfull Ck at Harry's Ck Rd u/s Violet
Town

CHARLES AND HAZEL O'CONNOR

MAG005 – MAP 8024 E387291 N5921314
SPR005 - MAP 8024 E387508 N5921262
SPR010 - MAP 8024 E387091 N5920408

Magiltain Creek, Tributary of Spring Creek
Spring Creek U/S of Strathbogie
Spring Creek at Strathbogie.

BILL AND JUDY WELLS

SEV001 – MAP 8024 E396522 N5924149
SEV002 – MAP 8024 E394607 N5925326

Seven Creeks on Watkins Road
Seven Creeks at Creek Junction on Anker Road.

MICHAEL AND DIANNA HAND

SEV005 – MAP 8024 E389327 N5920242

Seven Creeks 2km Downstream of Twin Bridges.

ALAN RICE

SEV006 – MAP 8024 E388826 N5920302

Seven Creeks Downstream of Hand's property.

BERTRAM LOBERT

SEV010 – MAP 8024 E387077 N5919603
SEV013 – MAP 8024 E384291 N5918755

Seven Creeks at Smiths Bridge in Strathbogie.
Seven creeks u/s Polly McQuinns at Jamiesons.

DAVID JAMIESON AND HELEN PETERS

SEV014 – MAP 8024 E384080 N5918496
SEV015 – MAP 8024 E384291 N5918755

Seven Creeks U/S of Polly McQuinns at Peters.
Seven Creeks at Polly McQuinns.

SUSAN FELL-MCLEAN

SEV016 – MAP 8024 E378212 N5914814

Seven Creeks at Gooram Falls on Euroa Mansfield Rd

ANGUS WHITTON

SEV024 – MAP 8024 E373715 N5930627
SEV027 – MAP 8024 E372048 N5934184

Seven Creeks at Euroa, Hume Hwy West.
Seven Creeks at Moglonemby Bridge.

LEAH AND STRUAN CLARKE

SEV025 – MAP 8024 E372629 N5932042

Seven Creeks at Eliza St, Euroa.

WATERWATCH COORDINATOR

DANIELLE BEISCHER

FAI015 – MAP 8024 E378808 N5934751
FAI020 – MAP 8024 E366955 N5946240
SEV004 – MAP 8024 E389546 N5921340
SEV018 – MAP 8024 E376894 N5917391
SEV029 – MAP 7924 E363857 N5947473
SEV032 – MAP 7924 E359513 N5956626
SEV033 – MAP 7924 E359161 N5956229
SEV035 – MAP 7925 E355482 N5964417
SEV040 - MAP 7925 E354224 N5969087

Faithfull Creek on McKernan's Road.
Faithfull Creek on Pine Lodge Road.
Seven Creeks at Twin Bridges on Brookleigh Rd.
Seven Creeks at Galls Gap Road.
Seven Creeks at Miepol.
Seven Creeks on Central Kialla Road. East Branch.
Seven Creeks on Karamomas Road at Arcadia.
Seven Creeks on Mitchell Road at Arcadia.
Seven Creeks at confluence with the Goulburn River.

Turbidity

Turbidity is the cloudiness in water and is the result of suspended material in the water. This suspended material decreases the ability of light to pass through the water and thus can limit plant growth beneath the surface. This in turn affects the fish and invertebrate communities which feed on and live in the plants. Turbidity may be caused by silt, micro-organisms, plant material, algae and chemicals. However, the most frequent cause of turbidity in rivers and other water bodies is inorganic material from soil weathering and erosion.

High levels of turbidity have a two-fold effect on water:

- The water loses its ability to support a large variety of aquatic organisms. Where there is less light penetrating the water, there will be less photosynthesis occurring and therefore a lower level of oxygen in the water.
- The water becomes warmer because the suspended material absorbs heat from the sun. This also decreases the amount of oxygen dissolved in water.

Turbidity can be controlled by the retention of vegetation along streams and farming practices such as contouring and stubble retention.

Turbidity in the Seven Creeks

Seven Creeks and tributaries have been tested for turbidity by Waterwatch and the community since 1995 (Table 1).

Site	TURBIDITY MEDIANS (NTU)												
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
SEV001 Seven Creeks on Watkins Road									22	28*			25
SEV002 Seven Creeks at Anker Road									28	32*	27	20*	30
SEV003 Seven Creeks on Euroa-Strathbogie Road													
SEV004 Seven Creeks at TwinBridges on Brookleigh Rd													
SEV005 Seven Creek 2 km d/s of Twin Bridges												28*	17*
SEV006 Seven Creek downstream of Hand's property												26*	15
<i>MAG005</i> <i>Magiltain Creek, tributary of Spring Creek</i>													11
<i>SPR005</i> <i>Spring Creek U/S Strathbogie</i>													10
<i>SPR010</i> <i>Spring Creek at Strathbogie</i>												11*	11
SEV010 Seven Creeks at Smith's Bridge at Strathbogie												11*	17
SEV013 Seven Creeks u/s of Polly McQuinns at Jamiesons													
SEV014 Seven Creeks u/s of Polly McQuinns at Peters													
SEV015 Seven Creeks at Polly McQuinns			15*	15	12	13							

SEV016 Seven Creeks at Gooram Falls on Euroa Mansfield Road													
SEV018 Seven Creeks at Galls Gap Road									14				
SEV024 Seven Creeks at Hume Hwy West				12	28*								8
SEV025 Seven Creeks at Eliza Street, Euroa			13	15		16			27*				
XFA006 Tributary to Faithfull Ck at Geoff Lucas' pump site													32*
FAI005 Faithfull Creek at Longs Paddock													
FAI010 Faithfull Creek at Balmattum		12	10										
FAI015 Faithfull Creek on McKernans Road													22
FAI020 Faithfull Creek at Pine Lodge Road													
SEV027 Seven Creeks at Moglonemby Bridge													18
SEV029 Seven Creeks at Miepol	30	55											31
SEV032 Seven Creek at Central Kialla Road, East Branch	65*	75		163*					50	60			
SEV033 Seven Creeks at Karamomas Road at Arcadia	55	75		153*					58	65			43
SEV035 Seven Creeks at Mitchell Road	68	65	60	67	77	71	72	69	61	102	80	87	73

Table 1

Ratings:

The Seven Creeks and their tributaries are rated for Valley as far as Euroa, then rated as Plains.

Valley - <10 NTU Excellent, <12.5 NTU Good, <15 NTU Fair, <22.5 NTU Poor, >22.5 NTU Degraded

Plains – <15 NTU Excellent, <17.5 NTU Good, <20 NTU Fair, <30 NTU Poor, >30 NTU Degraded

Note: results in italic with * indicate <5 data sets used to interpret results

Site	TURBIDITY MEDIANS (NTU)												
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
CAS010 Castle Creek at Euroa								-	-	-	-	-	15
CAS015 Castle Creek at Violet Town Murchison Road								-	-	-	-	-	26
CAS020 Castle Creek on McKindrey's Lane								-	-	-	60	-	21
CAS025 Castle Creek at Gribben Road								73	97*	-	-	-	-
<i>HON009</i> <i>Honeysuckle Ck 500m upstream of Hayes Rd</i> <i>Bridge</i>								-	-	-	-	-	17
<i>HON011</i> <i>Honeysuckle Creek at Violet Town</i>								-	-	-	-	-	16
<i>HON013</i> <i>Honeysuckle Creek downstream of Violet Town on</i> <i>Kelly Road</i>								-	-	-	-	-	15
<i>HON025</i> <i>Honeysuckle Creek on Central Kialla Road</i>								-	-	60*	-	-	62
WAR008 Warrenbayne Creek at Warrenbayne/Swanpool Road								-	-	-	-	-	19

Table 2

Ratings:

These Creeks and their tributaries are rated for Valley as far as Euroa, then rated as Plains.

Valley - <10 NTU Excellent, <12.5 NTU Good, <15 NTU Fair, <22.5 NTU Poor, >22.5 NTU Degraded

Plains – <15 NTU Excellent, <17.5 NTU Good, <20 NTU Fair, <30 NTU Poor, >30 NTU Degraded

*Note: results in italic with * indicate <5 data sets used to interpret results*

Table 1 on the previous page, and Figure 1 below show turbidity results in Seven Creeks varied from good to degraded in 2007. Watkins and Anker Roads have relatively high turbidity readings, considering they are at the top end of the catchment. The upper tributaries around Strathbogie have not shown any significant input of turbidity into Seven Creeks. It is not until the Seven Creeks passes Euroa that turbidity climbs quite markedly to levels considered DEGRADED.

Figure 1 below shows the median turbidity at each site for 2007, where there has been sufficient data collected to calculate a representative median. It can be seen that there is a distinct rise in turbidity at the site at Mitchell Road in Arcadia.

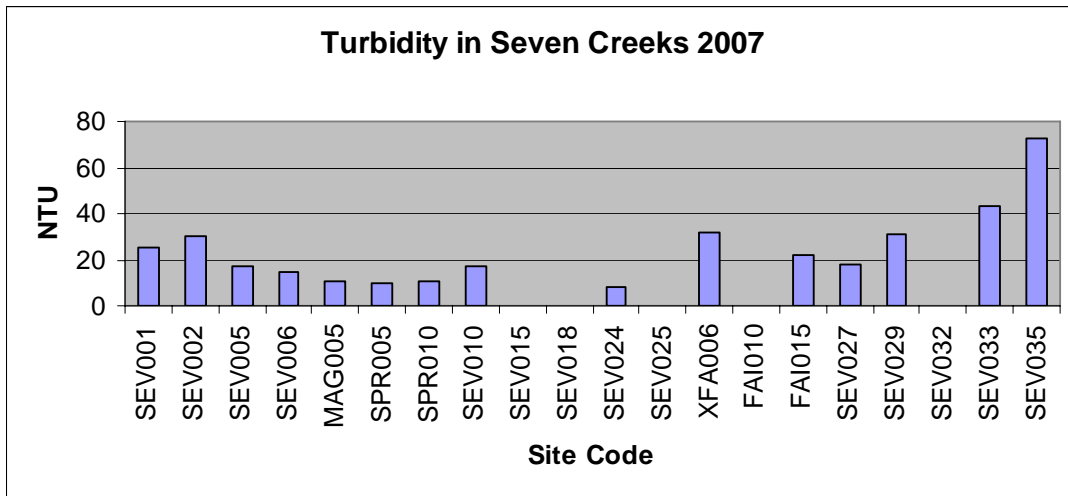


Fig 1

Figure 2 below shows the average median turbidity at each site for the thirteen year period that monitoring has been undertaken. This reflects the data for 2007 above, showing slightly elevated turbidities at the beginning of the catchment, and rising again to just above 80 NTU at the bottom end of the catchment.

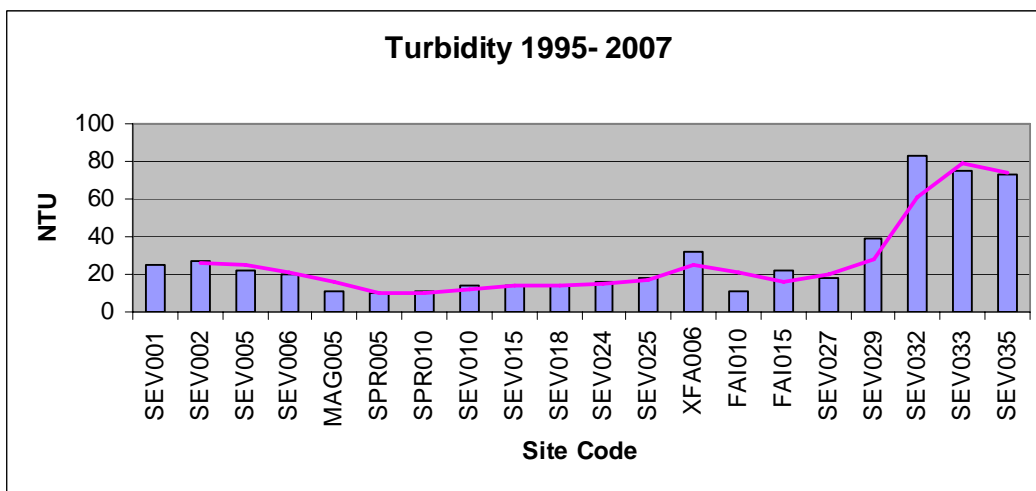


Fig 2

Generally, the turbidity levels in the Seven Creeks sub-catchment are around 20 NTU. In comparison, another site further upstream in the catchment, the Goulburn River above Jamieson, will typically record "Excellent" turbidity levels, ranging between 1 and 5 NTU in 2006. In contrast, a site on the Goulburn River at Shepparton can produce results similar to those in Seven Creeks at Arcadia, or sometimes a lot higher. All of these results are affected by such things as the presence of riparian vegetation along the waterways (a quality riparian zone acts as a filter for turbidity and phosphorus in run-off water) and local agricultural practices (land cleared for agricultural pursuits can contribute to turbidity if best practices aren't employed).

Median Turbidity in Seven Creeks between Euroa and Shepparton

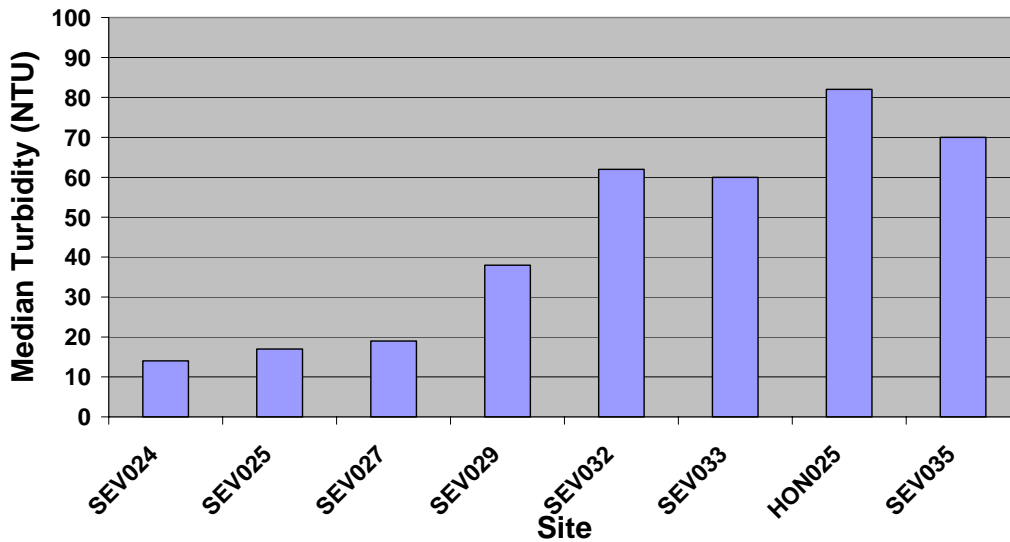


Fig 3

Median turbidities of all sites between Euroa and Shepparton for all years have been graphed above. This shows clearly how turbidity increases markedly after the Seven Creeks has passed through Euroa. The levels from SEV028 downstream are classified as degraded.

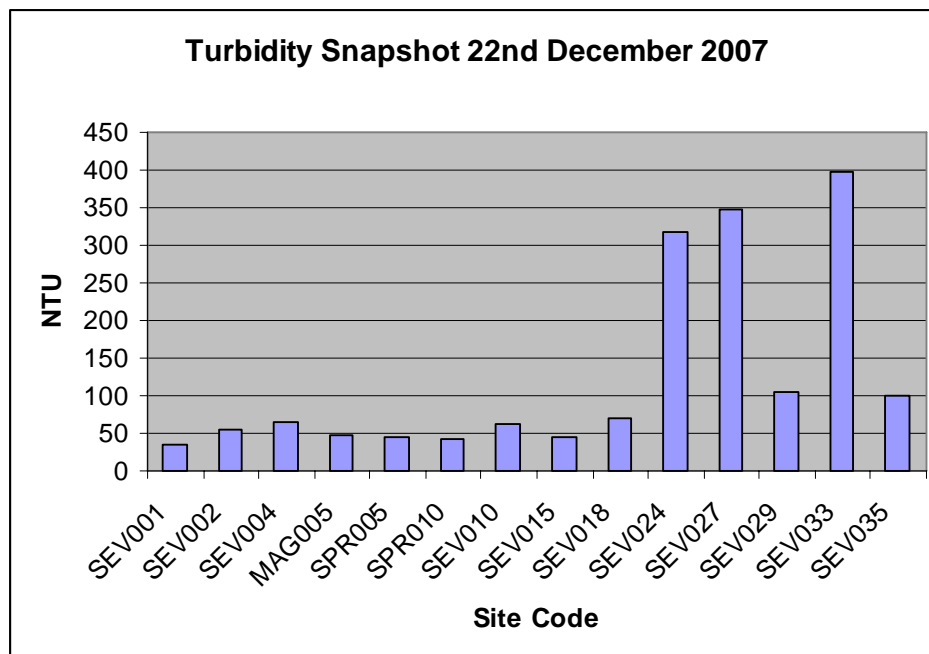


Fig 4

The graph above (figure 4) shows data collected immediately after a rainfall event of approximately 100 mm. The effect of this rainfall is evident in the extremely high turbidity results as shown above.

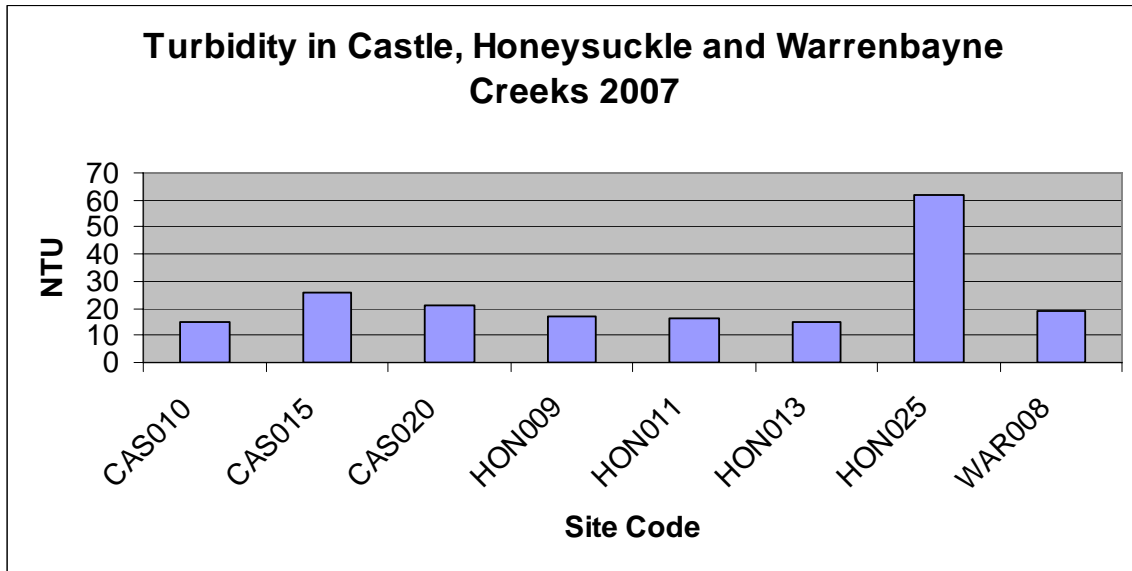


Fig 5

Figure 5 is a summary of the data collected in 2007 over Castle, Honeysuckle and Warrenbayne Creeks. As can be seen, the turbidity values hover around 15-25NTUs, except for HON025 which is consistently higher at around 60NTUs.

Using the scales provided, these values are rated as poor to degraded and in comparison to upper catchment creeks this may be so. However, as can be seen by the result for HON025 most of the values are quite reasonable as they are borderline poor/degraded only.

Salinity

Just as excess salt in our diets can be bad for our health, high salt levels in the environment negatively affect plants, animals and soils in and near waterways. Salinity is potentially the largest environmental problem facing Australia and is a major problem in northern and western Victoria. The most concentrated problem area is in the Murray-Goulburn Irrigation District, but dryland salting problems also occurs around and to the west of Seymour.

Dryland salinity is caused when deep rooted trees are replaced with seasonal crops or grasses that do not pump the water into the atmosphere as efficiently. If trees are cleared higher up in a catchment, this can lead to dramatic rises in watertables. Solutions to reduce salinity levels include revegetation of recharge areas and buffer strips along local streams.

The following outline helps to put salt levels in perspective.

0-800 EC

If you tested the water from your tap at home it would be within this range. This is good drinking water for people and suitable for all animals

When water of 300EC is used in overhead sprinklers by irrigation farmers plants that are sensitive to salt may develop leaf scorch.

800-2500 EC

People can drink water within this range but it would start to taste very salty. This water is still suitable for all animals.

Peas, apricots and grapes can't be grown with water over 1,500 EC. If this water is used for irrigation farming, special care must be taken with drainage and choosing plants that are tolerant to salt. For example, lucerne can be irrigated with water of 2,000 EC and white clover with water of 1,000 EC, provided they are grown on sandy soil with good drainage.

2,500-10,000 EC

Water in this range is not suitable for people and should only be drunk in an emergency. When water over 4,000 EC is given to laying hens it causes their eggs to crack. Water over 6,000 EC is unsuitable for pigs and poultry. Highly saline water may also contain a high level of magnesium which can be harmful to stock. A water sample should be sent to a laboratory for analysis and specific advice obtained. This water is generally not used for irrigation farming except on some crops that have a very high tolerance to salt.

Pears, apples and tomatoes could not be grown with water in this range.

Over 10,000 EC

Don't drink this water! Water over 10,000 EC has an extremely high salinity. This water is unsuitable for people and for most animals. Only beef cattle and adult sheep can survive on water in this range. Irrigation farming is not possible with such highly saline water. In dryland areas only salt tolerant pastures will survive.

At 50,000 EC water has the same salinity as the sea. This water can be used for making concrete and flushing toilets as long as they are able to resist corrosion.

Salinity in Seven Creeks

Seven Creeks and its tributaries have been tested for salinity since 1995 (Fig 7).

Site	SALINITY MEDIANS (EC)												
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
SEV001 Seven Creeks on Watkins Road													60
SEV002 Seven Creeks at Anker Road													56
SEV003 Seven Creeks on Euroa-Strathbogie Road													
SEV004 Seven Creeks at TwinBridges on Brookleigh Rd													
SEV005 Seven Creek 2 km d/s of Twin Bridges												70*	
SEV006 Seven Creek downstream of Hand's property												85*	80
MAG005 <i>Magiltain Creek, tributary of Spring Creek</i>													70
SPR005 <i>Spring Creek U/S Strathbogie</i>													66
SPR010 <i>Spring Creek at Strathbogie</i>												70*	70
SEV010 Seven Creeks at Smith's Bridge at Strathbogie												77*	80
SEV013 Seven Creeks u/s of Polly McQuinns at Jamiesons													
SEV014 Seven Creeks u/s of Polly McQuinns at Peters													
SEV015 Seven Creeks at Polly McQuinns			61*	69	59	57							

Site	SALINITY MEDIANS (EC)												
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
CAS010 Castle Creek at Euroa								-	-	-	-	-	424
CAS015 Castle Creek at Violet Town Murchison Road								-	-	-	-	-	249
CAS020 Castle Creek on McKindrey's Lane								-	-	-	238	-	195
CAS025 Castle Creek at Gribben Road								-	-	-	-	-	-
HON009 Honeysuckle Ck 500m upstream of Hayes Rd Bridge								-	-	-	-	-	220
HON011 Honeysuckle Creek at Violet Town								-	-	-	-	-	253
HON013 Honeysuckle Creek downstream of Violet Town on Kelly Road								-	-	-	-	-	241
HON025 Honeysuckle Creek on Central Kialla Road								-	-	236*	-	-	225
WAR008 Warrenbayne Creek at Warrenbayne/Swanpool Road								-	-	-	-	-	130

Table 4

Ratings:

These Creeks and their tributaries are rated for Valley as far as Euroa, then rated as Plains.

Valley - <80 EC Excellent, <240 EC Good, <400 EC Fair, <600 EC Poor, >600 EC Degraded
Plains - <100 EC Excellent, <250 EC Good, <500 EC Fair, <750 EC Poor, >750 EC Degraded

*Note: results with * indicate <5 data sets used to interpret results*

Results taken monthly reveal an "EXCELLENT" level of salinity as far downstream as Seven Creeks at Smith's Bridge, including Spring Creek. Median results downstream from here show a slight elevation, resulting in a "GOOD" level of salinity.

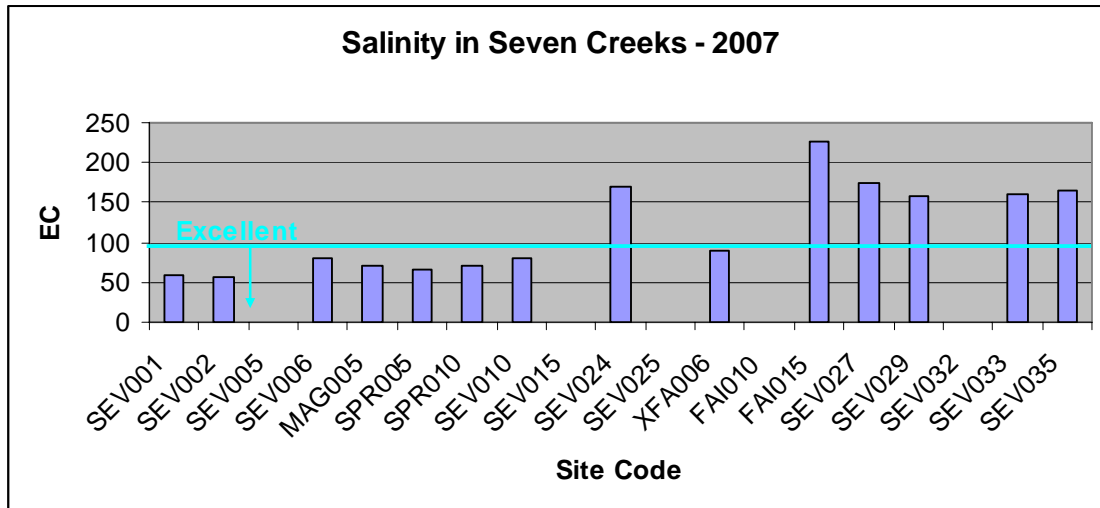


Fig 6

Electrical Conductivity results in 2007 for Seven Creeks increased marginally once the stream has passed through Euroa (see figure 6). However, these higher results are all still regarded as FAIR on the Waterwatch rating scale.

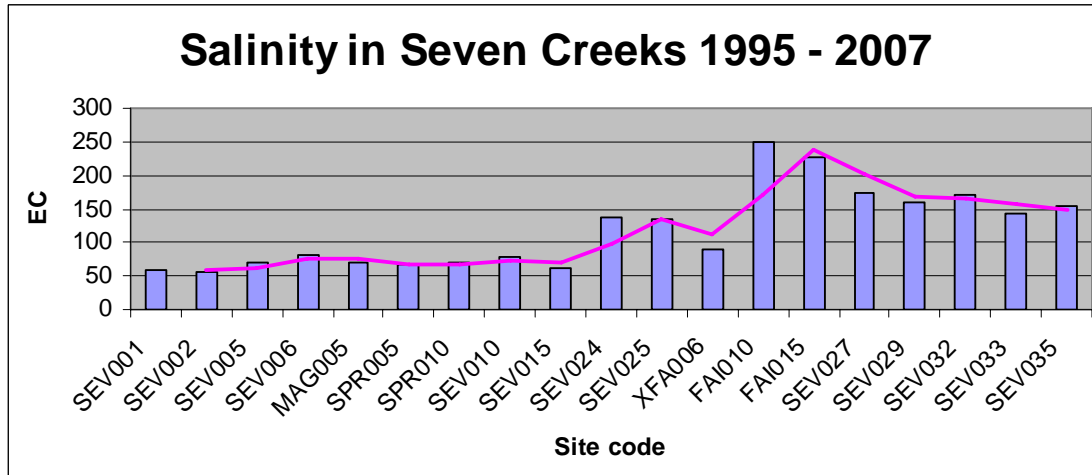


Fig 7

Figure 7 shows the average median salinity at each site for the period 1995 to 2007. In general, salinity levels can be expected to rise as a waterway moves through a catchment. This has been demonstrated here with the median salinity levels rising marginally as the Creek moves down the catchment. Note the computer generated trend line shown in pink on the graph.

These are pleasing results as the salt levels are generally low. This information also becomes our baseline data, with the consistent results making it easy for Seven Creeks' monitors to detect a problem should one arise.

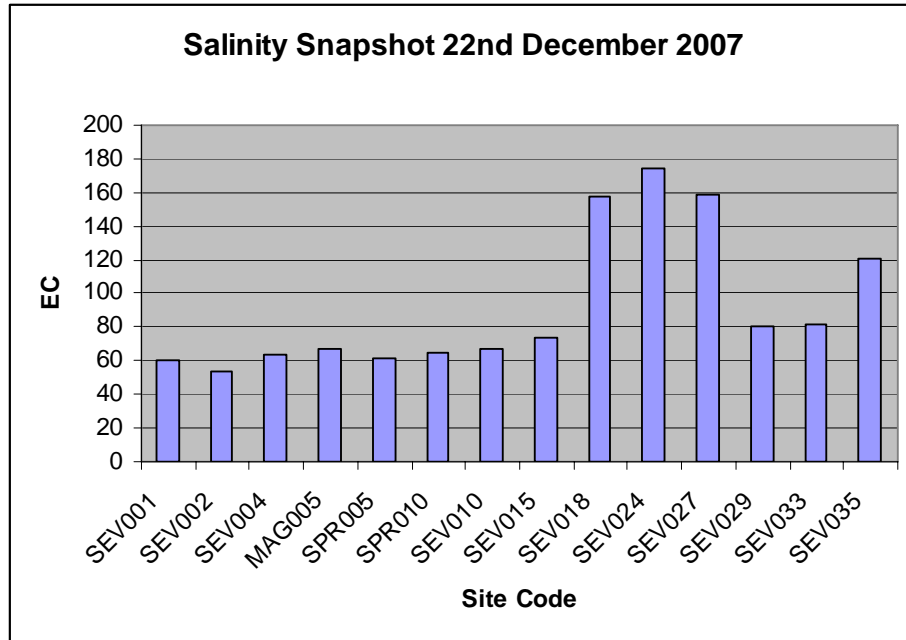


Fig 8

The graph above (figure 8) shows data collected immediately after a rainfall event of approximately 100 mm. High rainfall can result in a short term reduction of salinity levels due to the increased volume of water running through the creek system.

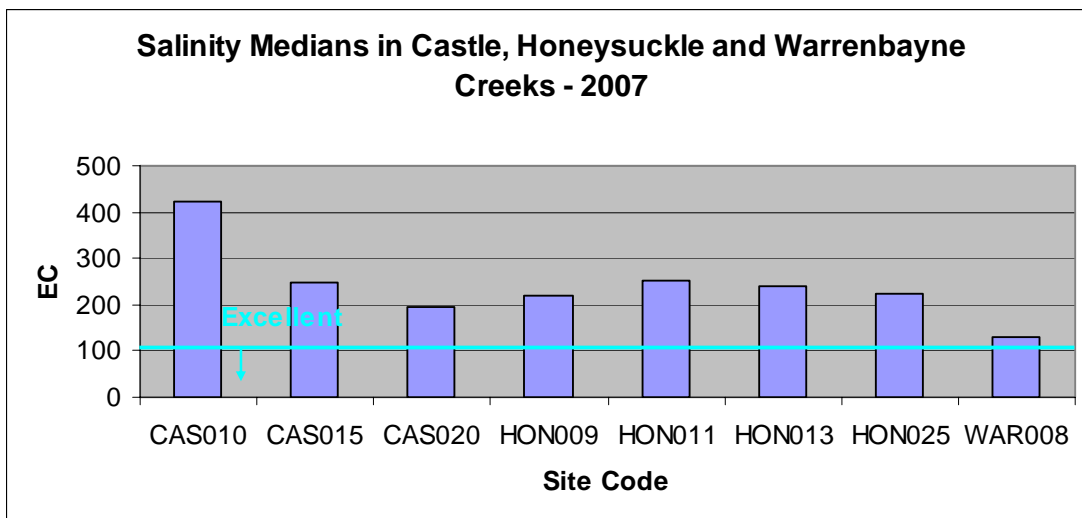


Fig 9

As can be seen in figure 9 the salinity values for Warrenbayne Creek are significantly lower (around 100ECs lower) than results taken in Castle and Honeysuckle Creeks over 2007. Even so, using the scales provided WAR008 results still fall outside of the Excellent rating, which would be below 100ECs.

Phosphorus

Phosphorus is a nutrient that occurs naturally at low concentrations in water and it is essential for all forms of life. It comes from processes like the weathering of rocks and from the decomposition of organic matter such as plant litter. Other sources of phosphorus entering river systems include:

- sewage treatment works
- stormwater drains
- irrigation drains intensive agricultural industries
- runoff from agricultural land
- runoff from forests

An increase in phosphorus levels in streams may result from erosion, discharge of sewage, detergents, urban stormwater and rural runoff that contains fertilisers and animal and plant material. When the phosphorus concentration becomes too high, problems such as algal blooms, excessive growth of aquatic weeds and the loss of species diversity can occur.

Nutrients in waterways (particularly phosphorus) became an important parameter to monitor when deciding the quality of water in a waterway when the Water Quality Strategy was produced for the Goulburn Broken Catchment. Phosphorus is also a parameter included in the chemical sub-index as part of the Victorian Index of Stream Condition rating system for measuring the condition of a waterway. Total phosphorus is used rather than soluble (reactive) phosphorus, as it includes all forms of phosphorus present in a waterway rather than the soluble component.

Phosphorus in Seven Creeks

Seven Creeks at Mitchell Road in Arcadia has been tested for total phosphorus between 1995 and 2007. Because of the time involved and the resources required to test for total phosphorus, only the most downstream site is now being monitored for phosphorus.

Site	MEDIAN TOTAL PHOSPHORUS (mg/L)												
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
SEV035 Seven Creeks at Mitchell Road	0.025	0.12	0.13	0.21	0.14	0.13	0.1	0.115	0.11	0.12	0.10	0.11	0.095

Table 5

Ratings:

The Seven Creeks at Mitchell Road is rated as Plains.

Plains - <0.02 mg/l Excellent, <0.04 mg/l Good, <0.075 mg/l Fair, <0.1 mg/l Poor, >0.1 mg/l Degraded

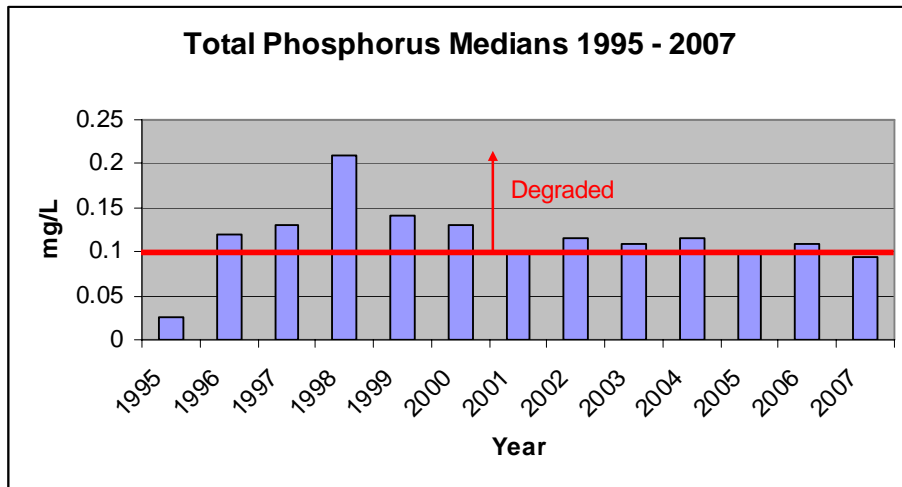


Fig 10

The total phosphorus levels in the Seven Creeks at Arcadia (Figure 10 above) have been classified as DEGRADED for many years, with very little variation. In comparison, other sites further upstream in the catchment, such as the Goulburn River above Jamieson, King Parrot Creek or Sunday Creek in Broadford have recorded median total phosphorus for 2007 of 0.02 mg/L. The Goulburn River in Shepparton has also recorded total phosphorus of 0.02 mg/L. This shows that Seven Creeks has relatively high total phosphorus levels. All of these results are affected by such things as the presence of riparian vegetation along the waterways (a quality riparian zone acts as a filter for turbidity and phosphorus in run-off water) and local agricultural practices (land cleared for agricultural pursuits can contribute to turbidity if best practices aren't employed). Rain events inevitably cause an increase in total phosphorus in a waterway.

SEPP (WoV) Environmental Quality Objectives for Rivers and Streams – water quality

Seven Creeks Subcatchment

Colours highlight the SEPP (WoV) segments and objectives applicable within the Goulburn Broken CMA region.

SEGMENT	INDICATOR						
	Total phosphorus (ug/L)	Dissolved oxygen % saturation		Turbidity (NTU)	Electrical conductivity (uS/CM)	pH (pH units)	
	75 th percentile	25 th percentile	maximum	75 th percentile	75 th percentile	25 th percentile	75 th percentile
• mid-reaches of Ovens, Goulburn and Broken catchments	≤25	≥85	110	≤10	≤500	≥6.4	≤7.7
• lowlands of Kiewa, Ovens, Goulburn & Broken catchments	≤45	≥85	110	≤30	≤500	≥6.4	≤7.7

Note: SEPP objectives are long term theoretical goals for water quality. It is not expected that waterways will comply at this stage

Results in Seven Creeks and tributaries in 2007 to be compared with the above SEPP objectives – water quality

SEGMENT	INDICATOR						
	Total phosphorus (ug/L)	Dissolved oxygen % saturation		Turbidity (NTU)	Electrical Conductivity (uS/cm)	pH (pH units)	
	75 th percentile	25 th percentile	maximum	75 th percentile	75 th percentile	25 th percentile	75 th percentile
MAG005 <i>Magiltain Creek, Tributary of Spring Ck</i>				13	80		
SEV001 <i>Seven Creeks on Watkins Road</i>				32	68		
SEV002 <i>Seven Creeks on Anker Road</i>				56	60		
SEV006 <i>Seven Creeks u/s of Strathbogie</i>				18	125		
SEV010 <i>Seven Creeks at Smiths Bridge, Strathbogie</i>				18	100		
SEV024 <i>Seven Creeks at Euroa, Hume Hwy West</i>		75	106	15	173		
SEV027 <i>Seven Creeks at Moglonemby</i>		62	105	42	410		
SEV029 <i>Seven Creeks at Miepol</i>		83	105	52	176		
SEV033 <i>Seven Creeks at Karamomas Road</i>		56	99	57	176		
SEV035 <i>Seven Creeks at Mitchell Road, Kialla</i>	120	54	99	99	189		
SPR005 <i>Spring Creek u/s of Strathbogie</i>				10	75		
SPR010 <i>Spring Creek at Strathbogie</i>				14	70		

Table 6

75% of readings at each site should not exceed the 75th percentile.

Monitoring in 2008

The Seven Creeks Monitoring Group is encouraged to continue their monitoring program in 2008 and into 2009. Monthly testing provides a statistically robust dataset than can be used to interpret the water quality along a waterway.

Results for 2007 show that the sub-catchment has elevated levels of turbidity when compared with the SEPP objective for a waterway in this part of the catchment. Similarly, total phosphorus levels are above the objective. However, Electrical Conductivity is well under the SEPP objectives.

The results for Electrical Conductivity from this monitoring program are being forwarded to the Commonwealth Bureau of Rural Sciences for inclusion in the two year Community Stream Sampling Program.

Appendix A

Seven Creeks Report

For Samples from 01 Jan 1995 to 31 Dec 2007

SiteNo: SEV001 **Seven Creeks on Watkins Road**

Parameters:

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	DO mg/L	Flow ML/day	Temp ° C	EC µS/cm	Ecoli orgs/100 mL	Rainfall mm	% O2 Sat	pH pH Units	TPhos mg/L P	Turb NTU
10-Jul-03	11:00 AM											30
10-Jul-03	11:30 AM	Grab			6.7	61			81.1	6.8	0.05	21
25-Jul-03	12:45 PM							117				49
13-Aug-03	3:30 PM							9				22
25-Aug-03	4:40 PM							95				37
15-Sep-03	3:15 PM							40				17
01-Oct-03	4:40 PM							20				16
01-Nov-03	4:15 PM							5.5				18
19-Nov-03	4:20 PM											22
01-Jan-04	12:00 PM											31
17-Feb-04	4:30 PM											28
04-Mar-04	4:30 PM											28
19-Mar-04	12:30 PM											19
23-Feb-07	1:00 PM			0				0				
22-Mar-07	1:00 PM							38				
25-Apr-07	1:00 PM			0								
18-May-07	1:15 PM	Grab		med	13.5	30		50				
24-Jun-07	3:13 PM	Grab			6.5	70		0.2				20
03-Jul-07	8:15 AM	Grab		good	8	20		20				20
01-Sep-07	11:00 AM	Grab			8.5	60		2				20
22-Nov-07	1:15 PM	Grab			13	65		10				32
18-Dec-07	1:30 PM	Grab		LOW	16.5	70		8				30
22-Dec-07	6:05 PM	Grab	7.3	HIGH	16.7	60		58	81	7.2		36

Waterwatch Victoria Application (WVA) - Site Report

SiteNo: SEV002 Seven Creeks at Creek Junction on Anker Road

Parameters:

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	DO mg/L	Flow ML/day	Temp ° C	EC µS/cm	Ecoli orgs/100 mL	Rainfall mm	% O2 Sat	pH pH Units	TPhos mg/L P	Turb NTU
10-Jul-03	11:00 AM	Grab			7.2	53	113		78.6	6.9	0.03	34
10-Jul-03	11:30 AM											20
25-Jul-03	1:00 PM							117				51
15-Aug-03	12:00 PM							15				18
25-Aug-03	4:55 PM							95				46
15-Sep-03	3:30 PM							40				23
01-Oct-03	4:50 PM							20				18
01-Nov-03	4:30 PM							5.5				32
13-Nov-03	11:00 AM	Grab	9.6		13.6	51	91		94	6.6	0.04	18
19-Nov-03	4:30 PM											39
01-Jan-04	12:15 PM											150
17-Feb-04	4:45 PM											29
04-Mar-04	4:45 PM											34
19-Mar-04	12:45 PM											11
10-Aug-05	3:20 PM	Grab		high				25				23
31-Aug-05	12:50 PM	Grab		high				64				48
03-Oct-05	3:50 PM	Grab		mediu				26				16
21-Oct-05	4:30 PM	Grab						69				33
08-Nov-05	5:00 PM	Grab		mediu				52				29
03-Dec-05	1:05 PM	Grab		high				34				25
08-May-06	3:15 PM	Grab		mediu				25				26
02-Aug-06	3:20 PM	Grab						12.5				14
04-Sep-06	12:30 PM	Grab						11				20
07-Sep-06	3:30 PM	Grab		mediu				12				19
06-Nov-06	1:45 PM	Grab	8.3		17.2	62	34		93	6.7		
30-Jan-07	12:00 PM			0								
23-Feb-07	12:45 PM			0				0				

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<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	DO mg/L	Flow ML/day	Temp ° C	EC µS/cm	Ecoli orgs/100 mL	Rainfall mm	% O2 Sat	pH pH Units	TPhos mg/L P	Turb NTU
28-Feb-07	12:00 PM			0								
30-Mar-07	12:00 PM			0								
25-Apr-07	1:15 PM			0								
30-Apr-07	12:00 PM			0								
18-May-07	1:00 PM	Grab		high	13.5	56		50				80
18-May-07	3:30 PM	Grab		mediu				68				85
30-May-07	11:15 AM	Grab		mediu				38.5				26
24-Jun-07	3:00 PM	Grab		steady	6	60		0.2				20
03-Jul-07	8:00 AM	Grab		good	8	20		20				18
01-Sep-07	11:15 AM	Grab			7.5	40		2				20
22-Nov-07	1:00 PM	Grab			13.5	60		10				35
18-Dec-07	1:15 PM	Grab		LOW	18	70		8				30
22-Dec-07	6:00 PM	Grab	7.6	HIGH	17	54		58	84	7.5		56

SiteNo: SEV004 Seven Creeks at Twin Bridges on Brookleigh Rd

Parameters:

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	DO mg/L	Flow ML/day	Temp ° C	EC µS/cm	Ecoli orgs/100 mL	Rainfall mm	% O2 Sat	pH pH Units	TPhos mg/L P	Turb NTU
15-Dec-06	3:00 PM	Grab		low	19.2	69						
20-Feb-07	9:00 AM	Grab			20.8	70		17				19
22-Dec-07	4:40 PM	Grab	7.4		18.7	64		58	83	7.8		66

SiteNo: SEV005 Seven Creeks 2km Downstream of Twin Bridges

Parameters:

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	DO mg/L	Flow ML/day	Temp ° C	EC µS/cm	Ecoli orgs/100 mL	Rainfall mm	% O2 Sat	pH pH Units	TPhos mg/L P	Turb NTU
22-Sep-06	2:15 PM	Grab	9.1		11.7	57		0	91	7.0	0.06	44
21-Nov-06	3:00 PM	Grab			18	70		0				35
15-Dec-06	3:45 PM	Grab		low	19.8	73						12

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Waterwatch Victoria Application (WVA) - Site Report

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	DO mg/L	Flow ML/day	Temp ° C	EC µS/cm	Ecoli orgs/100 mL	Rainfall mm	% O2 Sat	pH pH Units	TPhos mg/L P	Turb NTU
24-Dec-06	2:00 PM	Grab			16	70		10				20
22-Jan-07	4:00 PM	Grab			20			25				0
20-Feb-07	9:30 AM	Grab		low	22.1	110		17				8
30-May-07	11:30 AM	Grab		mediu				38.5				25
31-Aug-07	11:40 AM	Grab	10.0	med	10.4	56		0	106	6.6		28

SiteNo: SEV006 Seven Creeks Downstream of SEV005

Parameters:

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	DO mg/L	Flow ML/day	Temp ° C	EC µS/cm	Ecoli orgs/100 mL	Rainfall mm	% O2 Sat	pH pH Units	TPhos mg/L P	Turb NTU
21-Nov-06	3:15 PM	Grab			21.5	70		0				40
17-Dec-06	2:00 PM	Grab		low	19.4	100		0.2				6
17-Dec-06	10:00 AM	Grab		low	19.4	100		0				46
24-Dec-06	1:30 PM	Grab			16	70		10				12
21-Jan-07	2:00 PM	Grab		low	21.5	130		19				1
22-Jan-07	4:15 PM	Grab			20			25				0
26-Feb-07	2:00 PM	Grab		low	26.2	130		1.2				1
08-Apr-07	2:00 PM	Grab		high	15.1	130						10
20-May-07	4:15 PM	Grab		high	11.6	110		70				40
28-Jun-07	4:45 PM	Grab		med	8.2	80		1.6				15
26-Jul-07	4:00 PM	Grab		high	7	70		4.8				10
16-Sep-07	2:30 PM	Grab			10.5	70		0				15
26-Sep-07	4:00 PM	Grab		LOW	10.9	70		0				70
18-Nov-07	4:20 PM	Grab			19.3	80		2.4				20
16-Dec-07	11:00 AM	Grab		LOW	19.9	80		11				15

Waterwatch Victoria Application (WVA) - Site Report

SiteNo: MAG005 Magiltain Creek, Tributary of Spring Creek

Parameters:

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	DO mg/L	Flow ML/day	Temp ° C	EC µS/cm	Ecoli orgs/100 mL	Rainfall mm	% O2 Sat	pH pH Units	TPhos mg/L P	Turb NTU
16-Dec-06	10:00 AM	Grab		med	22.6	70		0				
20-Jan-07	2:15 PM	Grab		low	26.7	80		0				
22-Feb-07	9:00 AM	Grab		med		80		0				13
19-Mar-07	10:00 AM	Grab		falling	17.5	70		3.5				13
15-Apr-07	10:15 AM	Grab		steady	16.3	70		0				15
16-Jun-07	12:15 PM	Grab			12.5	90		0.2				1
20-Jul-07	4:00 PM	Grab			10.3	60		8.4				12
16-Aug-07	12:30 PM	Grab			10.5	60		0				7
23-Sep-07	11:00 AM	Grab			16	60		3				11
15-Oct-07	5:15 AM	Grab			18.5	90		0				10
19-Nov-07	5:30 PM	Grab			23.8	70		5				10
21-Dec-07	12:00 PM	Grab			24.1	70		5				<10
22-Dec-07	5:20 PM	Grab	8.5		17.5	67		58	96	7.8		47

SiteNo: SPR005 Spring Creek U/S of Strathbogie

Parameters:

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	DO mg/L	Flow ML/day	Temp ° C	EC µS/cm	Ecoli orgs/100 mL	Rainfall mm	% O2 Sat	pH pH Units	TPhos mg/L P	Turb NTU
20-Jan-07	3:00 PM	Grab		low		90		0				10
19-Mar-07	10:00 AM			0								
15-Apr-07	10:30 AM	Grab		rising	16.5	70		1				
16-May-07	12:30 PM	Grab			19	70		9.5				5
16-Jun-07	12:30 PM	Grab			10	60		0.2				1
20-Jul-07	4:00 PM	Grab			9.0	50		8.4				2
16-Aug-07	1:00 PM	Grab			10.3	50		0				7

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Waterwatch Victoria Application (WVA) - Site Report

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	DO mg/L	Flow ML/day	Temp ° C	EC µS/cm	Ecoli orgs/100 mL	Rainfall mm	% O2 Sat	pH pH Units	TPhos mg/L P	Turb NTU
23-Sep-07	11:30 PM	Grab		MED	13.2	60		3				
15-Oct-07	5:30 PM	Grab			17.8	70		0				10
19-Nov-07	5:00 PM	Grab			25.7	70		5				10
16-Dec-07	10:30 AM	Grab		low	21.6	70		0				12.5
21-Dec-07	12:00 PM	Grab			23.4	60		5				<10
22-Dec-07	5:30 PM	Grab	8.4		16.8	62		58	92	7.6		44

SiteNo: SPR010 Spring Creek at Strathbogie

Parameters:

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	DO mg/L	Flow ML/day	Temp ° C	EC µS/cm	Ecoli orgs/100 mL	Rainfall mm	% O2 Sat	pH pH Units	TPhos mg/L P	Turb NTU
22-Sep-06	2:40 PM	Grab	9.7		12.1	65		0	97	7.2		15
16-Nov-06	12:10 PM	Grab		MED	9.6	75		0				11.5
16-Dec-06	11:00 AM	Grab			22	70		0				10
16-Dec-06	10:00 AM	Grab			22	70		0				10
16-Jan-07	12:00 PM	Grab		med	12	70						12
22-Feb-07	8:45 AM	Grab		med	20.9	80		0				10
19-Mar-07	10:00 AM	Grab		falling	17	70		3.5				10
15-Apr-07	10:00 AM	Grab		steady		70		0				15
16-May-07	2:00 PM	Grab			20.5	70		9.5				18
16-May-07	2:15 PM	Grab			19	70		9.5				21
16-Jun-07	12:00 PM	Grab			10.5	70		0.2				5
20-Jul-07	4:00 PM	Grab			10.6	70		8.4				11
16-Aug-07	12:00 PM	Grab			9.5	60		0				7
31-Aug-07	11:50 AM	Grab	10.1	med	10.6	60		0	98	6.8		12
23-Sep-07	11:00 AM	Grab		MED	14.7	80		3				12
15-Oct-07	5:00 PM	Grab			16.8	70		0				10
19-Nov-07	5:45 PM	Grab			23.7	70		5				10
21-Dec-07	12:00 PM	Grab			25	70		5				<10
22-Dec-07	4:25 PM	Grab	8.5		18.1	65		58	96.4	8		42

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Waterwatch Victoria Application (WVA) - Site Report

SiteNo: SEV010 Seven Creeks at Smiths Bridge in Strathbogie

Parameters:

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	DO mg/L	Flow ML/day	Temp ° C	EC µS/cm	Ecoli orgs/100 mL	Rainfall mm	% O2 Sat	pH pH Units	TPhos mg/L P	Turb NTU
10-Jul-03	12:15 PM	Grab			7.3	71	47		83	6.6	<0.01	16
06-Aug-03	3:00 PM	Grab	11.1		7.8	61		2	95.5	6.3	<0.01	
13-Nov-03	10:30 AM	Grab	9.7		14.8	64	118		97	6.8	0.04	16
30-Jul-04	2:30 PM		10.1		7.8	71	133		91	6.7	0.05	23
19-Nov-04	12:30 PM	Grab	8.5		16	55	325	0	92	6.9		26
08-Apr-05	2:00 PM	Grab	9.2		16	325			96	7.1	0.03	21
22-Sep-06	2:56 PM	Grab	9.5		11.9	70		0	94	6.9	0.04	17
06-Nov-06	2:10 PM	Grab	7.8	slow	18.6	83	16		89	6.8	<0.02	7.6
16-Nov-06	2:00 PM	Grab		med	12	70		0				12
23-Dec-06	1:30 PM	Grab			22.1	100		12				10
23-Jan-07	4:45 PM	Grab		low	24.5	110		0				<10
08-Mar-07	8:30 AM	Grab		low	16.8	110		0				8
21-Mar-07	9:00 AM	Grab		med	17.7	100		40				8
16-May-07	10:00 AM	Grab			13.8	100		9				18
09-Jul-07	12:30 PM	Grab		high	17.9	70		35.4				18
15-Aug-07	5:00 PM	Grab		steady	8.2	70		0.2				17
31-Aug-07	11:15 AM	Grab	10.1	med	10.5	65		0	106	6.7		26
30-Oct-07	6:00 PM	Grab		med	22.8	80		20				17
22-Dec-07	6:30 PM	Grab	8.3	HIGH	18.3	67		58	94	7.4		63

SiteNo: SEV013 Seven creeks u/s Polly McQuinns at Jamiesons

Parameters:

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	DO mg/L	Flow ML/day	Temp ° C	EC µS/cm	Ecoli orgs/100 mL	Rainfall mm	% O2 Sat	pH pH Units	TPhos mg/L P	Turb NTU
17-Dec-06	9:45 AM	Grab		low	22	90		0				11

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Waterwatch Victoria Application (WVA) - Site Report

SiteNo: SEV014 Seven Creeks U/S of Polly McQuinns at Peters

Parameters:

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	DO mg/L	Flow ML/day	Temp ° C	EC µS/cm	Ecoli orgs/100 mL	Rainfall mm	% O2 Sat	pH pH Units	TPhos mg/L P	Turb NTU
17-Dec-06	10:45 AM	Grab		low	24.7	100		0				33

SiteNo: SEV015 Seven Creeks at Polly McQuinns

Parameters:

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	DO mg/L	Flow ML/day	Temp ° C	EC µS/cm	Ecoli orgs/100 mL	Rainfall mm	% O2 Sat	pH pH Units	TPhos mg/L P	Turb NTU
02-Sep-97	12:00 PM	Grab	10	131	10.4	64				7		17.2
07-Oct-97	12:45 PM	Grab	9.4	55	18.8	56				7		12
04-Nov-97	11:25 AM	Grab	8.8	55	15.3	58				6.7		26
02-Dec-97	10:30 AM	Grab	8.6	18.9	20.4	74				6.9		9
06-Jan-98	10:10 AM	Grab	8.1	7.5	21.6	76				6.8		2.4
03-Feb-98	10:40 AM	Grab	7.3	6.6	23.3	83				6.8		4
01-Apr-98	11:25 AM	Grab	8.2	4.6	14.4	81				6.4		3.7
05-May-98	12:30 PM	Grab	8.8	20.5	11.9	84				6.4		21
02-Jun-98	12:20 PM	Grab	10	17.7	15	83				6.7		15
07-Jul-98	11:50 AM	Grab	10.4	195	9	61				5.9		34
04-Aug-98	11:45 AM	Grab	9.6	159	9.1	57				6.4		14
08-Sep-98	12:00 PM	Grab	10.2	58	11.5	54				6.4		14
06-Oct-98	10:30 AM	Grab	9.4		12.9	45				6.2		26
01-Dec-98	11:00 AM	Grab	8.6	45	17.6	39				7.2		15
02-Feb-99	10:00 AM	Grab	8.4	11.2	23	91				6.7		4.3
10-Mar-99	10:30 AM	Grab	7.6	11.2	20.6	77				6.6		4.6
07-Apr-99	12:05 PM	Grab	8.6	90	15	56				6.1		28
11-May-99	1:05 PM	Grab	10.7	23	10.5	74				6.8		12

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Waterwatch Victoria Application (WVA) - Site Report

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	DO mg/L	Flow ML/day	Temp ° C	EC µS/cm	Ecoli orgs/100 mL	Rainfall mm	% O2 Sat	pH pH Units	TPhos mg/L P	Turb NTU
02-Jun-99	11:15 AM	Grab	9.6	137	10.3	53				6.5		22
06-Jul-99	1:10 PM	Grab	10.4	97	7.2	57				6.8		12
01-Sep-99	11:30 AM	Grab	10	205	12.8	47				6.8		15
06-Oct-99	10:35 AM	Grab	9.6	81	15.5	60				7.1		12
03-Nov-99	10:20 AM	Grab	8.6	58.2	16.5	45				7.2		25
01-Dec-99	9:35 AM	Grab	7.8		22.2	60				7.5		8.1
05-Jan-00	10:20 AM	Grab	8.1	32	17.7	62				6.5		16
01-Feb-00	10:30 AM	Grab	7.8	13.5	20.8	69				6.8		5.5
03-Apr-00	10:25 AM	Grab	8.5	15.4	17.3	78				7		7.5
02-May-00	10:20 AM	Grab	8.6	27	11	71				6.7		16
06-Jun-00	11:05 AM	Grab	11.7	119	6.8	52				6.8		26
04-Jul-00	12:00 PM	Grab	11.4	90.8	6.5	54				7.7		14
02-Aug-00	11:35 AM	Grab	11.2	119	7	41				6.6		11
03-Oct-00	10:30 AM	Grab	10	135	11.8	57				7.1		12
08-Nov-00	10:45 AM	Grab	8.8	129	16.3	52				6.8		13
05-Dec-00	9:40 AM	Grab	8	53	21.1	57				7.2		7.5
10-Jul-03	12:30 PM	Grab			7.8	77	47		88	6.8	0.12	12
06-Aug-03	3:15 PM	Grab	11.5		8.1	66	2		98	6.3	0.03	
13-Nov-03	10:15 AM	Grab	10.9		16.9	69	122		111	6.9	0.05	12
19-Nov-04	12:45 PM	Grab	8.6		17	59	0		94	6.9		25
08-Apr-05	1:40 PM	Grab	8.6		19	71	186		100	7.3	0.04	18
22-Feb-07	10:00 AM	Grab			24	110	0					10
22-Dec-07	6:40 PM	Grab	8.7	HIGH	19.2	74		58	99	7.3		46

SiteNo: SEV016 Seven Creeks at Gooram Falls on Euroa Mansfield Road

			<u>Parameters:</u>									
<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	DO mg/L	Flow ML/day	Temp ° C	EC µS/cm	Ecoli orgs/100 mL	Rainfall mm	% O2 Sat	pH pH Units	TPhos mg/L P	Turb NTU
30-Jul-04	3:00 PM		9.9		8.4	97	91		92	7.1	0.06	19
31-Aug-07	11:00 AM	Grab	10.7	med	11.6	97		0	112	7.1		14

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SiteNo: SEV018 Seven Creeks at Galls Gap Road

Parameters:

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	DO mg/L	Flow ML/day	Temp ° C	EC µS/cm	Ecoli orgs/100 mL	Rainfall mm	% O2 Sat	pH pH Units	TPhos mg/L P	Turb NTU
10-Jul-03	10:00 AM	Grab			7.4	115	51	0.5	84.9	7.1	0.21	12
24-Jul-03	9:00 AM	Grab						71				100
29-Jul-03	10:00 AM	Grab						9				27
08-Aug-03	5:00 PM	Grab						3.5				12
18-Aug-03	4:00 PM	Grab						2				14
24-Aug-03	5:00 PM	Grab						40				90
09-Sep-03	4:00 PM	Grab										12
12-Sep-03	3:00 PM	Grab						10				19
13-Nov-03	10:00 AM	Grab	10.2		15.4	97	188		103	7	0.03	8
19-Nov-04	12:45 PM	Grab	8.4		19	82		0	93	7.1		21
22-Sep-06	3:20 AM	Grab	9.5		14.1	114		0	97	7.1	<0.02	17
06-Nov-06	2:40 PM	Grab	8.5	slow	20.2	113	93		96	7	<0.02	4.7
22-Dec-07	7:00 PM	Grab	8.2	high	19.4	157		58	92	7.1		70

SiteNo: SEV024 Seven Creeks at Euroa, Hume Hwy West

Parameters:

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	DO mg/L	Flow ML/day	Temp ° C	EC µS/cm	Ecoli orgs/100 mL	Rainfall mm	% O2 Sat	pH pH Units	TPhos mg/L P	Turb NTU
08-Jul-98	12:00 PM	Grab				121		30			0.13	56
01-Dec-98	8:15 AM	Grab	7.8	62	17.6	85				6.9		12
02-Feb-99	8:35 AM	Grab	3.4	7.6	21	162				6.4		24
10-Mar-99	8:15 AM	Grab	5.6	10.2	16.7	145				6.9		11
11-May-99	10:30 AM	Grab	9	26	10.5	150				6.8		8.5
06-Jul-99	10:25 AM	Grab	10.2	129	7.2	116				6.9		13
01-Sep-99	9:20 AM	Grab	9	333	13.7	101				6.6		19

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<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	DO mg/L	Flow ML/day	Temp ° C	EC µS/cm	Ecoli orgs/100 mL	Rainfall mm	% O2 Sat	pH pH Units	TPhos mg/L P	Turb NTU
14-Oct-99	9:00 AM	Grab	8.4	129	15.1	115				6.8		11
03-Nov-99	8:15 AM	Grab	8	85.8	16.7	90				7.1		18
01-Dec-99	7:50 AM	Grab	6.8		21.9	126				7.2		8
05-Jan-00	8:15 AM	Grab	7.6	442	17	127				6.7		15
22-Jun-00	5:00 PM	Grab				120		10			0.13	41
15-Sep-00	12:00 PM	Grab				80				7.5	0.07	43
11-Dec-00	12:00 PM	Grab			26.7	120		0		7.2	0.07	12
01-Jul-03	4:00 PM	Grab	9.3		10.8	162		34	88	6.9	0.11	34
06-Aug-03	3:45 PM	Grab	10.8		9.3	169		2	94	6.7	0.09	
24-Jan-07	6:00 PM							7				
24-Jan-07	7:10 PM			0				10				
16-Feb-07	8:15 AM			dry				1.2				
09-May-07	11:30 AM	Grab	8.4	low	14.4	241		0	83	7.7	0.02	11
12-Jun-07	2:30 PM	Grab		low	8.8	170		3				5
22-Jul-07	5:05 PM	Grab		good	7.2	150		0				16
28-Jul-07	1:15 PM	Grab		low	21.1	140		0				10
31-Aug-07	10:30 AM	Grab	10	med	12.2	148		0	106	7.0		11
27-Oct-07	11:15 AM	Grab	7.9		19	172		10	87	7.2		11
22-Nov-07	12:30 PM	Grab	7.2	low	16.1	168		0	75	7.6		15
22-Dec-07	4:00 PM	Grab	6.4		20.6	174		58	74	7.4		317

SiteNo: SEV025 **Seven Creeks at Eliza St, Euroa**

Parameters:

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	DO mg/L	Flow ML/day	Temp ° C	EC µS/cm	Ecoli orgs/100 mL	Rainfall mm	% O2 Sat	pH pH Units	TPhos mg/L P	Turb NTU
01-Jul-97	8:50 AM	Grab	9.8		8.7	135				6.8		12.5
05-Aug-97	8:50 AM	Grab	10.8	46	5.6	120				6.9		8
02-Sep-97	9:55 AM	Grab	9.4	131	12.2	113				6.8		17
07-Oct-97	10:00 AM	Grab	8.4	7	18.6	115				6.9		13
04-Nov-97	7:50 AM	Grab	7.6	90	15.8	99				6.6		18
02-Dec-97	8:15 AM	Grab	6.7	20.3	19.1	125				6.5		10

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Waterwatch Victoria Application (WVA) - Site Report

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	DO mg/L	Flow ML/day	Temp ° C	EC µS/cm	Ecoli orgs/100 mL	Rainfall mm	% O2 Sat	pH pH Units	TPhos mg/L P	Turb NTU
06-Jan-98	8:20 AM	Grab	5	2.6	18.3	210				6.9		8.7
03-Feb-98	8:05 AM	Grab	2.5	2.8	21	247				6.5		8.8
01-Apr-98	9:30 AM	Grab	5.6	2.2	13	310				6.6		10
05-May-98	9:15 AM	Grab	8.3	23	12.7	152				6.4		16
02-Jun-98	9:20 AM	Grab	10	39	10.7	158				6.6		11
07-Jul-98	9:30 AM	Grab	10.2	614	9.1	97				6.2		50
04-Aug-98	9:30 AM	Grab	10	274	9.7	129				6.5		19
08-Sep-98	9:00 AM	Grab	10.5	77	11.3	107				6.8		15
06-Oct-98	8:55 AM	Grab	8.6		14.1	87				6.5		31
07-Apr-99	10:25 AM	Grab	8.2	207	13.7	87				6.3		50
05-May-99	12:00 PM	Grab				180				5.8		18
02-Jun-99	8:50 AM	Grab	9.6	228	10.2	80				6.5		28
01-Feb-00	8:30 AM	Grab	19.8	12.3	19.8	144				7		4.1
03-Apr-00	9:00 AM	Grab	6.8	15.2	17.5	148				7		9
02-May-00	8:55 AM	Grab	8	26	12.4	146				6.7		15
06-Jun-00	9:15 AM	Grab	11.2	230	7.3	86				7.2		24
04-Jul-00	9:05 AM	Grab	10.5	125	8.5	92				7		17
02-Aug-00	9:00 AM	Grab	10.5	178	7.2	90				7.1		17
03-Oct-00	8:00 AM	Grab	9.2	208.01	12.2	112				7		16
08-Nov-00	7:55 AM	Grab	7.6	190	16.8	94				6.8		17
05-Dec-00	7:50 AM	Grab	6	61	22.2	119				6.9		8.5
10-Jul-03	1:15 PM	Grab			8.7	175	236		86	6.8	<0.02	11
09-Oct-03	9:30 AM	Grab	10.2		13.4	194			98	7.2	0.14	54
12-Nov-03	10:15 AM	Grab	8.6		19.2	130	126		93	7.5	0.04	10
23-Dec-03	12:00 PM	Grab	8.24		21	92			95	7.5	0.22	43
30-Jan-04	11:00 AM	Grab	4.2		19.5	234	980		48.7	5.6	0.11	28
30-Jul-04	1:45 PM		9.2		8.8	134	308		86	7.1	0.07	33
19-Nov-04	11:30 AM	Grab	7.6		19	112	727	0	84	7.2		31
08-Apr-05	1:00 PM	Grab	8.6		18	152	179	7.3	93		0.04	20
22-Sep-06	3:45 AM	Grab	8.2		14.7	146		0	84	6.9		25
18-Dec-06	10:45 AM	Grab		no	21.9	250		0				21

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Waterwatch Victoria Application (WVA) - Site Report

SiteNo: XFA005 Tributary to Faithfull Ck US Geoff Lucas Pump Site

Parameters:

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	DO mg/L	Flow ML/day	Temp ° C	EC µS/cm	Ecoli orgs/100 mL	Rainfall mm	% O2 Sat	pH pH Units	TPhos mg/L P	Turb NTU
28-Nov-06	10:00 AM	Grab			17.3	80		0				<8
28-Nov-06	10:30 AM	Grab		low	26.7	90		0				80
28-Nov-06	2:00 PM	Grab		low	17.3	80		0				7
28-Jan-07	10:00 AM	Grab		low	17	90		0				14

SiteNo: XFA006 Tributary to Faithfull Ck at Geoff Lucas' pump site

Parameters:

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	DO mg/L	Flow ML/day	Temp ° C	EC µS/cm	Ecoli orgs/100 mL	Rainfall mm	% O2 Sat	pH pH Units	TPhos mg/L P	Turb NTU
28-Nov-06	12:30 PM	Grab		low	26.7	90		0				80
29-Dec-06	10:45 AM	Grab		low		80		0				35
26-Feb-07	10:00 AM	Grab		low	22	90		0				18
18-May-07	10:15 AM	Grab		fast	14	90		48				200
02-Jul-07	10:00 AM	Grab		fast	11	70						40
02-Jul-07	10:15 AM	Grab			9	100		10				23

SiteNo: XFA007 Tributary to Faithfull Ck at Harry's Ck Rd 1708 from Violet Town

Parameters:

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	DO mg/L	Flow ML/day	Temp ° C	EC µS/cm	Ecoli orgs/100 mL	Rainfall mm	% O2 Sat	pH pH Units	TPhos mg/L P	Turb NTU
28-Nov-06	10:00 AM	Grab		low	20.5	130		0				80
28-Nov-06	12:00 PM	Grab		low	20.5	130		0				80
29-Dec-06	10:00 AM			dry				0				
28-Jan-07	11:00 AM			dry								

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Waterwatch Victoria Application (WVA) - Site Report

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	DO mg/L	Flow ML/day	Temp ° C	EC µS/cm	Ecoli orgs/100 mL	Rainfall mm	% O2 Sat	pH pH Units	TPhos mg/L P	Turb NTU
26-Feb-07	10:00 AM			dry								
17-May-07	10:00 AM	Grab		fast	14	90		13				175
02-Jul-07	10:00 AM	Grab		steady	8	100		10				20

SiteNo: XFA008 Tributary to Faithfull Ck in Tom Long's cropping paddock

Parameters:

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	DO mg/L	Flow ML/day	Temp ° C	EC µS/cm	Ecoli orgs/100 mL	Rainfall mm	% O2 Sat	pH pH Units	TPhos mg/L P	Turb NTU
28-Nov-06	2:45 PM	Grab		LOW	24	110		0				16
28-Nov-06	11:00 AM	Grab		low	24	110		0				16
29-Dec-06	10:30 AM	Grab		low	22.8	90		0				<8

SiteNo: FAI005 Faithfull Creek in Tom Long's Mum's Paddock

Parameters:

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	DO mg/L	Flow ML/day	Temp ° C	EC µS/cm	Ecoli orgs/100 mL	Rainfall mm	% O2 Sat	pH pH Units	TPhos mg/L P	Turb NTU
28-Nov-06	10:45 AM	Grab		low	21.1	140		0				10
29-Dec-06	11:00 AM	Grab		low	22.7	150		0				11.5
09-May-07	3:30 PM			dry								

SiteNo: FAI010 Faithfull Creek at Balmattum

Parameters:

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	DO mg/L	Flow ML/day	Temp ° C	EC µS/cm	Ecoli orgs/100 mL	Rainfall mm	% O2 Sat	pH pH Units	TPhos mg/L P	Turb NTU
05-Aug-96	12:00 PM	Grab						10				58
13-Aug-96	12:00 PM	Grab						0				19
21-Aug-96	12:00 PM	Grab						0				18
28-Aug-96	12:00 PM	Grab						12				50

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Waterwatch Victoria Application (WVA) - Site Report

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	DO mg/L	Flow ML/day	Temp ° C	EC µS/cm	Ecoli orgs/100 mL	Rainfall mm	% O2 Sat	pH pH Units	TPhos mg/L P	Turb NTU
07-Sep-96	12:00 PM	Grab				100		2				11
25-Sep-96	12:00 PM	Grab				200		3				8
10-Oct-96	12:00 PM	Grab				100		0				15
21-Oct-96	12:00 PM	Grab				200		5				12
02-Nov-96	12:00 PM	Grab				200		0				12
10-Nov-96	12:00 PM	Grab				200		0				12
26-Nov-96	12:00 PM	Grab				200		0				11
15-Dec-96	12:00 PM	Grab				300		0				8
05-Jan-97	12:00 PM	Grab				300		0				11
01-Feb-97	12:00 PM	Grab				300		0				14
03-Mar-97	12:00 PM	Grab				200		2				11
22-Mar-97	12:00 PM	Grab				300		0				<8
05-Apr-97	12:00 PM	Grab				300		0				<8
12-Apr-97	12:00 PM	Grab				300		0				<8

SiteNo: FAI015 Faithfull Creek on McKernan's Road

Parameters:

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	DO mg/L	Flow ML/day	Temp ° C	EC µS/cm	Ecoli orgs/100 mL	Rainfall mm	% O2 Sat	pH pH Units	TPhos mg/L P	Turb NTU
31-May-07	1:00 PM	Grab	9.7	fast	10.2	243		32	89.3	7.3		45
13-Jun-07	1:50 PM	Grab	10.1	steady	9.9	260		2.2	89.1	7.3		17
11-Jul-07	1:00 PM	Grab	10.8	LOW	8.6	188		0.2	95	8.1		24
18-Jul-07	1:20 PM	Grab	11.6	RISIN	6.4	153		15.6	96.2	8.1		49
23-Sep-07	11:50 AM	Grab	10.3	LOW	14.6	210		0	103	7.4		15
22-Nov-07	1:00 PM	Grab	1.0	0	15.5	276		0	9.9	7.4		19.3

Waterwatch Victoria Application (WVA) - Site Report
SiteNo: SEV027 Seven Creeks at Moglonemby Bridge

Parameters:

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	DO mg/L	Flow ML/day	Temp ° C	EC µS/cm	Ecoli orgs/100 mL	Rainfall mm	% O2 Sat	pH pH Units	TPhos mg/L P	Turb NTU
06-Aug-03	4:00 PM	Grab	11.2		9.5	163		2	100	6.9	0.03	
12-Nov-03	10:05 AM	Grab	10.6		17.8	148			111	7.5	0.03	16
30-Jul-04	1:30 PM	Grab	9.4		9.1	138	387		89	7.2	0.09	50
24-Jan-07	7:10 PM	Grab		0		410						42
24-Jan-07	7:30 PM	Grab		0	22.3	410		10				42
16-Feb-07	9:45 AM	Grab		no		500		2				20
09-May-07	11:00 AM	Grab		dry				0				
12-Jun-07	4:45 PM	Grab		low	9.4	170				3		13
22-Jul-07	4:45 PM	Grab		good	7.8	149		0				18
31-Aug-07	9:55 AM	Grab	10	med	12.2	143		0	105	6.9		13
27-Oct-07	11:45 AM	Grab	7.1	low	19.3	175		10	79	7.3		12
22-Nov-07	12:10 PM	Grab	5.1	low	16.6	175		0	53	7.7		9.9
22-Dec-07	3:40 PM	Grab	5.6		20.9	159		58	65	7.7		347

SiteNo: SEV029 Seven Creeks at Miepol

Parameters:

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	DO mg/L	Flow ML/day	Temp ° C	EC µS/cm	Ecoli orgs/100 mL	Rainfall mm	% O2 Sat	pH pH Units	TPhos mg/L P	Turb NTU
17-Aug-95	9:00 AM	Grab			11.2	50		0			0.02	30
21-Sep-95	12:00 PM	Grab				70		0				30
25-Sep-95	12:00 PM	Grab						19				100
23-Oct-95	12:00 PM	Grab						28			0.09	125
22-Dec-95	10:00 AM	Grab				140					0.05	17
12-Feb-96	12:00 PM	Grab						20				55
29-Feb-96	4:00 PM	Grab				150		25				80

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<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	DO mg/L	Flow ML/day	Temp ° C	EC µS/cm	Ecoli orgs/100 mL	Rainfall mm	% O2 Sat	pH pH Units	TPhos mg/L P	Turb NTU
20-May-96	12:00 PM	Grab						0				20
24-Jun-96	12:00 PM	Grab						53				300
18-Jul-96	12:00 PM	Grab						6				35
22-Aug-96	12:00 PM	Grab										30
07-Oct-96	12:00 PM	Grab						25				80
05-Nov-96	12:00 PM	Grab						23.5				150
09-Dec-96	12:00 PM	Grab										35
20-Jan-97	12:00 PM	Grab						0				30
09-May-97	12:00 PM	Grab						35				80
08-Jul-98	12:00 PM	Grab				113		30			0.16	155
01-Jul-03	2:40 PM	Grab	9.5		10.8	156		34	87	6.7	0.15	85
06-Aug-03	4:15 PM	Grab	11.2		9.5	160		2	98	7	0.01	
12-Nov-03	10:00 AM	Grab	8.9		16.8	134	228		95	7.5	0.05	19
30-Jan-04	10:50 AM	Grab	2.1		18.4	259			22.4	5.4	0.15	22
30-Jul-04	12:15 PM	Grab	9.6		8.7	178	488		88	7.1	1203	68
19-Nov-04	11:00 AM	Grab	8.1		19	111	210	0	87	7.5		41
08-Apr-05	12:45 PM	Grab	8.5		19	176			93	7.3	0.10	38
22-Sep-06	12:20 PM	Grab	9.1		13.8	148		0	91	7.2	0.05	33
16-Mar-07	1:15 PM							0				
09-May-07	10:45 AM			0								
31-May-07	11:50 AM	Grab	9.6		10.3	189			86.7	7.0		68
22-Jun-07	1:15 PM	Grab	10.8	low	7.6	176		2.2	91	7.4		19
11-Jul-07	3:20 PM	Grab	10.5	high	8.6	140		1.2	91.2	7.9		46
18-Jul-07	1:45 PM	Grab	11.5	steady	6.6	155		8.2	94.1	9.1		32
31-Aug-07	9:35 AM	Grab	10.9	low	12.8	154		0	105	7.0		13
22-Oct-07	12:00 PM	Grab	7.7	low	17.9	176		0	83	7.5		27
22-Nov-07	11:50 AM	Grab	6.0	low	15.9	162		0	62	7.8		29
22-Dec-07	3:20 PM	Grab	4.8		21.2	81		40	81	8.2		106

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Waterwatch Victoria Application (WVA) - Site Report

SiteNo: SEV032 Seven Creeks on Central Kialla Road. East Branch

Parameters:

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	<u>DO</u> mg/L	<u>Flow</u> ML/day	<u>Temp</u> ° C	<u>EC</u> µS/cm	<u>Ecoli</u> orgs/100 mL	<u>Rainfall</u> mm	<u>% O2 Sat</u>	<u>pH</u> pH Units	<u>TPhos</u> mg/L P	<u>Turb</u> NTU
17-Aug-95	9:30 AM	Grab			11.5	40		0			0.02	32
21-Sep-95	12:00 PM	Grab				120		0				50
25-Sep-95	12:00 PM	Grab						19				100
23-Oct-95	9:30 AM	Grab						28			0.16	80
04-Jan-96	12:00 PM	Grab						26				75
12-Feb-96	12:00 PM	Grab		5				20				100
20-May-96	12:00 PM	Grab						0				35
24-Jun-96	12:00 PM	Grab						53				400
18-Jul-96	12:00 PM	Grab						6				35
22-Aug-96	12:00 PM	Grab										35
07-Oct-96	12:00 PM	Grab						25				90
05-Nov-96	12:00 PM	Grab						23.5				200
09-Dec-96	12:00 PM	Grab										40
20-Jan-97	12:00 PM	Grab						0				60
09-May-97	12:00 PM	Grab						35				90
08-Jul-98	12:00 PM	Grab				126		30			0.19	257
24-Sep-98	12:00 PM	Grab						40				320
20-Oct-98	12:00 PM	Grab				110				6.1	0.18	30
17-Nov-98	12:00 PM	Grab				120				6.8	0.02	68
01-Jul-03	1:15 PM	Grab	9.6		11	178		34	88	6.8	0.2	110
10-Jul-03	3:45 PM	Grab			10.5	177	261		86	6.9	0.09	18
01-Aug-03	11:30 AM	Grab						2.5				50
06-Aug-03	4:30 PM	Grab	10.8		10.1	162		2	97	7	0.03	
15-Aug-03	10:30 AM	Grab						13				80
20-Sep-03	11:10 AM	Grab						4				20
03-Oct-03	4:40 PM	Grab						27				60
24-Oct-03	4:00 PM	Grab						9				25

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<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	DO mg/L	Flow ML/day	Temp ° C	EC µS/cm	Ecoli orgs/100 mL	Rainfall mm	% O2 Sat	pH pH Units	TPhos mg/L P	Turb NTU
12-Nov-03	9:15 AM	Grab	6.7		15.2	160			73	7.4	0.07	48
22-Dec-03	11:10 AM	Grab						27				90
30-Jul-04	11:35 AM		10.2		8.7	140	326		93	7.1	0.09	63
17-Aug-04	10:30 AM					116					0.04	37
07-Nov-04	9:40 AM							62				200
14-Nov-04	9:40 AM	Grab						18				60
19-Nov-04	10:45 AM	Grab	7.8		19	110	920	0	85	7.5		45
22-Sep-06	12:00 PM	Grab	8.5		14.7	154		0	86	7.1	0.02	65

SiteNo: SEV033 Seven Creeks on Karamomas Road at Arcadia

Parameters:

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	DO mg/L	Flow ML/day	Temp ° C	EC µS/cm	Ecoli orgs/100 mL	Rainfall mm	% O2 Sat	pH pH Units	TPhos mg/L P	Turb NTU
17-Aug-95	9:30 AM	Grab			10.9	70		0		7.3	0.03	34
21-Sep-95	12:00 PM	Grab				80		0				40
25-Sep-95	12:00 PM	Grab						19				100
23-Oct-95	12:00 PM	Grab						25			0.22	100
25-Oct-95	12:00 PM	Grab						5.5				150
26-Oct-95	12:00 PM	Grab										55
22-Dec-95	9:30 AM	Grab				130					0.06	32
04-Jan-96	12:00 PM	Grab						26				75
12-Feb-96	12:00 PM	Grab						20				55
29-Feb-96	5:00 PM	Grab				160		25				100
20-May-96	12:00 PM	Grab						0				28
24-Jun-96	12:00 PM	Grab						53				400
25-Jun-96	12:00 PM	Grab										300
18-Jul-96	12:00 PM	Grab						6				30
22-Aug-96	12:00 PM	Grab										35
07-Oct-96	12:00 PM	Grab						25				90
05-Nov-96	12:00 PM	Grab						23.5				200
09-Dec-96	12:00 PM	Grab										35

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<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	DO mg/L	Flow ML/day	Temp ° C	EC µS/cm	Ecoli orgs/100 mL	Rainfall mm	% O2 Sat	pH pH Units	TPhos mg/L P	Turb NTU
20-Jan-97	12:00 PM	Grab						0				45
09-May-97	12:00 PM	Grab						35				85
08-Jul-98	12:00 PM	Grab				127		30			0.19	246
24-Sep-98	12:00 PM	Grab						40				300
20-Oct-98	12:00 PM	Grab				110				6.1	0.06	30
17-Nov-98	12:00 PM	Grab				120				6.8	0.02	60
01-Jul-03	12:00 PM	Grab	11		11.9	170		34	102	6.8		58
01-Aug-03	11:30 AM	Grab						2.5				55
15-Aug-03	10:30 AM	Grab						13				80
25-Aug-03	11:30 AM	Grab						31				150
20-Sep-03	11:00 AM	Grab						4				20
03-Oct-03	2:30 PM	Grab						27				60
24-Oct-03	4:00 PM	Grab						9				25
12-Nov-03	9:30 AM	Grab	9.2		18	159	980		100	7.3	0.04	23
22-Dec-03	11:00 AM	Grab						27				60
30-Jan-04	10:00 AM	Grab	4.5		19.3	245			47.2	6.8	0.1	65
30-Jul-04	11:35 AM		9.7		8.6	124	248		91	7.2	0.09	70
17-Aug-04	10:30 AM					127					0.04	36
12-Sep-04	12:30 PM							15.5				150
07-Nov-04	9:30 AM							62				250
14-Nov-04	9:30 AM	Grab						18				60
19-Nov-04	10:50 AM	Grab	8.6		19	109		0	94	7.5		43
08-Apr-05	12:30 PM	Grab	8.6		18	133			92	7.3		48
22-Sep-06	12:10 PM	Grab	9.1		14.3	150		0	92	7.1	0.04	61
16-Mar-07	1:05 PM							0				
31-May-07	10:40 AM	Grab	9.5	rising	10.7	207		14	85.2	7.3		32
22-Jun-07	2:30 PM	Grab	11.5	steady	8.7	176		2.2	99.4	7.4		20
15-Jul-07	2:10 PM	Grab	10.7	high	8.6	135		1.2	94.8	8.1		62
18-Jul-07	11:30 AM	Grab	11.9	fast	6.3	157		8.2	96.4	7.9		27
22-Oct-07	11:15 AM	Grab	6.7	low	18.2	177		0	70	7.4		35
21-Nov-07	10:45 AM	Grab	4.8		20.9	158		0	56	7.3		55
22-Nov-07	10:35 AM	Grab	5.2	low	16	164		2.8	54	7.5		50
22-Dec-07	1:15 PM	Grab	4.8		21.5	82		40	56	7.3		397

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SiteNo: SEV035 Seven Creeks on Mitchell Road at Arcadia

			<u>Parameters:</u>									
<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	DO mg/L	Flow ML/day	Temp ° C	EC µS/cm	Ecoli orgs/100 mL	Rainfall mm	% O2 Sat	pH pH Units	TPhos mg/L P	Turb NTU
12-Jan-95	12:00 PM	Grab			29.4	140		0		7.3	0.2	68
01-Feb-95	12:00 PM	Grab				170						170
16-Feb-95	12:00 PM	Grab			22.8	220				7.3	0.08	150
22-Mar-95	9:00 AM	Grab			17.3	90		0		7.2	0.04	72
01-May-95	12:00 PM	Grab			15.2	180		11			0.22	95
29-May-95	12:00 PM	Grab			10.8	190		30				130
15-Jun-95	9:00 AM	Grab			10.6	130		80				82
26-Jun-95	9:00 AM	Grab				90				7.7	0.03	41
02-Aug-95	12:00 PM	Grab			8.8	90		10		6.6	0.08	55
18-Aug-95	9:00 AM	Grab			11.3	90						51
29-Aug-95	10:00 AM	Grab			10.8	100				7.8	0.08	39
05-Sep-95	9:00 AM	Grab				100		10			0.02	32
19-Sep-95	9:00 AM	Grab				100					0.02	47
30-Oct-95	9:00 AM	Grab				210					0.06	70
22-Dec-95	11:30 AM	Grab				170					0.24	63
04-Jan-96	12:00 PM	Grab						26				90
15-Jan-96	5:00 PM	Grab			26	300					0.18	36
12-Feb-96	12:00 PM	Grab						20				70
15-Feb-96	10:00 AM	Grab				200					0.08	45
29-Feb-96	5:00 PM	Grab				130		25				85
20-Mar-96	10:30 AM	Grab			16	120		10		7.1	0.1	75
23-May-96	10:45 AM	Grab			11.7	150		0		6.8	0.15	40
20-Jun-96	10:00 AM	Grab			10	150		5		6.3	0.09	80
24-Jun-96	12:00 PM	Grab						53				350
18-Jul-96	12:00 PM	Grab						6				50
24-Jul-96	9:40 AM	Grab			10.6	100		15		6.5	0.18	65

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Waterwatch Victoria Application (WVA) - Site Report

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	DO mg/L	Flow ML/day	Temp ° C	EC µS/cm	Ecoli orgs/100 mL	Rainfall mm	% O2 Sat	pH pH Units	TPhos mg/L P	Turb NTU
06-Aug-96	12:00 PM	Grab				70				6.4		70
15-Aug-96	10:20 AM	Grab			11.2	110		8		6.7		60
21-Aug-96	9:50 AM	Grab				180				6.5	0.16	55
22-Aug-96	12:00 PM	Grab										60
17-Sep-96	11:00 AM	Grab			13.6	170		0		7.2	0.12	65
07-Oct-96	12:00 PM	Grab						25				90
24-Oct-96	12:00 PM	Grab				130		0		6.6	0.1	43
31-Oct-96	9:00 AM	Grab						0				55
05-Nov-96	12:00 PM	Grab						23.5				200
20-Nov-96	10:30 AM	Grab			17.5	150		0		6.3	0.12	110
09-Dec-96	12:00 PM	Grab										60
18-Dec-96	12:00 PM	Grab				180		0			0.06	90
20-Jan-97	12:00 PM	Grab						0				60
23-Jan-97	12:00 PM	Grab			22.8	190		4		7	0.14	110
18-Feb-97	12:00 PM	Grab				180		0			0.2	36
19-Mar-97	12:00 PM	Grab				160		0		6.8	0.14	55
16-Apr-97	11:00 AM	Grab						0			0.15	80
09-May-97	12:00 PM	Grab						35				90
13-May-97	11:00 AM	Grab					100				0.074	
23-May-97	12:00 PM	Grab			12.7	170					0.03	58
16-Jul-97	10:30 AM	Grab				160		0		7.3	0.07	29
20-Aug-97	11:30 AM	Grab				160		0		6.6	0.12	60
17-Sep-97	12:50 PM	Grab				130				6.6	0.06	31
22-Oct-97	11:30 AM	Grab				140		0		7	0.09	43
19-Nov-97	12:30 PM	Grab				110		0		6.8	0.16	70
18-Dec-97	12:00 PM	Grab				200		0		6.8	0.18	62
22-Jan-98	8:50 AM	Grab			22	150		0		7.4	0.2	70
18-Feb-98	10:00 AM	Grab				110		10		6	0.18	55
19-Mar-98	8:25 AM	Grab				110				7.28	0.7	65
15-Apr-98	10:00 AM	Grab				100		20		7	0.23	57
21-May-98	9:30 AM	Grab				180		0		6	0.05	51
08-Jul-98	12:00 PM	Grab				186		30			0.21	312
03-Aug-98	12:00 PM	Grab				160				6.6	0.25	160

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<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	DO mg/L	Flow ML/day	Temp ° C	EC µS/cm	Ecoli orgs/100 mL	Rainfall mm	% O2 Sat	pH pH Units	TPhos mg/L P	Turb NTU
19-Aug-98	12:00 PM	Grab				130					0.08	40
16-Sep-98	12:00 PM	Grab				110				6	0.28	79
24-Sep-98	12:00 PM	Grab						40				300
20-Oct-98	12:00 PM	Grab				110				6	0.16	40
17-Nov-98	12:00 PM	Grab				180				6.2	0.35	132
19-Nov-98	9:45 AM	Grab				160				7.1	0.21	136
16-Dec-98	12:00 PM	Grab				140					0.21	60
24-Mar-99	12:00 PM	Grab				110		0		6.6	0.2	64
21-Apr-99	12:00 PM	Grab				170				7	0.14	89
05-May-99	12:00 PM	Grab				160				7.2		77
19-May-99	11:10 AM	Grab				150				7.1	0.07	41
16-Jun-99	9:15 AM	Grab				120				10.6		246
20-Jul-99	9:45 AM	Grab				140					0.33	43
24-Sep-99	9:40 AM	Grab			15	110		0		7.2		62
30-Nov-99	12:00 PM	Grab			22.4	150		0				125
20-Dec-99	9:30 AM	Grab			17	160		0		7.3	0.14	88
16-Feb-00	9:35 AM	Grab			21.1	190		0		6.9	0.18	58
23-Mar-00	8:45 AM	Grab			17.9	200		0		7	0.25	74
19-Apr-00	11:10 AM	Grab				190		0			0.13	84
17-May-00	9:35 AM	Grab			11.8	150					0.12	67
22-Jun-00	12:00 PM	Grab				130		10			0.08	64
26-Jul-00	9:45 AM	Grab			8.6	200				7.1	0.12	118
12-Sep-00	2:35 PM	Grab			12.6	160				7.3	0.15	
25-Oct-00	8:45 AM	Grab			17.6	130		50		7.3	0.09	120
11-Dec-00	12:00 PM	Grab			23.5	150		0		6.7	0.15	46
08-Feb-01	8:45 AM	Grab			25.3	150				6.95		110
18-Apr-01	8:55 AM	Grab			15.5	150				6.6	0.23	72
24-May-01	9:50 AM	Grab			9.5	140				7	0.08	34
27-Jun-01	2:00 PM	Grab			9	340				7	0.12	131
26-Jul-01	3:25 PM	Grab			9.8	151				7.2	0.09	64.3
26-Sep-01	9:30 AM	Grab			14.5	146				6.4	0.11	76
13-Dec-01	12:00 PM	Grab			17.3	159				6.7	0.08	56
23-Jan-02	8:00 AM	Grab			20.3	148		20		6.9	0.18	77

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<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	DO mg/L	Flow ML/day	Temp ° C	EC µS/cm	Ecoli orgs/100 mL	Rainfall mm	% O2 Sat	pH pH Units	TPhos mg/L P	Turb NTU
01-May-02	12:00 PM	Grab			13.3	137					0.08	60
31-May-02	12:00 PM	Grab				190					0.09	38
14-Aug-02	8:00 AM	Grab			10	181				7.3	0.08	50
30-Sep-02	9:00 AM	Grab			12	184					0.18	80
23-Dec-02	9:00 AM	Grab			20	175					0.14	112
31-Jan-03	9:00 AM	Grab			19	96					0.1	198
30-Apr-03	3:40 PM	Grab			17	89		15			0.1	74
28-May-03	12:00 PM	Grab			10.1	185				6.9	0.07	44
30-Jun-03	1:10 PM	Grab	9.2		11	182		28	85	6.5	0.12	48
10-Jul-03	4:00 PM	Grab			10.2	190	461		78	6.8	0.16	31
30-Jul-03	10:00 AM	Grab	10.4		8	124			89	7	0.14	83
12-Nov-03	8:30 AM	Grab	8.5		16.8	172			81	7.1	0.09	26
23-Dec-03	12:00 PM	Grab	6.7		18.9	178			71.7	7.2	0.26	77
30-Jan-04	9:40 AM	Grab	3.8		20.1	89	185		41.3	6.6	0.12	119
18-Mar-04	8:45 AM				15.8	78				7.1	0.08	151
21-Apr-04	10:50 AM				14.5	71			99	7.5	0.07	93
24-May-04	11:30 AM	Grab			14	142		10		7.1	0.11	61
22-Jun-04	9:45 AM				11	170			100	7.5	0.1	71
28-Jul-04	10:00 AM				9.7	181			88	7	0.13	110
30-Jul-04	11:30 AM				9.6	218	308		88	7.1	0.15	114
17-Aug-04	10:00 AM					128					0.07	27
15-Sep-04	1:00 PM				8.6	98		1	83	6.9	0.15	107
14-Oct-04	10:00 AM				7.2	138		0	78	7.3	0.11	43
17-Nov-04	3:30 PM	Grab			7.1	133		0	83	7.1	0.12	97
17-Dec-04	9:30 AM	Grab			6.7	145			73	7	0.17	157
16-Feb-05	11:30 AM	Grab			5.6	21	162	125	63	7.0	0.10	78
09-Mar-05	11:45 AM	Grab			8.8	19	66		95	7.2	0.03	24
09-Mar-05	11:30 AM	Grab			5.8	19	178		63	7.1	0.02	80
16-Mar-05	1:00 PM	Grab			4.7	21	183		55	7.2		64
08-Apr-05	12:15 PM	Grab			7.9	21	133	96	90	7.3	0.10	93
22-Apr-05	10:35 AM	Grab			6.5	15	168	0	65	7.1	0.10	89
25-May-05	9:30 AM	Grab			8.2	12	150	2	76	7.4	0.08	61
15-Jun-05	9:50 AM	Grab			9.7	11	121	0	86	7.1	0.17	129

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<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	DO mg/L	Flow ML/day	Temp ° C	EC µS/cm	Ecoli orgs/100 mL	Rainfall mm	% O2 Sat	pH pH Units	TPhos mg/L P	Turb NTU
21-Jul-05	9:30 AM	Grab	10.9		7	172		0	89		0.14	84
17-Aug-05	9:30 AM	Grab	10.9		8	129		0	92		0.09	82
21-Sep-05	11:30 AM	Grab	9.1		13.1	118		0	87	7.0	0.09	62
26-Oct-05	9:00 AM	Grab				135		12		6.8	0.13	84
16-Nov-05	11:00 AM	Grab	6.2		18	125		0	66	6.7	0.14	77
08-Feb-06	8:45 AM	Grab	4.4		18	185		0	48	7.2	0.14	53
15-Mar-06	9:40 AM	Grab	2.9		18	172		0	29	6.9	0.13	64
26-Apr-06	10:50 AM	Grab			10	138				6.8	0.08	68
17-May-06	10:15 AM	Grab	8.6		12	163		0	79	7	0.06	55
23-Aug-06	9:40 AM	Grab			10	151				6.6	0.07	67
22-Sep-06	11:30 AM	Grab	6.9		14.5	167		0	69	6.9		111
30-Sep-06	12:30 PM	Grab	7.4		18.2	169		0	79	6.7	0.11	106
30-Sep-06	12:30 PM	Grab	7.4		18.2	169		0	79	6.7	0.11	106
15-Nov-06	10:50 AM	Grab	5.1		16.5	193		2	54	6.8	0.11	131
20-Dec-06	9:00 AM	Grab	4.3		21.0	174		0	45	6.9	0.10	121
17-Jan-07	10:55 AM	Grab	4.5		24.9	186		0	55	7.3	0.12	98
21-Feb-07	10:20 AM	Grab	3.5		23.8	176		0	42	7.0	0.12	78
16-Mar-07	12:00 PM	Grab	7	0	24.7	146		0	88	7.2		88
21-Mar-07	10:00 AM	Grab	4.7		19.3	132		10	51	6.9	0.09	106
18-Apr-07	10:55 AM	Grab	6.0		18.2	114		0	64	6.9	0.11	100
09-May-07	9:40 AM	Grab	6.0	steady	14.5	85		0	59	8.1	0.07	109
31-May-07	10:30 AM	Grab	8.1	steady	10.9	203		14	73.3	6.6	0.1	40
22-Jun-07	12:30 PM	Grab	9.5	steady	7.5	189		2.2	79.8	7.9	0.05	30
11-Jul-07	1:30 PM	Grab	9.6	high	8.7	105		1.2	83.5	7.7	0.13	105
18-Jul-07	11:05 AM	Grab	10.5	steady	6.6	157		8.2	85.8	7.9	0.08	47
18-Jul-07	9:40 AM	Grab	10.2		6.2	146		7	82	6.6		39
31-Aug-07	8:30 AM	Grab	10.1	steady	13.1	174		0	99	6.8	0.06	20
22-Oct-07	11:00 AM	Grab	0	low	18.3	190		0	55	7.3	0.08	40
21-Nov-07	10:20 AM	Grab	2.7		21.7	194		0	31	7.1	0.20	57
22-Nov-07	10:10 AM	Grab	3.4	med	17.3	204		1.6	36	7.7		67
22-Dec-07	12:50 PM	Grab	7.5		25	121		40	93	7.8		99

Report Date: 06 Feb 2008Field60

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Waterwatch Victoria Application (WVA) - Site Report

SiteNo: SEV040 Seven Creeks at the confluence with the Goulburn River

Parameters:

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	DO mg/L	Flow ML/day	Temp ° C	EC µS/cm	Ecoli orgs/100 mL	Rainfall mm	% O2 Sat	pH pH Units	TPhos mg/L P	Turb NTU
17-Apr-96	5:30 PM	Grab										100
03-Sep-96	11:15 AM	Grab				100		4		6.5		58
16-Mar-07	11:30 AM	Grab	7	0	24.1	245		0	88	6.9		336

Appendix B

Castle, Honeysuckle and Warrenbayne Creeks Report

For Samples from 01 Jan 1995 to 11 Aug 2008

SiteNo: CAS005 Castle Creek on Mansfield Rd

Parameters:

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	Flow ML/day	pH pH Units	Turb NTU	Temp ° C	TPhos mg/L P	Rainfall mm	EC µS/cm	DO mg/L
22-Sep-06	3:50 PM	Grab		6.5	10	15.4	<0.02	0	380	5.1

SiteNo: CAS010 Castle Creek at Euroa

Parameters:

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	Flow ML/day	pH pH Units	Turb NTU	Temp ° C	TPhos mg/L P	Rainfall mm	EC µS/cm	DO mg/L
08-Jul-98	12:00 PM	Grab			36		0.07	30	319	
07-Aug-98	12:00 PM	Grab			18		0.04		270	
05-May-99	12:00 PM	Grab		5.8	5				360	
22-Jun-00	5:00 PM	Grab			69		0.08	10	330	
15-Sep-00	12:00 PM	Grab		7.4	29		0.07		170	
11-Dec-00	12:00 PM	Grab		7.16	8	26.9	0.04	0	270	
01-Jul-03	4:00 PM	Grab		6.8	33	10.9	0.06	34	335	9.7
12-Nov-03	10:15 AM	Grab		7.4	5.4	16.9	0.02	0	384	9.9
23-Dec-03	12:00 PM	Grab		7.2	17	25.5	0.05		366	8.2
19-Nov-04	11:30 AM	Grab		7.2	9	19		0	321	7.5
08-Apr-05	12:00 PM	Grab	0							
09-May-07	11:10 AM		dry					0		
31-May-07	12:45 PM		Dry					31.6		
13-Jun-07	1:30 PM	Grab		7.2	16	8.9		2.2	410	8
15-Jul-07	12:45 PM	Grab	med	7.6	13	7.2		0.2	410	10.6
18-Jul-07	1:05 PM	Grab	rising	7.5	50	6		15.6	364	11.5
31-Aug-07	10:00 AM	Grab	med	7.0	6.7	12.2		0	437	10.1
23-Sep-07	11:30 AM	Grab	MED	7.4	5.5	11.6		0	452	8.6
27-Oct-07	11:00 AM	Grab	Stagna	7.2	21	19.6		10	503	6.0
22-Nov-07	12:20 PM	Grab	Stagna	7.4	11	16.2		0	578	4.5
22-Dec-07	3:45 PM	Grab		7.5	226	21.1		40	260	5.4
01-Apr-08	11:30 AM		dry					0		
01-May-08	2:30 PM		dry					0		
23-Jul-08	4:00 PM	Grab	med	7.2	33	8.9		20	313	10

Report Date: 11 Aug 2008Field60:

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Waterwatch Victoria Application (WVA) - Site Report

SiteNo: CAS015 **Castle Creek at Violet Town Murchison Road**

			<u>Parameters:</u>							
<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	Flow ML/day	pH pH Units	Turb NTU	Temp ° C	TPhos mg/L P	Rainfall mm	EC µS/cm	DO mg/L
17-Aug-95	12:00 PM	Grab			25	11.5	0.06	0	120	
21-Sep-95	12:00 PM	Grab			35				210	
25-Sep-95	12:00 PM	Grab			60			19		
23-Oct-95	12:00 PM	Grab			60		0.24	28		
04-Jan-96	12:00 PM	Grab	0							
12-Feb-96	12:00 PM	Grab	0							
29-Feb-96	4:00 PM	Grab						25		
20-May-96	12:00 PM	Grab			0			0		
24-Jun-96	12:00 PM	Grab			180			53		
18-Jul-96	12:00 PM	Grab			25			6		
22-Aug-96	12:00 PM	Grab			30					
07-Oct-96	12:00 PM	Grab			50			25		
05-Nov-96	12:00 PM	Grab			100			23.5		
09-Dec-96	12:00 PM	Grab			70					
20-Jan-97	12:00 PM	Grab	0							
09-May-97	12:00 PM	Grab	0					35		
01-Jul-03	2:30 PM	Grab		6.7	92	10.9	0.16	34	82	8.5
09-May-07	10:15 AM		dry					0		
09-May-07	10:30 AM		dry							
31-May-07	12:00 PM		dry					14		
11-Jul-07	2:25 PM	Grab	med	7.9	91	8.5		1.2	153	8.1
18-Jul-07	12:30 PM	Grab	steady	7.1	43	6.7		8.2	188	8.6
31-Aug-07	9:15 AM	Grab	0	6.7	9.5	12.6	0.06	0	309	8.4
19-Sep-07	11:00 AM	Grab	0	6.8	6.4	11.4	0.09	0	432	5.3
22-Nov-07	10:50 AM		dry					1.6		
22-Dec-07	1:20 PM	Grab	stagna					40		
23-Jan-08	12:15 PM	Grab	med	7.7	71	22.3		50	104	2.5
01-Apr-08	10:05 AM	Grab	stagna					0		

Report Date: 11 Aug 2008Field60:

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Waterwatch Victoria Application (WVA) - Site Report

Date: Time: Sample Type:
 01-May-08 2:00 PM
 23-Jul-08 2:20 PM Grab

Flow ML/day	pH pH Units	Turb NTU	Temp ° C	TPhos mg/L P	Rainfall mm	EC µS/cm	DO mg/L
dry					0		
stagna					13		

SiteNo: **CAS016** **Castle Creek at Arcadia**

Parameters:

Date: Time: Sample Type:

Date	Time	Sample Type	Flow ML/day	pH pH Units	Turb NTU	Temp ° C	TPhos mg/L P	Rainfall mm	EC µS/cm	DO mg/L
08-Jul-97	11:40 AM	Grab	0							
13-Aug-97	12:35 PM	Grab	20	6.9	41	9.2			250	8.5
09-Sep-97	1:45 PM	Grab	184	6.7	100	12.4			97	8
14-Oct-97	1:20 PM	Grab	2.6	6.7	36	15.5			275	3.8
11-Nov-97	11:40 AM	Grab		7	44	23.6			320	6.2
09-Dec-97	1:15 PM	Grab	0							
23-Feb-98	12:00 PM	Grab	0							
07-Apr-98	12:45 PM	Grab	0							
13-May-98	1:55 PM	Grab	0							
10-Jun-98	1:25 PM	Grab	0							
15-Jul-98	2:40 PM	Grab	16.8	6.3	65	7.1			223	8.2
12-Aug-98	1:30 PM	Grab	20.6	6.4	21	11.3			250	7.4
15-Sep-98	1:25 PM	Grab	14.6	6.5	14	13.3			248	6.6
14-Oct-98	1:50 PM	Grab		6.5	51	13.8			141	6
09-Dec-98	12:40 PM	Grab	1.4	7.2	54	22.4			240	5
21-Apr-99	1:45 PM	Grab	0							
05-May-99	12:00 PM	Grab		7.4	73				440	
10-Jun-99	2:00 PM	Grab	0							
14-Jul-99	1:15 PM	Grab	9.6	6.9	17	10.7			253	7
15-Sep-99	1:30 PM	Grab	1330	6.9	27	12.9			168	7.4
12-Oct-99	1:50 PM	Grab	11.3	6.8	45	17.5			230	3.4
10-Nov-99	12:10 PM	Grab	30.5	7.2	42	16			242	6
07-Dec-99	12:30 PM	Grab	0.5	7.1	36	22.9			290	4.6
01-Feb-00	8:30 AM	Grab	0							
15-Jun-00	3:15 PM	Grab	0							
12-Jul-00	1:10 PM	Grab	38.6	6.7	21	8.1			270	8.4

Report Date: 11 Aug 2008Field60:

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Waterwatch Victoria Application (WVA) - Site Report

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	Flow ML/day	pH pH Units	Turb NTU	Temp ° C	TPhos mg/L P	Rainfall mm	EC µS/cm	DO mg/L
15-Aug-00	12:55 PM	Grab	25	7.2	14	10.5			223	8
11-Oct-00	12:40 PM	Grab	21	7.2	30	15			220	6
16-Nov-00	12:10 PM	Grab	254	6.7	23	21			137	4.2

SiteNo: CAS020 **Castle Creek on McKindreys Lane**

Parameters:

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	Flow ML/day	pH pH Units	Turb NTU	Temp ° C	TPhos mg/L P	Rainfall mm	EC µS/cm	DO mg/L
17-Dec-04	10:15 AM	Grab	0	6.9	41	19.1	0.28		326	3.2
16-Feb-05	12:00 PM	Grab		6.9	60	18.5	0.21	125	210	2.5
17-Aug-05	9:50 AM	Grab			39	8.8	0.08	0	246	9.3
21-Sep-05	12:00 PM	Grab		7.1	2	13	0.09	0	238	7.8
26-Oct-05	9:20 AM	Grab		6.9	63	17	0.16	40	241	5.4
16-Nov-05	11:30 AM	Grab		6.6	78	18	0.3	0	165	3.3
08-Feb-06	9:40 AM	Grab	0					0		
15-Mar-06	10:10 AM	Grab	0					0		
17-May-06	10:50 AM	Grab	0							
23-Aug-06	10:10 AM	Grab		6.9	20	11	0.02	0	93	
30-Sep-06	1:10 PM		0							
30-Sep-06	1:10 PM	Grab	dry							
15-Nov-06	11:10 AM		0							
20-Dec-06	9:30 AM		0							
17-Jan-07	11:15 AM	Grab	dry					0		
21-Feb-07	10:35 AM	Grab	dry							
21-Mar-07	10:30 AM		dry					10		
18-Apr-07	11:25 AM	Grab	dry					0		
09-May-07	10:00 AM		dry							
31-May-07	11:10 AM		dry					14		
22-Jun-07	2:00 PM	Grab	stagna	7.4	66	7.7	0.17		195	6.5
11-Jul-07	2:45 PM	Grab	med	8.2	91	8.4	0.1	1.2	148	8.3
18-Jul-07	12:00 PM	Grab	steady	7.3	53	6.9	0.13	8.2	188	7.9
18-Jul-07	10:15 AM	Grab		6.2	44	6.4		7	179	7.4
31-Aug-07	8:55 AM	Grab	med	7.1	15	13.1	0.10	0	156	11.2

Report Date: 11 Aug 2008Field60:

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Waterwatch Victoria Application (WVA) - Site Report

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	<u>Flow</u> ML/day	<u>pH</u> pH Units	<u>Turb</u> NTU	<u>Temp</u> ° C	<u>TPhos</u> mg/L P	<u>Rainfall</u> mm	<u>EC</u> µS/cm	<u>DO</u> mg/L
19-Sep-07	11:00 AM	Grab	stagna	6.8	6.4	11.4	0.09	0	432	5.3
22-Oct-07	11:30 AM	Grab	stagna	7.1	12	17.3	0.27	0	507	6.0
21-Nov-07	10:45 AM	Grab	dry					0		
22-Nov-07	11:30 AM	Grab	stagna	7.4	11.4	14.5		1.6	631	2.3
22-Dec-07	1:50 PM	Grab	stagna	6.9	21	21	0.32	40	559	3.2
23-Jan-08	11:25 AM	Grab		7.6	93	21.1	0.38	0	21	2.0
30-Jan-08	9:10 AM	Grab		6.4	64	20.8	0.33	0	140	2.4
19-Mar-08	10:00 AM	Grab	stagna	7.1	39	16.9	0.53	0	243	0.9
01-Apr-08	10:20 AM	Grab	0	7.2	45	13.9	0.06	0	224	4.3
16-Apr-08	10:40 AM		dry					0		
01-May-08	1:30 PM		dry					0		
21-May-08	10:00 AM		dry					0		
18-Jun-08	10:00 AM		dry					0		
18-Jul-08	10:15 AM	Grab		6.2	44	6.4		7	179	7.4
23-Jul-08	2:20 PM		dry					13		

SiteNo: CAS022 **Castle Creek at GV Highway**

Parameters:

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	<u>Flow</u> ML/day	<u>pH</u> pH Units	<u>Turb</u> NTU	<u>Temp</u> ° C	<u>TPhos</u> mg/L P	<u>Rainfall</u> mm	<u>EC</u> µS/cm	<u>DO</u> mg/L
16-Feb-95	9:00 AM	Grab		7.3	32	21.7			410	
01-May-95	12:00 PM	Grab			75	15.5		11	270	
29-May-95	12:00 PM	Grab			85	11.2		30	170	
15-Jun-95	12:00 PM	Grab			55	10.9		80	120	
26-Jun-95	9:00 AM	Grab		7.5	21		0.08		140	
04-Jan-96	12:00 PM	Grab	0							
24-Jun-96	12:00 PM	Grab			180			53		
05-Nov-96	12:00 PM	Grab						23.5		
01-Aug-98	12:00 PM	Grab		6.1	140		0.28		160	
03-Aug-98	12:00 PM	Grab			183		0.3		150	
19-Aug-98	10:30 AM	Grab			46		0.19	0	180	
16-Sep-98	12:00 PM	Grab		6.5	29		0.19		330	
24-Sep-98	12:00 PM	Grab			60			40		

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Waterwatch Victoria Application (WVA) - Site Report

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	Flow ML/day	pH pH Units	Turb NTU	Temp ° C	TPhos mg/L P	Rainfall mm	EC µS/cm	DO mg/L
20-Oct-98	12:00 PM	Grab		6.1	35		0.4		200	
17-Nov-98	12:00 PM	Grab		6.3	64		0.28		150	
24-Sep-99	10:00 AM	Grab		6.8	43	15.2		0	250	
30-Nov-99	12:00 PM	Grab			91	21.6		0	300	
20-Dec-99	10:00 AM	Grab	0	7.4	100	12.7	0.39	0	433	
16-Feb-00	9:00 AM	Grab	0					0		
23-Mar-00	10:30 AM	Grab	0					0		
19-Apr-00	11:40 AM	Grab	0					0		
22-Jun-00	12:00 PM	Grab	0							
26-Jul-00	10:15 AM	Grab		6.8	98	8.9	0.22		180	
12-Sep-00	3:15 PM	Grab		6.7		11.8	0.22		170	
12-Oct-00	12:00 PM	Grab			37		0.21		230	
25-Oct-00	10:00 AM	Grab		7.2	107	17.5	0.21	50	150	
11-Dec-00	12:00 PM	Grab		6.7	12	22.6	0.36	0	250	
17-Jan-01	12:00 PM	Grab	0							
08-Feb-01	9:15 AM	Grab		7.3	59	23.9			220	
18-Apr-01	12:00 PM	Grab	0							
24-May-01	12:00 PM	Grab	0							
22-Aug-01	12:00 PM	Grab		7.2	36	9.5	0.05		320	
31-May-02	12:00 PM	Grab			77		0.1		90	
01-Jul-03	1:30 PM	Grab		6.7	200	11.2	0.37	34	171	5.6
30-Jul-03	10:30 AM	Grab		6.8	58	7.8	0.05		157	8.6
23-Dec-03	12:00 PM	Grab		6.9	30	18.7	0.34		336	2.7
18-Mar-04	12:00 PM		0							
21-Apr-04	12:00 PM		0							
24-May-04	12:00 PM		0							
15-Sep-04	1:30 PM			6.8	50	12.7	0.13	1	129	7
14-Oct-04	10:40 AM			7.1	27	18.2	0.13	0	308	4

Report Date: 11 Aug 2008Field60:

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Waterwatch Victoria Application (WVA) - Site Report

SiteNo: CAS025 **Castle Creek at Gribben Road**

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	Flow ML/day	pH pH Units	Turb NTU	Temp ° C	TPhos mg/L P	Rainfall mm	EC µS/cm	DO mg/L
17-Aug-95	12:00 PM	Grab			65	12.7	0.12	0	80	
21-Sep-95	12:00 PM	Grab			65			0		
25-Sep-95	12:00 PM	Grab			80			19		
23-Oct-95	12:00 PM	Grab			140		0.32	28		
22-Dec-95	11:00 AM	Grab			90		0.44		140	
04-Jan-96	12:00 PM	Grab	0							
12-Feb-96	12:00 PM	Grab	10		90			20		
20-May-96	12:00 PM	Grab			35			0		
24-Jun-96	12:00 PM	Grab			150			53		
18-Jul-96	12:00 PM	Grab			40			6		
22-Aug-96	12:00 PM	Grab			40					
07-Oct-96	12:00 PM	Grab			50			25		
05-Nov-96	12:00 PM	Grab			100			23.5		
09-Dec-96	12:00 PM	Grab			80					
20-Jan-97	12:00 PM	Grab			100			0		
09-May-97	12:00 PM	Grab			60			35		
12-Sep-00	3:15 PM	Grab		6.46		13.9			190	
15-Sep-00	12:00 PM	Grab			71		0.21		120	
12-Oct-00	12:00 PM	Grab			64		0.32		220	
25-Oct-00	9:30 AM	Grab		7	119	18.1	0.72	50	200	
04-Nov-00	5:30 PM	Grab			65			32		
16-Nov-00	9:00 AM	Grab			21			45		
11-Dec-00	9:00 AM	Grab		6.9	18	24.1	0.5	0	260	
15-Jan-01	8:35 AM	Grab			60		0.11			
17-Jan-01	4:15 PM	Grab	0		51			0	110	
06-Feb-01	9:30 AM	Grab			73			33	80	
21-Feb-01	3:45 PM	Grab			71			0	150	
18-Apr-01	9:30 AM	Grab		7.7	86	15.2	0.14		70	
18-Apr-01	1:45 PM	Grab			55		0.11	0	60	
16-May-01	8:45 AM	Grab			55		0.14	0	60	
18-Jun-01	3:45 PM	Grab			140		0.62			
24-Jul-01	10:18 AM	Grab			70		0.3			
15-Aug-01	10:25 AM	Grab			70		0.27			

Report Date: 11 Aug 2008Field60:

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Waterwatch Victoria Application (WVA) - Site Report

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	Flow ML/day	pH pH Units	Turb NTU	Temp ° C	TPhos mg/L P	Rainfall mm	EC µS/cm	DO mg/L
22-Aug-01	10:00 AM	Grab			60		0.22	13		
25-Aug-01	9:15 AM	Grab			70		0.17			
11-Sep-01	2:00 PM	Grab			80		0.43	10		
19-Sep-01	2:00 PM	Grab			80		0.43			
16-Oct-01	8:30 AM	Grab			50		0.37	1		
17-Nov-01	12:00 PM	Grab			60		0.27	9		
14-Dec-01	12:00 PM	Grab			80		0.19			
13-Feb-02	12:00 PM	Grab			75		0.37			
16-Apr-02	9:35 AM	Grab			100		0.17			
17-May-02	8:30 AM	Grab			70			3		
17-Jun-02	2:00 PM	Grab			150		0.18	4.5		
20-Aug-02	12:00 PM	Grab			70		0.21			
22-Sep-02	11:20 AM	Grab			60	15	0.37			
15-Oct-02	7:00 AM	Grab				10				
18-Feb-03	11:30 AM	Grab			80	26	0.12			
18-Mar-03	9:20 AM	Grab			150	22	0.13			
15-Aug-03	11:50 AM	Grab			62		0.2	13	245	
25-Aug-03	11:15 AM	Grab			114		0.23	33	138	
09-May-07	10:00 AM		dry					0		

SiteNo: HON005 Honeysuckle Creek below Violet Town Weir

Parameters:

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	Flow ML/day	pH pH Units	Turb NTU	Temp ° C	TPhos mg/L P	Rainfall mm	EC µS/cm	DO mg/L
14-Mar-95	12:00 PM			7.5	<8	22.6			130	
16-Mar-07	2:20 PM	Grab	stag	7.8	28	21.7		0	569	14.2

SiteNo: HON006 Honeysuckle Creek 20m upstream of Harry's & Honeysuckle confluence

Parameters:

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	Flow ML/day	pH pH Units	Turb NTU	Temp ° C	TPhos mg/L P	Rainfall mm	EC µS/cm	DO mg/L
16-Nov-06	5:00 PM	Grab	LOW		16.1	14.2		5	210	
04-Sep-07	12:25 AM	Grab	low	6.1	11	11.8		0	151	10.6

Report Date: 11 Aug 2008Field60:

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Waterwatch Victoria Application (WVA) - Site Report

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	Flow ML/day	pH pH Units	Turb NTU	Temp ° C	TPhos mg/L P	Rainfall mm	EC µS/cm	DO mg/L
27-Oct-07	12:50 PM	Grab	low	7.6	6	29.4		10	191	7.2
22-Nov-07	1:30 PM	Grab	low	7.6	18	16.3		0	210	4.8
01-Apr-08	2:10 PM	Grab	low	7.4	12	16		0	241	2.0

SiteNo: HON007 Downstream of Harry's Creek & Honeysuckle confluence

Parameters:

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	Flow ML/day	pH pH Units	Turb NTU	Temp ° C	TPhos mg/L P	Rainfall mm	EC µS/cm	DO mg/L
04-Sep-07	12:25 PM	Grab	low	5.9	8.9	11		0	192	10.8
27-Oct-07	1:00 PM	Grab	low	7.5	7	20		10	220	7.8
22-Nov-07	1:40 PM	Grab	low	7.6	10.5	16.4		0	226	6.7
01-Apr-08	2:00 PM	Grab	low	7.0	6	15.4		0	247	5.5

SiteNo: HON008 Harry's Creek 20m Upstream of Harry's Creek & Honeysuckle confluence

Parameters:

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	Flow ML/day	pH pH Units	Turb NTU	Temp ° C	TPhos mg/L P	Rainfall mm	EC µS/cm	DO mg/L
16-Nov-06	5:20 PM	Grab	LOW		11.9	13.5		5	210	
04-Sep-07	12:25 PM	Grab	low	6.2	8.3	10.9		0	349	10
27-Oct-07	12:55 PM	Grab	low	7.4	3	21.1		10	467	6.8
22-Nov-07	1:55 PM	Grab		7.5	21.9	16.1		0	497	2.8
01-Apr-08	2:10 PM		dry					0		

SiteNo: HON009 Honeysuckle Ck 500m upstream of Hayes Rd Bridge

Parameters:

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	Flow ML/day	pH pH Units	Turb NTU	Temp ° C	TPhos mg/L P	Rainfall mm	EC µS/cm	DO mg/L
17-Jun-07	11:30 AM	Grab	low		17	8		0	280	
13-Jul-07	1:15 PM	Grab	steady		14	8.5		1	190	
10-Aug-07	11:45 PM	Grab	steady		12	10.1		1.4	190	
31-Aug-07	5:52 PM	Grab	steady		19	12.8		1	130	
05-Oct-07	5:00 PM	Grab			7	17.4		0	270	
04-Nov-07	1:15 PM	Grab			54	16.5		53	220	

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Waterwatch Victoria Application (WVA) - Site Report

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	Flow ML/day	pH pH Units	Turb NTU	Temp ° C	TPhos mg/L P	Rainfall mm	EC µS/cm	DO mg/L
06-Dec-07	8:30 AM	Grab			23	20.7		5	500	
02-Jan-08	6:30 PM	Grab	0		20	31.2		0	390	
02-Feb-08	7:00 PM	Grab	0		17	28.2		0	430	
29-Feb-08	6:22 PM		DRY					0		
04-Apr-08	6:30 PM		dry					0		
05-May-08	4:45 PM		dry					0		
04-Jun-08	5:20 PM	Grab			3	12.5		0	1560	
08-Jul-08	1:30 PM	Grab			27	9		20	270	

SiteNo: HON010 Honeysuckle Creek Upstream of Violet Town on Hayes Road

Parameters:

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	Flow ML/day	pH pH Units	Turb NTU	Temp ° C	TPhos mg/L P	Rainfall mm	EC µS/cm	DO mg/L
29-Jan-95	12:00 PM	Grab			27			20	281	
25-Feb-95	4:00 PM	Grab	0		25				529	
27-Mar-95	12:00 PM	Grab	0		100				575	
30-Apr-95	12:00 PM	Grab			0				511	
28-May-95	2:00 PM	Grab			30				308	
30-Jul-95	12:00 PM	Grab			80				170	
27-Aug-95	12:00 PM	Grab			9				232	
03-Sep-95	9:00 AM	Grab			<9				249	
08-Oct-95	3:00 PM	Grab			10				261	
29-Oct-95	6:00 PM	Grab			10				240	
03-Dec-95	12:00 PM	Grab			0				373	
24-Dec-95	12:00 PM	Grab			<9				417	
26-Jan-96	12:00 PM	Grab			13				303	
25-Feb-96	12:00 PM	Grab	0		12				454	
30-Mar-96	12:00 PM	Grab	0		15				352	
05-May-96	12:00 PM	Grab			<9				288	
29-Jun-96	10:30 AM	Grab			65				145	
28-Jul-96	10:00 AM	Grab			35				122	
30-Aug-96	12:30 PM	Grab			17				207	
28-Sep-96	3:00 PM	Grab			120				138	

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Waterwatch Victoria Application (WVA) - Site Report

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	Flow ML/day	pH pH Units	Turb NTU	Temp ° C	TPhos mg/L P	Rainfall mm	EC µS/cm	DO mg/L
07-Nov-96	2:30 PM	Grab			<10				255	
25-Nov-96	12:00 PM	Grab							264	
25-Nov-96	5:30 PM	Grab			<10				264	
28-Dec-96	7:00 PM	Grab			<10				286	
28-Dec-96	7:00 AM	Grab							286	
01-Feb-97	9:00 AM	Grab							324	
23-Feb-97	3:00 AM	Grab			15				583	
31-Mar-97	4:30 AM	Grab							579	
31-May-97	3:00 AM	Grab							211	
30-Jun-97	12:00 PM	Grab							235	
27-Jul-97	2:15 AM	Grab							213	
07-Sep-97	12:00 PM	Grab			45				105	
05-Oct-97	3:30 AM	Grab							219	
01-Nov-97	11:00 AM	Grab			45				123	
29-Nov-97	2:20 AM	Grab			5				213	
16-Nov-06	9:45 AM	Grab			48	11.7		5	480	
20-Jan-07	2:00 PM		0					0		
17-Feb-07	2:15 PM		0					0		
17-Mar-07	1:00 PM		0							
04-Sep-07	11:00 AM	Grab	low	6.2	8.7	9.7		0	237	9.6
01-Apr-08	2:20 PM		dry					0		

SiteNo: HON011 Honeysuckle Creek at Violet Town.

Parameters:

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	Flow ML/day	pH pH Units	Turb NTU	Temp ° C	TPhos mg/L P	Rainfall mm	EC µS/cm	DO mg/L
07-Aug-98	12:00 PM	Grab			18		0.1		190	
15-Sep-00	12:00 PM	Grab		7	50		0.13		130	
01-Jul-03	3:30 PM	Grab		6.8	54	10.9	0.15	34	281	9.4
12-Nov-03	11:00 AM	Grab		7.4	3.7	18.1	0.06	0	264	7.4
30-Jul-04	12:30 PM			7.3	46	9.3	0.1	8	198	9.2
30-Jul-04	12:30 PM			7.3	46	9.3	0.1	8	198	9.2
22-Sep-06	11:45 PM	Grab		7.0	16	14.3	0.05	0	266	7.1

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Waterwatch Victoria Application (WVA) - Site Report

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	Flow ML/day	pH pH Units	Turb NTU	Temp ° C	TPhos mg/L P	Rainfall mm	EC µS/cm	DO mg/L
16-Nov-06	11:15 AM	Grab			32	14		5	310	
15-Jul-07	2:00 PM	Grab	low	6.2	21	7.1		0.2	213	9.9
18-Jul-07	2:30 PM	Grab	fast	7.8	45	6.5		8.2	263	11.2
04-Sep-07	11:45 AM	Grab	low	6.1	7.8	9.8		0	242	9.1
23-Sep-07	12:20 PM	Grab	LOW	7.4	8.9	12.8		0	242	8.4
27-Oct-07	12:35 PM	Grab	low	7.3	10	19.7		10	339	4.3
22-Nov-07	1:30 PM	Grab	stag	7.3	36	17.2		0	406	2.5
01-Apr-08	12:40 PM		dry					0		
23-Jul-08	4:45 PM	Grab	med	7.2	43	7.5		20	202	9.4

SiteNo: HON013 Honeysuckle Creek downstream of Violet Town on Kelly Road

Parameters:

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	Flow ML/day	pH pH Units	Turb NTU	Temp ° C	TPhos mg/L P	Rainfall mm	EC µS/cm	DO mg/L
29-Jan-95	12:00 PM	Grab	0		31			20	439	
25-Feb-95	4:00 PM	Grab	0						649	
27-Mar-95	12:00 PM	Grab	0		25				700	
30-Apr-95	12:00 PM	Grab			<8				572	
28-May-95	2:00 PM	Grab			38				313	
30-Jul-95	12:00 PM	Grab			125				209	
27-Aug-95	12:00 PM	Grab			13				238	
03-Sep-95	9:00 AM	Grab			<9				275	
08-Oct-95	3:00 PM	Grab			15				298	
29-Oct-95	6:00 PM	Grab			15				257	
03-Dec-95	12:00 PM	Grab			<8				348	
24-Dec-95	12:00 PM	Grab			<9				442	
26-Jan-96	12:00 PM	Grab			15				315	
25-Feb-96	12:00 PM	Grab	0		10				344	
30-Mar-96	12:00 PM	Grab	0		20				328	
05-May-96	12:00 PM	Grab			12				288	
29-Jun-96	10:30 AM	Grab			50				145	
28-Jul-96	10:00 AM	Grab			35				122	
30-Aug-96	12:30 PM	Grab			16				210	

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Waterwatch Victoria Application (WVA) - Site Report

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	Flow ML/day	pH pH Units	Turb NTU	Temp ° C	TPhos mg/L P	Rainfall mm	EC µS/cm	DO mg/L
28-Sep-96	3:00 PM	Grab			110				121	
07-Nov-96	2:30 PM	Grab			<10				264	
25-Nov-96	12:00 PM	Grab					<0.02		269	
25-Nov-96	5:30 PM	Grab			<10				269	
28-Dec-96	7:00 AM	Grab			10		<0.02		261	
28-Dec-96	7:00 PM	Grab			10				261	
01-Feb-97	9:00 AM	Grab			15		0.08		358	
23-Feb-97	3:00 AM	Grab			20		0.05		494	
31-Mar-97	4:30 AM	Grab			22				520	
31-May-97	3:00 AM	Grab			5		<0.02		202	
30-Jun-97	12:00 PM	Grab							227	
27-Jul-97	2:15 AM	Grab			10				216	
07-Sep-97	12:00 PM	Grab			31		0.03		106	
05-Oct-97	3:30 AM	Grab							154	
01-Nov-97	11:00 AM	Grab			60		0.02		150	
29-Nov-97	2:20 AM	Grab			20				206	
28-Dec-97	2:30 AM	Grab			35		0.05		301	
08-Jul-98	12:00 PM	Grab			38		0.12	30	191	
07-Aug-98	12:00 PM	Grab			23		0.07		180	
16-Nov-06	11:00 AM	Grab	0							
15-Jul-07	2:15 PM	Grab	low	6.2	23	8.3		0.2	216	10.1
18-Jul-07	1:40 PM	Grab	high	7.8	50	6.6		8.2	274	11.2
04-Sep-07	10:15 AM	Grab	low	6.1	7.3	9.4		0	243	9.5
23-Sep-07	12:05 PM	Grab	LOW	7.4	6.7	12.9		0	239	9.1
27-Oct-07	12:25 PM		dry					10		
22-Nov-07	1:20 PM		DRY							
23-Jan-08	2:30 PM	Grab	no	7.3	41	30.5		42	278	7.6
01-Apr-08	12:35 PM	Grab	dry					0		
23-Jul-08	4:35 PM	Grab	med	7.3	47	9.5		20	198	9.1

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Waterwatch Victoria Application (WVA) - Site Report

SiteNo: HON014 Honeysuckle Creek at Toland Merinos - Feltrim Rd, Violet Town

Parameters:

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	<u>Flow</u> ML/day	<u>pH</u> pH Units	<u>Turb</u> NTU	<u>Temp</u> ° C	<u>TPhos</u> mg/L P	<u>Rainfall</u> mm	<u>EC</u> µS/cm	<u>DO</u> mg/L
23-Jan-07	12:55 PM	Grab	stag	7.2	60	17.9		50	278	2.0
31-Aug-07	3:10 PM	Grab	low	5.9	6.4	12		0	243	8.8
23-Dec-07	3:00 PM	Grab	low	7.2	60	17.9		50	278	2.0
22-Jan-08	12:00 PM	Grab	stagna		55	23.9		0	110	
22-Feb-08	1:00 PM	Grab	stagna		50	19.6		0	140	
01-Apr-08	12:25 PM	Grab	stagna	7.0	54	15.5		0	166	1.7

SiteNo: HON015 Honeysuckle Creek on Shepparton-Violet Town Road.

Parameters:

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	<u>Flow</u> ML/day	<u>pH</u> pH Units	<u>Turb</u> NTU	<u>Temp</u> ° C	<u>TPhos</u> mg/L P	<u>Rainfall</u> mm	<u>EC</u> µS/cm	<u>DO</u> mg/L
29-Jan-95	12:00 PM	Grab	0		38			20	1164	
25-Feb-95	4:00 PM	Grab	0		22				2630	
27-Mar-95	12:00 PM	Grab	0		24				4030	
30-Apr-95	12:00 PM	Grab			22				4910	
28-May-95	2:00 PM	Grab			85				222	
30-Jul-95	12:00 PM	Grab			70				193	
27-Aug-95	12:00 PM	Grab			25				200	
03-Sep-95	9:00 AM	Grab			25				214	
08-Oct-95	3:00 PM	Grab			40				249	
29-Oct-95	6:00 PM	Grab			80				276	
03-Dec-95	12:00 PM	Grab			52				289	
24-Dec-95	12:00 PM	Grab			31				357	
26-Jan-96	12:00 PM	Grab			80				305	
25-Feb-96	12:00 PM	Grab	0		30				463	
30-Mar-96	12:00 PM	Grab			80				246	
05-May-96	12:00 PM	Grab			55				202	
15-May-96	1:00 PM	Grab	15	7.8	38	15.1		0	120	
29-Jun-96	10:30 AM	Grab			80				130	

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Waterwatch Victoria Application (WVA) - Site Report

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	Flow ML/day	pH pH Units	Turb NTU	Temp ° C	TPhos mg/L P	Rainfall mm	EC µS/cm	DO mg/L
28-Jul-96	10:00 AM	Grab			40				104	
30-Aug-96	12:30 PM	Grab			39				165	
28-Sep-96	3:00 PM	Grab			100				111	
07-Nov-96	2:30 PM	Grab			60				200	
25-Nov-96	5:30 PM	Grab			40				202	
25-Nov-96	12:00 PM	Grab			40		<0.02		202	
28-Dec-96	7:00 AM	Grab			40				309	
28-Dec-96	7:00 PM	Grab			40				309	
01-Feb-97	9:00 AM	Grab			55				235	
23-Feb-97	3:00 AM	Grab			25				522	
31-Mar-97	4:30 AM	Grab			17		0.03		1761	
31-May-97	3:00 AM	Grab			40				166	
30-Jun-97	12:00 PM	Grab			25				186	
27-Jul-97	2:15 AM	Grab			24				165	
07-Sep-97	12:00 PM	Grab			60				99	
05-Oct-97	3:30 AM	Grab			25				151	
01-Nov-97	11:00 AM	Grab			60				550	
29-Nov-97	2:20 AM	Grab			80				170	
28-Dec-97	2:30 AM	Grab			25		<0.02		929	
15-Sep-00	12:00 PM	Grab		6.6	77		0.12		100	
01-Jul-03	3:10 PM	Grab		6.6	135	11.2	0.23	34	314	8.4
13-Nov-03	9:30 AM	Grab		7	23	16.1	0.09	0	256	7.8
30-Jul-04	1:00 PM			7.1	100	9.2	0.16	8	281	9
22-Sep-06	12:00 PM	Grab		6.8	49	14.7	0.05		174	6.1
16-Mar-07	3:15 PM		dry							
31-May-07	10:30 AM	Grab	stag	7.3	80	10.4		14	136	3.6
23-Jan-08	3:45 PM	Grab	dry					42		

SiteNo: HON024 Honeysuckle Creek at Shepparton-Euroa Road

Parameters:

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	Flow ML/day	pH pH Units	Turb NTU	Temp ° C	TPhos mg/L P	Rainfall mm	EC µS/cm	DO mg/L
22-Jun-00	5:30 PM	Grab			130		0.17	10	210	

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Waterwatch Victoria Application (WVA) - Site Report

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	Flow ML/day	pH pH Units	Turb NTU	Temp ° C	TPhos mg/L P	Rainfall mm	EC µS/cm	DO mg/L
15-Sep-00	12:00 PM	Grab		6.6	104		0.17		100	
11-Dec-00	12:00 PM	Grab		7	57	24.3	0.19	0	190	
22-Sep-06	12:40 PM	Grab		6.5	53	14.5	0.08	0	178	6.4
16-Mar-07	1:45 PM	Grab	stag	7.1	104	25.6		0	218	4.7

SiteNo: HON025 Honeysuckle Creek on Central Kialla Road

Parameters:

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	Flow ML/day	pH pH Units	Turb NTU	Temp ° C	TPhos mg/L P	Rainfall mm	EC µS/cm	DO mg/L
22-Aug-96	12:00 PM	Grab			80					
07-Oct-96	12:00 PM	Grab			100					
05-Nov-96	12:00 PM	Grab			150			23.5		
09-Dec-96	12:00 PM	Grab			150					
20-Jan-97	12:00 PM	Grab			55			0		
09-May-97	12:00 PM	Grab			100			35		
08-Jul-98	12:00 PM	Grab			163		0.14	30	285	
24-Sep-98	12:00 PM	Grab			350			40		
20-Oct-98	12:00 PM	Grab		6.1	80		0.16		160	
01-Jul-03	1:00 PM	Grab		6.6	81	10.9	0.27	34	235	8
12-Nov-03	9:00 AM	Grab		7	78	17	0.17	0	230	6.7
30-Jan-04	10:00 AM	Grab		6.6	80	19.5	0.39		256	2.3
30-Jul-04	12:00 PM			7.1	129	9	0.16	8	323	8.8
30-Jul-04	12:00 PM			7.1	129	9	0.16	8	323	8.8
17-Aug-04	10:30 AM				40		0.04		163	
17-Aug-04	10:30 AM				40		0.04		163	
19-Nov-04	10:30 AM	Grab		7.6	1.7	19.3		0	216	6.1
08-Apr-05	12:15 PM	Grab		7.1	82	18.7	0.12	0	150	5.7
22-Sep-06	12:50 PM	Grab		6.8	101	14.1	0.09	0	180	5.5
22-Jun-07	12:45 PM	Grab	low	7.5	68	8	0.08	2.2	228	7.9
11-Jul-07	1:40 PM	Grab	high	8.0	129	8.6	0.12	1.2	140	9.5
18-Jul-07	11:20 AM	Grab	stead	8.1	74	7	0.08	8.2	152	9.5
31-Aug-07	8:45 AM	Grab	low	6.9	36	12.7	0.1	0	247	8.5
19-Sep-07	10:10 AM	Grab	low	6.8	40	11.7	0.09	0	272	6.9

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Waterwatch Victoria Application (WVA) - Site Report

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	Flow ML/day	pH pH Units	Turb NTU	Temp ° C	TPhos mg/L P	Rainfall mm	EC µS/cm	DO mg/L
22-Oct-07	11:00 AM	Grab	stag	7.2	40	17.5	0.11	0	305	3.6
22-Nov-07	10:20 AM	Grab	low	7.3	68	16.2	0.28	1.6	222	1.7
22-Dec-07	2:00 PM	Grab	stag	7.3	55	22.3	0.47	40	220	5.5
23-Jan-08	10:45 AM	Grab	low	7.7	84	21.1	0.34	0	312	3.4
19-Mar-08	9:40 AM	Grab	Very	7.0	45	18.4		0	270	1.9
01-Apr-08	9:35 AM	Grab	0	6.8	34	13.5	0.11	0	234	2.8
01-May-08	1:10 PM	Grab	stagna	7.2	51	11.1	0.05	0	132	2.9
23-Jul-08	1:45 PM	Grab	stagna	6.8	64	10.1		13	133	8.1

SiteNo: WAR008 Warrenbayne Creek at Warrenbayne/Swanpool Road

Parameters:

<u>Date:</u>	<u>Time:</u>	<u>Sample Type:</u>	Flow ML/day	pH pH Units	Turb NTU	Temp ° C	TPhos mg/L P	Rainfall mm	EC µS/cm	DO mg/L
17-Jun-07	9:50 AM	Grab	low		14	8.2		0	130	
13-Jul-07	12:30 PM	Grab	steady		19	8.3		1	130	
10-Aug-07	12:45 PM	Grab	falling		15	10.1		1.4	150	
31-Aug-07	5:10 PM	Grab	steady		19	12.8		0	130	
05-Oct-07	4:05 PM	Grab	low		18	16.3		0	130	
04-Nov-07	12:45 PM	Grab			180	15.3		53	190	
06-Dec-07	9:00 AM	Grab			24	21		5	170	
02-Jan-08	4:45 PM	Grab			29	29		0	230	
02-Feb-08	6:45 PM	Grab	low		29	26.1		0	280	
29-Feb-08	5:50 PM	Grab	stag		200	19.4		0	370	
04-Apr-08	6:00 PM	Grab	low		26	13.9		0	260	
05-May-08	5:00 PM	Grab	steady		5	11.4		0	150	
04-Jun-08	4:40 PM	Grab	STEADY		12	10.7		0	140	
08-Jul-08	12:10 PM	Grab	rising		35	8.6		27	140	

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