

GOULBURN-MURRAY  
**WATER**



**Spring Hill Water Supply Protection Area  
Management Plan (Groundwater)**

REPORT FOR THE YEAR ENDED  
JUNE 2007

## Foreword

This report is submitted to the Minister for Water, the Goulburn Broken Catchment Management Authority and the North Central Catchment Management Authority in accordance with Section 32C of the *Water Act* 1989. A copy of this report is available for inspection at the Tatura office of Goulburn-Murray Water (G-MW), or upon request. A notice of report availability will also be published as required by Section 32D of the *Water Act* 1989.

The purpose of this report is to detail the Authorities activities in administering and enforcing the management plan, providing information that is required to be reported under the Plan.

<b>Area</b>	Spring Hill Water Supply Protection Area
<b>Segment</b>	Groundwater
<b>Area Declared</b>	14 January 1999
<b>Plan Approved</b>	28 January 2002
<b>Scheduled Plan Review</b>	August 2007
<b>Implementation Authority</b>	Goulburn-Murray Water
<b>Relevant CMA</b>	North Central Catchment Management Authority
<b>Report Period</b>	1 July 2006 – 30 June 2007

## Summary

Since approval of the Management Plan in 2002, Goulburn-Murray Water has achieved all of the plan requirements including implementation of a metering and monitoring program. Implementing elements of the management plan in some cases requires longer term planning, consultation and negotiations with licence holders; G-MW is actively progressing towards completion of these elements.

During any year, new operational issues may also arise and impact on plan implementation. These issues, such as new bores requiring meter fitting, are dealt with as they arise. Table 1 outlines management plan compliance for the reporting period.

Identification and monitoring of potential high users throughout the season, temporary transfers of water entitlement and a communication strategy warning of the consequences of unauthorised use of groundwater have resulted in successful management of compliance. As a result of this pro-active management there were no instances of where water was taken in excess of licensed entitlement.

**Table 1 – 2006/2007 compliance with the Management Plan**

<b>Plan Requirement</b>	<b>Complies</b>
Bore monitoring requirements	Yes
Salinity Monitoring	No (not considered a significant non-compliance)
Bore metering requirements	Yes
Average annual levels above minimum levels specified in the plan	Yes
Use in excess of entitlement	Yes

## **Resource Position**

Monitoring indicates further decline in the spring groundwater recovery levels in the more intensively developed Blampied and Forest Hill zones. Decline in groundwater levels in the Smeaton and Mollonghip zones, while not showing the seasonal fluctuations observed in the other zones, is consistent with broader regional decline due to continued drier than average climatic conditions resulting in low groundwater recharge.

## **Operation of the Plan**

The scheduled management plan review process is in progress. The continuing dry conditions in the Spring Hill WSPA have highlighted the complexity of the hydrogeology in the area with issues such as the current monitoring network and zone boundaries requiring review within the current process. An approach to the review has been developed in consultation with licence holders with an aim to implementation of a revised plan in the 2007/08 financial year. Technical work commenced in early 2007.

During the reporting period the following issues were identified to requiring consideration by Goulburn-Murray Water (G-MW) and the Department of Sustainability and Environment (DSE) in relation to the implementation of the Groundwater Management Plan:

1. All bores with the requirement are metered. Two existing meters on bores will be replaced in 2007/2008 before any use occurs.
2. Water samples were submitted for 21% of bores, this is a slight decrease (6%) on the previous reporting period 2006-2006. G-MW is endeavouring to improve compliance with the salinity sampling program by providing feedback to licensees on the sample results. G-MW will also aim to improve understanding by providing information to licensees outlining the purpose and benefits of collecting groundwater data and highlighting the importance of contributing to this information.
3. While the Consultative Committee charged with developing the Management Plan believed that notification of Domestic and Stock use was an appropriate step towards improving groundwater management, it is doubtful that they would consider that enforcing compliance is of a high priority relative to other requirements in the Groundwater Management Plan. G-MW will continue to raise this issue in communications with customers.
4. Water levels have declined, requiring G—MW to restrict trade in the 2006-2007 season (5% or 5ML whatever was the lesser).
5. A high priority needs to be given to reviewing the Spring Hill Groundwater Management Plan in 2007 as noted in section 3.19 of the Groundwater Management Plan explanatory paper.

Signed

Russell Cooper  
Managing Director

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## 1 Introduction

The Spring Hill Water Supply Protection Area (WSPA) is located to the north-east of Creswick. For management purposes an area of approximately 253 km<sup>2</sup> is divided into 4 zones; Smeaton, Forest Hill, Blampied and Mollonghip. The WSPA includes all aquifers down to a depth of 70m and covers the full depth of any aquifers within the volcanic cone areas. **Figure 1** shows the location of the Spring Hill WSPA.

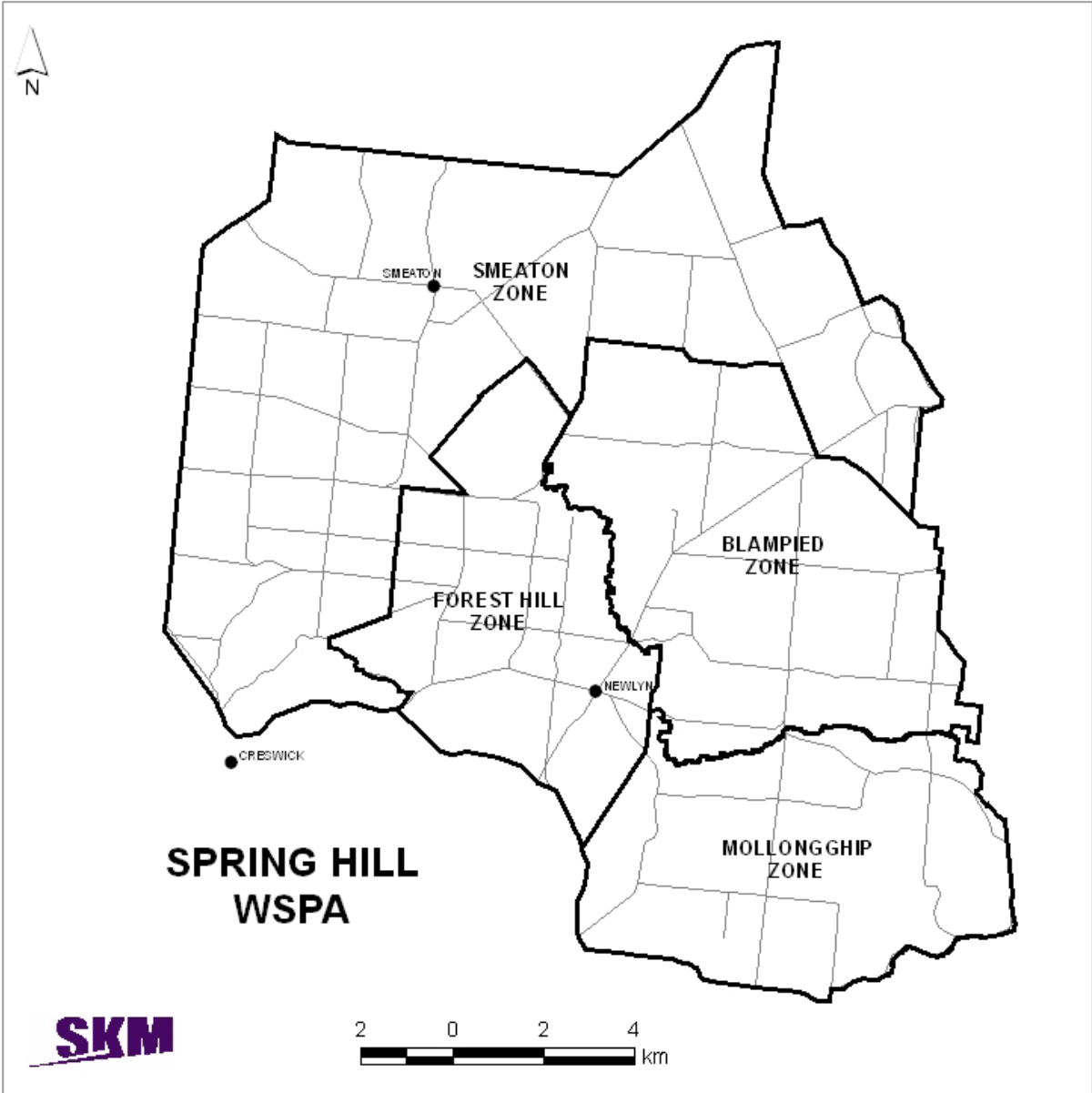
The Spring Hill Groundwater Management Plan (GMP) was approved by the Minister responsible for the Water Act on 28 January 2002. Under clause 7 of the GMP, Goulburn-Murray Water (G-MW) has the duty of administering the Plan.

The objective of the GMP is to make sure that the groundwater resources of the WSPA are managed in an equitable manner and to ensure the long-term sustainability of those resources.

In accordance with Section 32C of the *Water Act* 1989, G-MW must report annually on administration and enforcement of the GMP. The plan specifies several groundwater management activities including;

- Maintenance of monitoring bores
- Groundwater level monitoring
- Groundwater salinity monitoring
- Bore metering program

Figure 1 - Spring Hill WSPA



## 2 Key Observations

### 2.1 Water Levels/Flows

The Spring Hill WSPA GMP requires groundwater levels to be measured in 27 bores. The following is based on observations from these readings over the reporting period.

- The bore locations referred to below are shown in **Appendix A**.
- Hydrographs of bores in Schedule 2 and 3 are attached in **Appendix B**.
- Extraction Points & Metered Site Locations are shown in **Appendix C**.

The Spring Hill WSPA comprises a complex system of interconnected aquifer units that make up the groundwater resources for the area. Water levels typically respond to local groundwater abstraction and seasonal recharge. It is important that there is a broad monitoring network to fully assess groundwater level trends across the WSPA.

The continuation of below average rainfall has contributed to lower recharge rates across the Spring Hill WSPA – this has been exacerbated by a significantly drought conditions in 2006/2007. Early season resource demand has increased due to these dry conditions. Groundwater usage data also confirms increased resource demand this year compared to 2005/06.

Evidence of a highly complex system is shown in the Forest Hill region where observation bore 116382 showed a steady decline in spring recovery of greater than 2 metres per year which is not reflected in bore 91937 (refer to appendix A).

Groundwater development is substantially greater in the Blampied and Forest Hill zones compared to the Smeaton and Mollongghip zones. The impact of this more intensive development is shown clearly in greater seasonal groundwater changes as seen in the Blampied and Forest Hill zones in bores 138657, 138658, and 116382 (refer to appendix A). In the Smeaton Zone groundwater pumping is of low intensity yet observation bores show a continued decline in water levels. While there is little available data for bores in Mollongghip, there are few licensed extraction bores in the zone, so trends would be expected to be similar to the Smeaton zone, which is also an area that is not intensively pumped (refer to Appendix A).

The water level decline observed in Spring Hill WSPA is consistent with a general decline in regional water levels as shown in the boundary bores to the north and west of the area (in the Upper Loddon WSPA). Water levels will be closely monitored for evidence of further decline and recommendations for future management of the area are likely to be made in the current groundwater management plan review..

G-MW has considered that the groundwater resources in Spring Hill WSPA (in one or several areas) are under stress (and therefore affecting individuals access to the resource), it will consult relevant users and develop an action plan for implementing seasonal restrictions in accordance with Section 3.13 of the Spring Hill Groundwater Management Plan for the 2007/2008 season.



## 2.3 Water Use

Table 2 provides detail on water use in 2006/2007 compared to use in 2005/2006.

**Table 2 Water Use Comparison Table**

	At 30 June 2006	At 30 June 2007
No. of licences	56	57
Total entitlement volume	4947 ML/yr	4947 ML/yr
Total annual allocation	4947 ML/yr	4947 ML/yr
No. of metered bores*	51	52
Metered volume used	1848 ML	2491 ML
No of licences with estimated volumes	0	0
Total estimated volume used	0	0
Total use	1848 ML	2491 ML
Use % of total allocation	37 %	50 %
No. of licences with use greater than licensed allocation **	0	1
Total volume used above licensed allocation***	0	30 ML
Use % of Allocation Limit	37 %	50 %

\* Note 1 additional meters has been installed.

\*\* No. of licences with use greater than licence allocation is a result malfunctioning meter.

\*\*\* Volume used over licence allocation is a result of malfunctioning meter.

## 2.4 Non Compliance

There was one licence where water was taken in excess of licensed entitlement. This was due to a malfunctioning meter, that was reading greater then the amount of water that was being extracted. This meter will be replaced before pumping occurs in 2006-2007. Identification and monitoring five times throughout the year of users throughout the season, temporary transfer of water entitlement and communication, outlining of the consequences of use over entitlement, has resulted in successful management of compliance.

Licence holders who recorded use over entitlement in the past were the target of a G-MW communications strategy warning of the consequences of unauthorised use of groundwater. While this advice has brought about success in 2006/2007, licensed groundwater users will continue to be reminded of their obligation to use within licence entitlement. Metering of licensed use was completed during 2006/2007 and all future use in excess of entitlement will result in G-MW taking legal action.

No use in excess of entitlement or breaches of the *Water Act* 1989 were detected. This is a direct result of successful communications with licence holders, increased proactive management resulting with use within entitlement during 2006/07.

### 3 Plan Implementation

#### 3.1 Monitoring Requirements

A map showing the monitoring sites listed in Schedule 2 and 3 of the Management Plan is included in **Appendix A**.

##### 3.1.1 Water Level Monitoring Requirements of the Plan

The following table details the requirements of the management plan in relation to monitoring.

**Table 3 - Bore Monitoring Program Requirements**

<b>Plan Requirement:</b>	<b>Activity / Reference</b>	<b>Complies</b>
<p>8.1 Maintenance of monitoring bores</p> <p>The Secretary must, for each bore listed in Schedule 2:</p> <ul style="list-style-type: none"> <li>i. periodically inspect the condition of the bore</li> <li>ii. maintain the bore in good condition</li> <li>iii. keep a record of all inspections and maintenance work undertaken under paragraphs a) and b) in relation to the bore</li> </ul>	<p>Inspected during monitoring.</p> <p>No action required.</p> <p>Records kept<sup>1</sup></p>	<p>Yes</p> <p>Yes</p> <p>Yes</p>
<p>8.2 Water Levels</p> <ul style="list-style-type: none"> <li>a) The Secretary must determine the potentiometric level in each bore specified in Schedule 2, during July, October, January and April in every year.</li> <li>b) G-MW must determine the potentiometric level in each bore specified in Schedule 3, during July, October, January and April in every year.</li> <li>c) The potentiometric levels determined in a) and b) must be recorded on the Groundwater Management System within 30 days</li> </ul>	<p>Monitored as required.</p> <p>Accessible bores monitored as required</p> <p>Data entered to GMS database.</p>	<p>Yes</p> <p>Yes</p> <p>Yes</p>

##### 3.1.2 Compliance and Exceptions

Monitoring activities undertaken during the reporting period comply with the requirements of the Plan. Exceptions are noted in section 3.1.4.

##### 3.1.3 Maintenance of Monitoring Bores

Bores are visually inspected during monitoring and any maintenance required is noted on the monitoring run field sheets, condition is then recorded into the Groundwater Management System.

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<sup>1</sup> Comments logged on monitoring run sheets on file WT01841 at Sinclair Knight Merz Tatura who monitor and maintain bores on behalf of DSE.

### 3.1.4 Water Levels and Resource Assessment

Under Clause 8.2 (a), DSE must determine the potentiometric levels for every bore specified in Schedule 2 (4 bores) during July, October, January and April. Monitoring complied with these requirements.

Under Clause 8.2 (b), G-MW must determine the potentiometric levels for every bore specified in Schedule 3 (23 bores) during July, October, January and April, if the bore is accessible. On seven occasions individual bore readings were not obtained, due to access difficulties (Bore 141406), lambing ewes (Bore 141410), and pumping (Bore 132684 & Bore 141414).

Under Clause 8.2 (c), potentiometric levels from bores listed in both Schedules 2 and 3 are to be entered into the Groundwater Management System (GMS) within 30 days after it is determined. Hydrographs of schedule 2 bores and representative hydrographs of schedule 3 bores are shown in **Appendix B**. From the 23 bores listed in Schedule 3, eight have been selected to give a broad representation of groundwater levels across the four Spring Hill zones.

### 3.2 Salinity Monitoring

G-MW conducted a mail out to Spring Hill WSPA licensees during the irrigation season. A sample bottle was included in the mail out along with a pre-paid return envelope and a letter requesting that a groundwater sample be collected during operation of the bore and returned to G-MW for salinity determination.

Under the plan, D&S users may also submit samples for testing.

The following table details the requirements of the management plan in relation to salinity monitoring.

**Table 4 - Salinity Monitoring**

Plan Requirement:	Activity / Reference	Complies
8.3 Salinity		
b) The licensee, or the owner or occupier of a domestic and stock bore, must take, store and give G-MW a sample of water from their bore when requested by G-MW	Sample bottles and letters sent to 57 licensees (115 bores)  24 (21%) water samples were returned.	Partial compliance
d) G-MW must		
i. measure the electrical conductivity of each water sample	All water samples received were analysed.	Yes
ii. record the results of the analysis on the Groundwater Management System	Results of each analysis were entered into the GMS and deep Lead database.	Yes
iii. Inform the bore owner of the results of the analysis	Landholders provided with results from previous year by mail, and results from current year upon request.	Yes

### 3.2.1 Compliance and Exceptions

Samples were collected from 24 of the licensed bores (giving an approximate response rate of 21%) between November 2006 and June 2007. **Figure 2** shows the geographic spread of samples provided for analysis for 2006/2007. This is a slight decrease (6%) on the previous reporting period 2005-2006 and G-MW is endeavouring to improve compliance with the salinity sampling program by providing feedback to licensees on the sample results. G-MW will also aim to improve understanding by providing information to licensees outlining the purpose and benefits of collecting groundwater data and highlighting the importance of contributing to this information. A pro-active communication plan in 2007/2008 will help to improve the response rate and emphasise the importance of the salinity sampling program. Diversions Inspectors will also endeavour to take salinity samples when reading meters to increase salinity data.

The spread of returned samples is considered adequate to monitor general trends in groundwater salinities across the WSPA. The issue of non-compliance with the Plan is discussed further in Section 4.4.3.

### 3.3 Metering

The location of all extraction points and metered sites is shown in Appendix C.

#### 3.3.1 Requirements of the Plan

The following table details the requirements of the management plan in relation to metering.

**Table 5 - Bore Metering Program Requirements**

Plan Requirement:	Activity / Reference	Complies
9.1 Installation and maintenance of meters		
a) G-MW must:		
i. ensure that a flow meter is fitted to every bore being used in association with a Licence unless the bore is used solely for dairy use or Domestic and Stock purposes;	1 meter was installed in the Blampied Zone.	Yes
ii. inspect the condition of the flow meter whenever it is read	Condition of meter noted when reading taken.	Yes
iii. maintain the flow meter in good condition	Condition of meter noted when reading taken.	Yes
iv. recalibrate the flow meter at any time when the authority has reason to believe that a reading from the meter may be inaccurate	3 meters had routine maintenance carried out in 2006/2007.	Yes
v. replace any damaged flow meter	No meters replaced.	Yes
vi. keep a copy of all work done on the flow meter	Records kept.	Yes
b) The licensee must::		
i. ensure reasonable care is taken of any meter fitted to the bore by G-MW; and	1 new meter fitted in 2006/2007.	Yes
ii. ensure G-MW is promptly advised whenever that meter appears to be defective, registering incorrectly or is damaged.	2 bores reported defective meters. These meters will be replaced by the start of the 2007/2008 season.	Yes
9.2 Meter Readings		
a) G-MW must:		
i. read each flow meter twice each year	Measurements taken August 23 <sup>rd</sup> , November 16 <sup>th</sup> , January 18 <sup>th</sup> , March 14 <sup>th</sup> & June 6 <sup>th</sup> .	Yes
ii. determine the volume of water extracted	Total usage was calculated	Yes
iii. record the metered volume on a database	Data entered onto IPM database, MS Excel at end of season.	Yes
iv. estimate the volume of water from defective meters	No defective meters reported.	Yes
v. record the estimated volume on a database	No estimated volumes	Yes

### 3.3.2 Metering Fitting activities

**Table 6 – Summary of meter fitting activities**

	Year to 30 June 2006	Total for WSPA at 30 June 2007
Number of meters installed	4	1
Meters requiring recalibration	-	2
Meters replaced	-	-

### 3.3.3 Compliance and Exceptions

The one bore outlined in last year's annual report that required a meter was fitted in the 2006/2007 season. This was a previously unused bore that is currently being equipped for groundwater extraction. Three meters had routine maintenance carried out on them last year. Two meters have been identified to be replaced for the 2007/2008 season, these bores are scheduled to be completed by the start of the irrigation season.

### 3.3.4 Issues Affecting Implementation

The increasing intensity of groundwater management within the Spring Hill WSPA and elsewhere requires improved systems for the storage, retrieval, analysis and reporting arrangements for large quantities of data. Goulburn-Murray Water has developed an asset management database to improve its maintenance schedule and records for metering. The implementation of a Geographic Information System was implemented in the 2006/2007.

## 4 Restrictions on Licensing and Licence Transfers

### 4.1.1 Requirements of the Plan

The following table details the requirements of the management plan in relation to restrictions and prohibitions on the issue of groundwater licences.

**Table 7 - Restrictions and Prohibitions on the Issue and Transfers of Groundwater Licences**

Plan Requirement:	Activity/Reference	Complies
10 Restrictions and Prohibitions on the Issue of Licences		
10.1 A groundwater licence must not be issued under Section 51 of the act except : (a) To allow for amalgamation & division (b) To increase dairy use entitlement from 2ML to 5 ML (c) To resolve administrative anomalies.	No new entitlement allocated	Yes
11. Extent to which a groundwater licence may be transferred*		
11.1 Permanent transfers	Waternote sets out rules for permanent transfer	Yes
11.2 Temporary transfers	Waternote sets out rules for temporary transfer	Yes
11.3 Recording transfers	G-MW tracks individual buyers and sellers. Temporary transfers within and between zone in WSPAs are monitored. See Table 7	Yes

\* Records are not kept of the cumulative number and volume of transfers associated with the conveyance of land.

### 4.1.2 Licensing Management Summary

The following table provides details of licensing activities.

**Table 8 - Licensing Activities for 2006/07**

Year to 30 June 2007	No.	Volume (ML)
New licences issued	1	0
Additional volumes on existing licences	0	0
Licences revoked	0	0
D&S Bores notifying use	0	0

**Table 9 - Transfer Summary for 2006/2007**

Zone Name	Transfer Zone	Within Zone		Into Zone		Out of Zone	
		No. of transfer	Amount transferred	No. Of transfers	Amount transferred	No. of transfers	Amount transferred
<b>Molongghip</b>	<b>1001</b>	No trades completed					
<b>Blampied</b>	<b>1002</b>	2	10	-	-	-	-
<b>Forest Hill</b>	<b>1003</b>	1	5	-	-	1	5
<b>Smeaton</b>	<b>1004</b>	0	0	1	5	-	-

There were no permanent transfers in the Spring Hill WSPA.

#### 4.1.3 Compliance and Exceptions

Activities undertaken during the reporting period comply with the requirements of the Plan. Transfers are recorded in a database. G-MW has incorporated temporary transfer of water entitlement (TTWE) into Watermove, which does not match buyers and sellers at an individual licence level, and attempting to conduct these matches for other transfers would not be useful.

Licensees are able to apply for TTWE for planned use greater than licence entitlement. Such applications must be approved by G-MW before TTWE use can occur and matters to be considered under section 40 of the *Water Act 1989* must be considered. In the absence of approved TTWE, use in excess of entitlement is a breach of licence conditions and will be subject to legal action by G-MW. As a response to managing water level decline TTWE was restricted to 5 ML or 5 % of water entitlement (whatever was the lesser).

## 4.2 Notification of Domestic and Stock Use

### 4.2.1 Requirements of the Plan

The following table details the requirements of the management plan in relation to notification of domestic and stock use.

**Table 10 - Domestic and Stock Notification**

Plan Requirement:	Activity/Reference	Complies
12 a) The occupier of any unlicensed D&S bore must notify G-MW whether or not the occupier has taken water from the bore for D&S purposes *	No additional notification received	No

\*Only one D&S user has notified of their use since the plan commenced.

### 4.2.2 Compliance and Exceptions

Activities undertaken during the reporting period do not comply with the requirements of the Plan. G-MW will aim to improve by providing information to licensees outlining the purpose and benefits of notifying domestic and stock use and highlighting the importance of contributing to this information.

A Waternote describing the process for registration of D&S use is available at G-MW's Internet site at:

[http://www.g-mwater.com.au/browse.asp?ContainerID=surface\\_and\\_groundwater](http://www.g-mwater.com.au/browse.asp?ContainerID=surface_and_groundwater)

### **4.2.3 Issues Affecting Implementation**

#### **Compliance for use within entitlement**

Achieving compliance for use within entitlement is considered a high priority relative to the potentially high cost of enforcement. Communication with licence holders outlining obligations to manage use within entitlement will continue along with reminders of potential legal action if this does not occur.

The success of G-MW's ongoing communication with licence holders regarding the need to manage use within entitlement is demonstrated. A management strategy to complete 5 meter readings for the season assisted keeping users within licence entitlement.

#### **Notification of Domestic and Stock Use**

Significant difficulties remain with enforcing the GMP requirements for notification of domestic and stock use; these include:

- In many cases, the depth, location and current ownership of domestic and stock bores is unknown.
- There is no means of tracking changes in ownership and/or the status of the bore.
- The accuracy of corrected data alters over time.
- Where current data is available, there are no institutional arrangements to ensure G-MW is made aware of changes to ownership.

#### **Estimating groundwater use**

While water use data estimates may assist in understanding total groundwater use, the implications for groundwater resource management are not considered to be significant, particularly given that the accuracy of the estimates would be highly questionable.

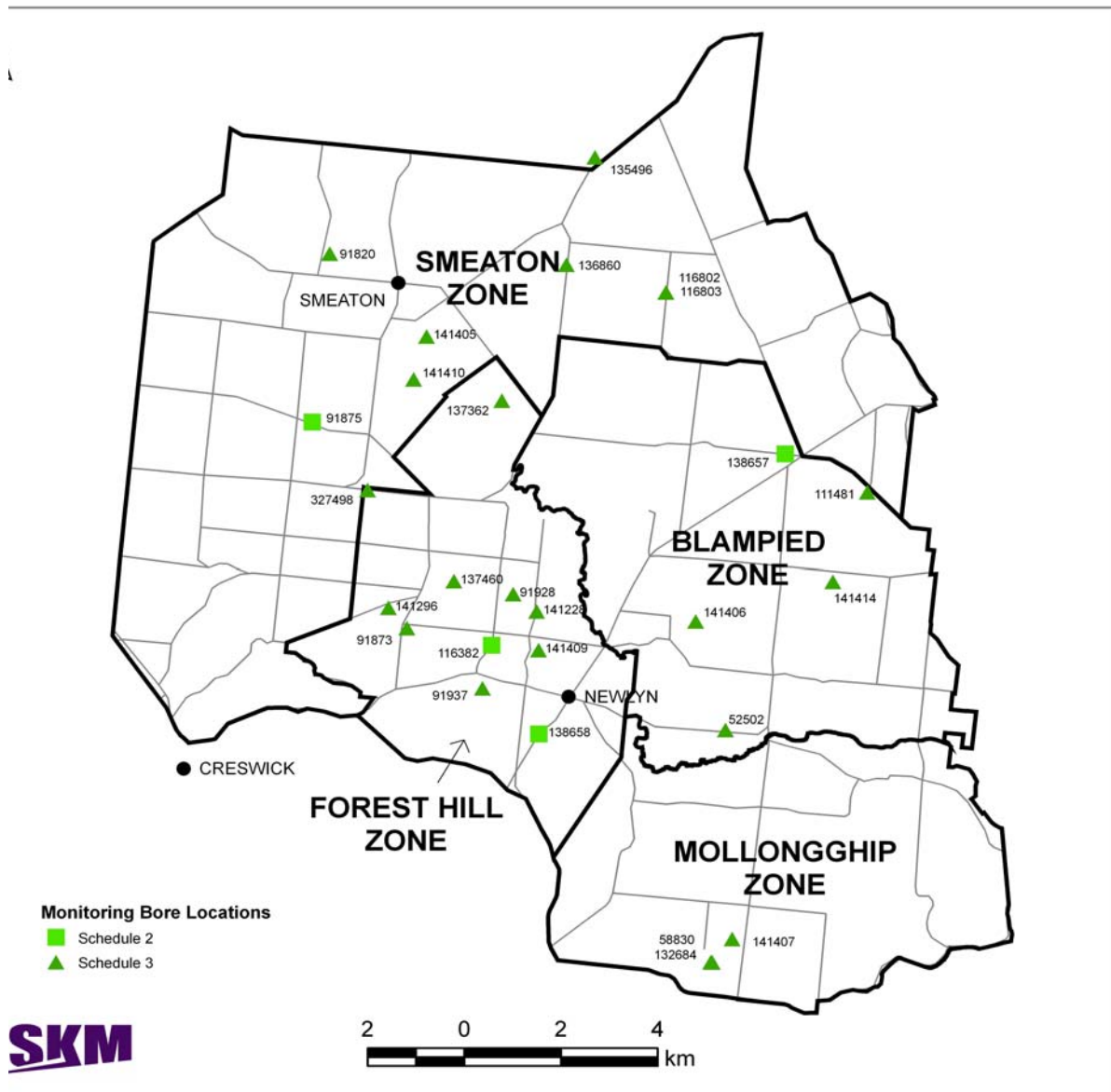
#### **Review of the Groundwater Management Plan**

G-MW have begun the review process for the review of the Spring Hill Groundwater Management Plan. The requirement for a review is noted in section 3.19 of the Groundwater Management Plan explanatory paper.

#### **Consideration of seasonal restrictions**

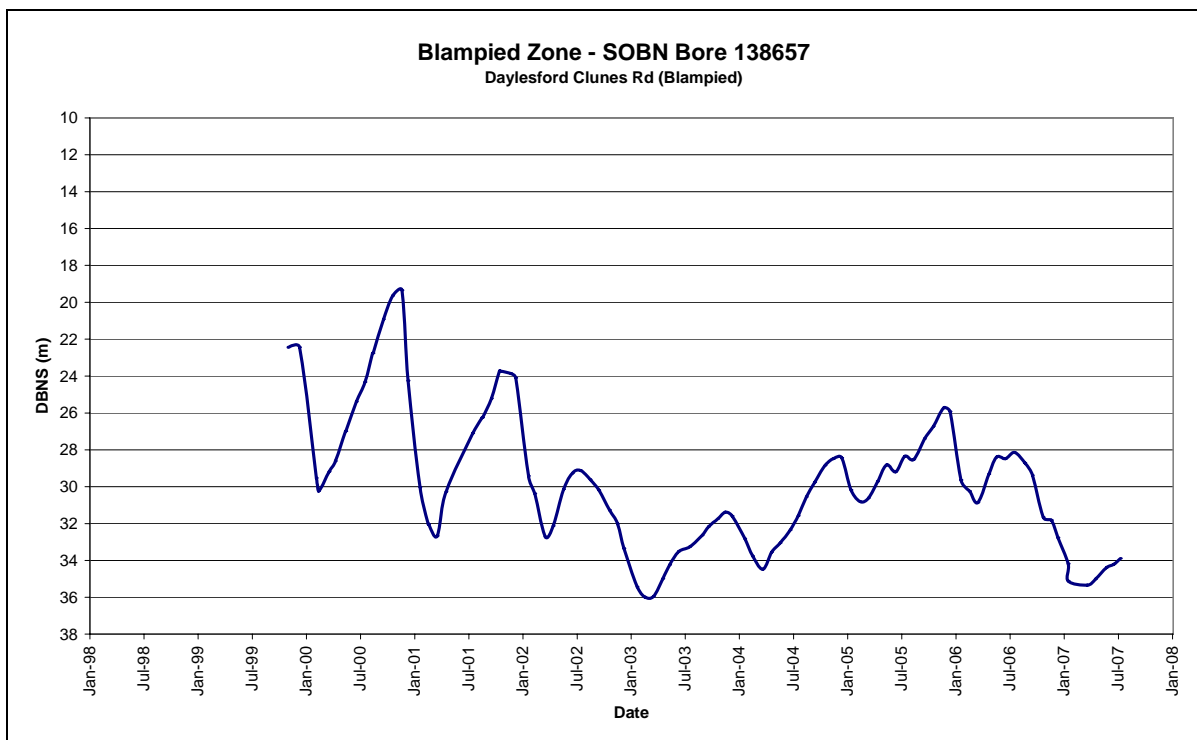
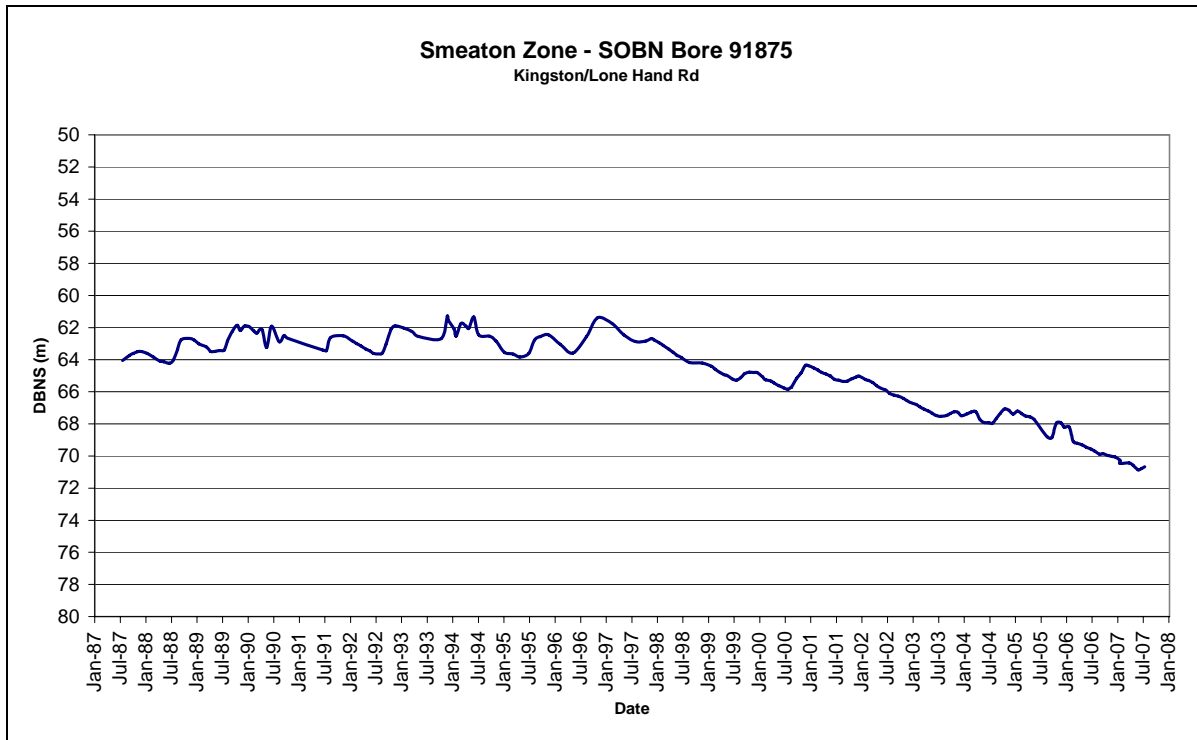
It was outlined in last season's annual report that if dry conditions and low groundwater recharge persist there may be a need for G-MW to manage aquifer stress by introducing seasonal restrictions on licensed use according to the process outlined in section 3.13 of the Groundwater Management Plan explanatory paper. This would necessitate the declaration of a water shortage for the Spring Hill WSPA. G-MW have consulted with the Groundwater Reference Committee and held a public meeting outlining that restrictions will occur in the 2006/2007. Restrictions will include trade restriction and an allocation of licence entitlement to try and manage the shortage of water.

## Appendix A - Monitoring Bore Locations



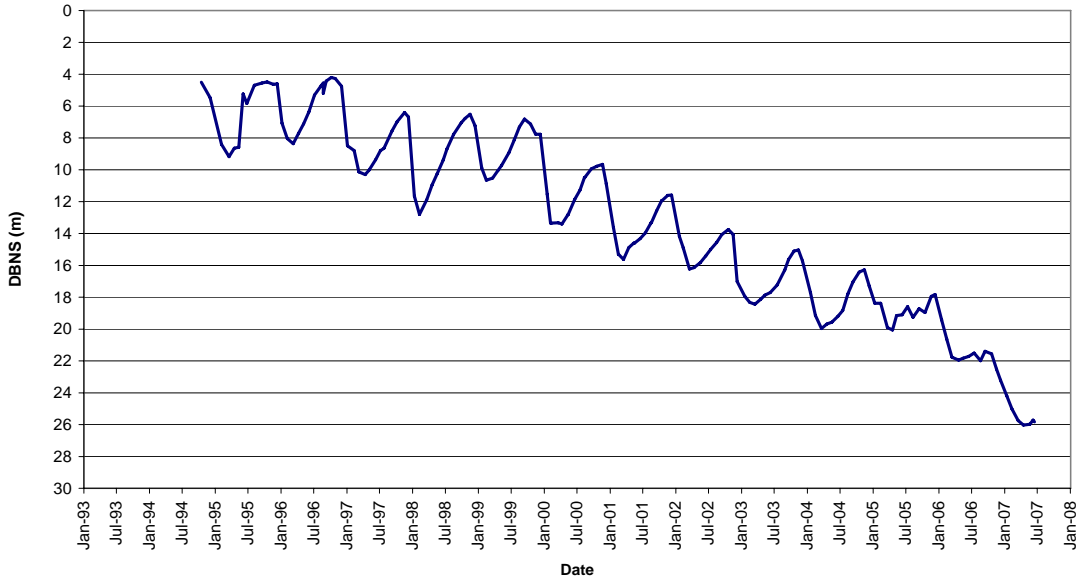
## Appendix B - Hydrographs for Monitoring Bores from Schedule 2.

Graphs updated to last quarterly reading taken July 2007.



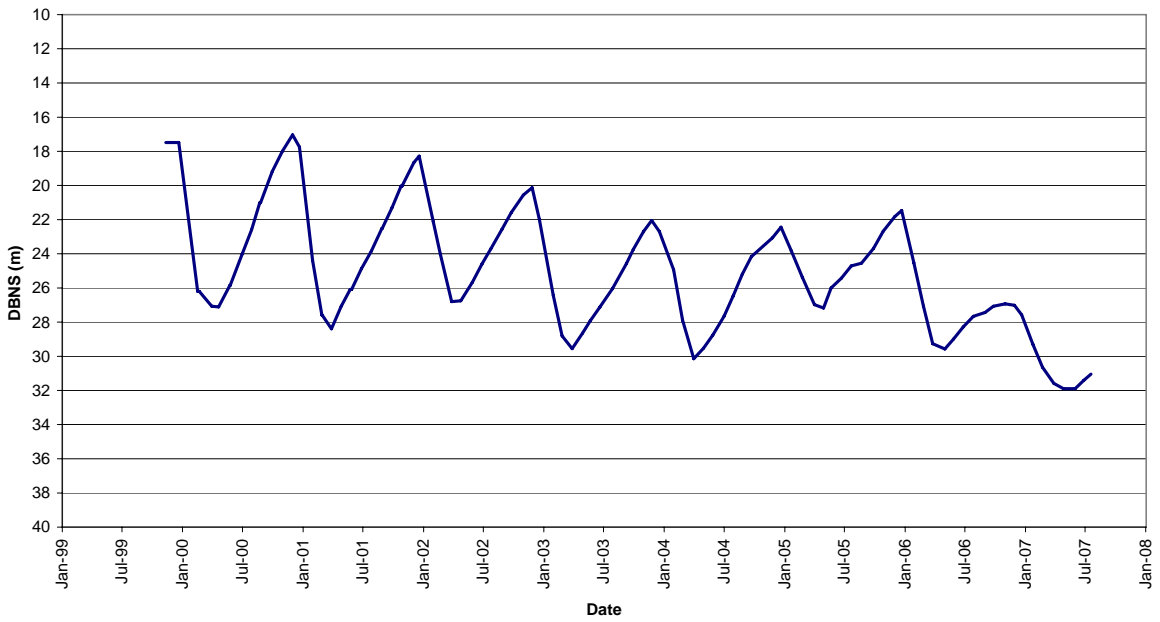
**Forest Hill Zone - SOBN 116382**

Forest Hill Rd (west of Newlyn North)

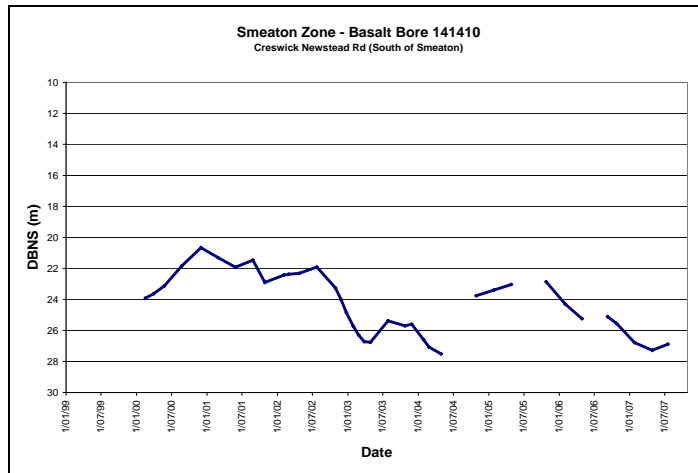
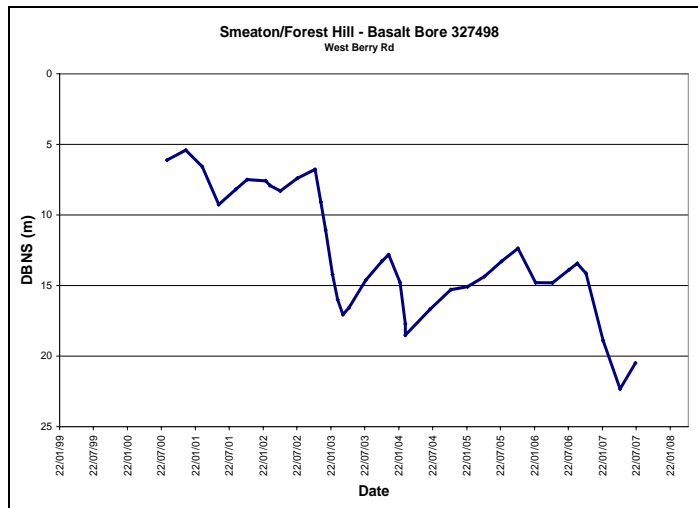
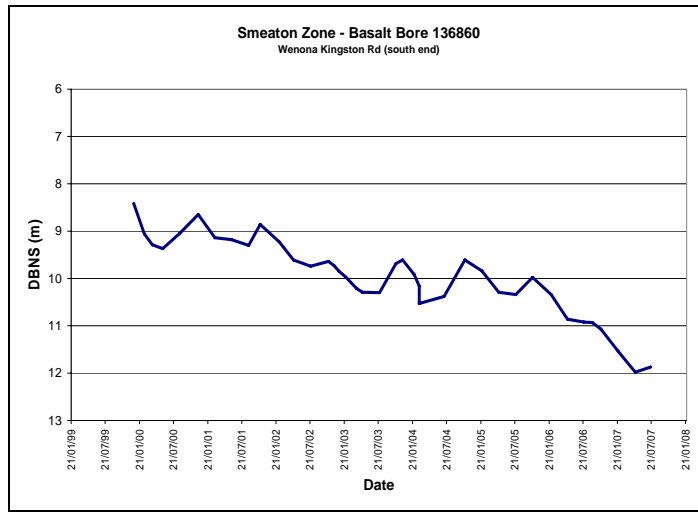


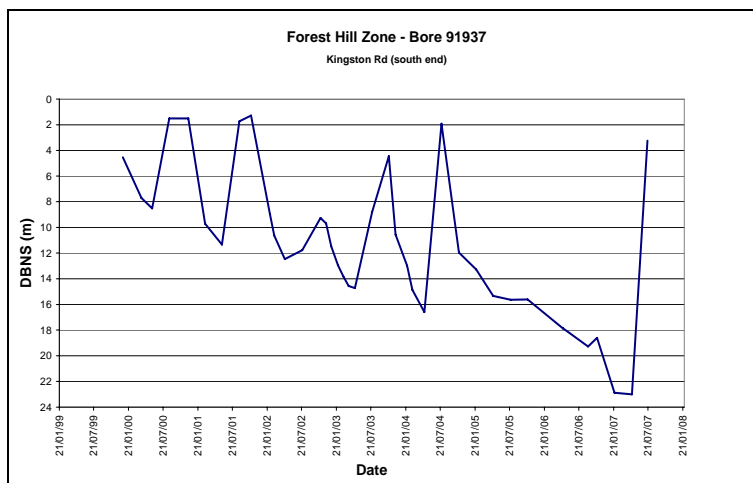
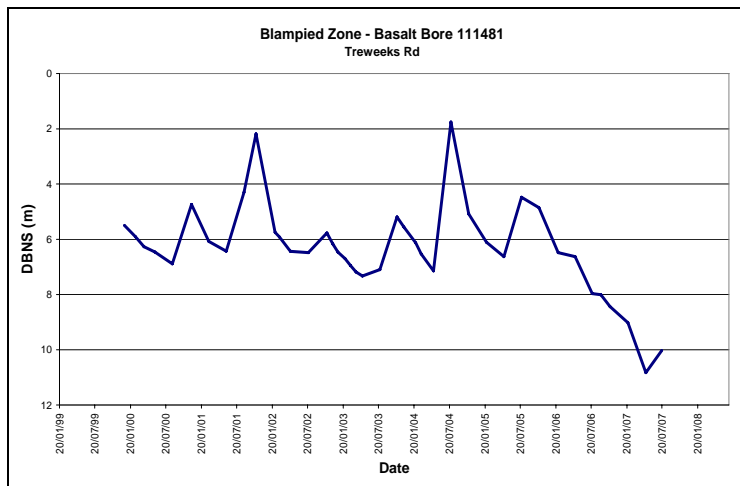
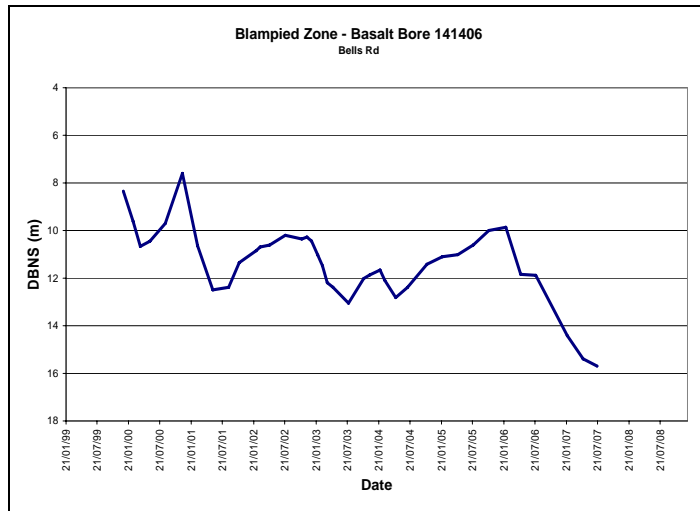
**Forest Hill Zone - SOBN 138658**

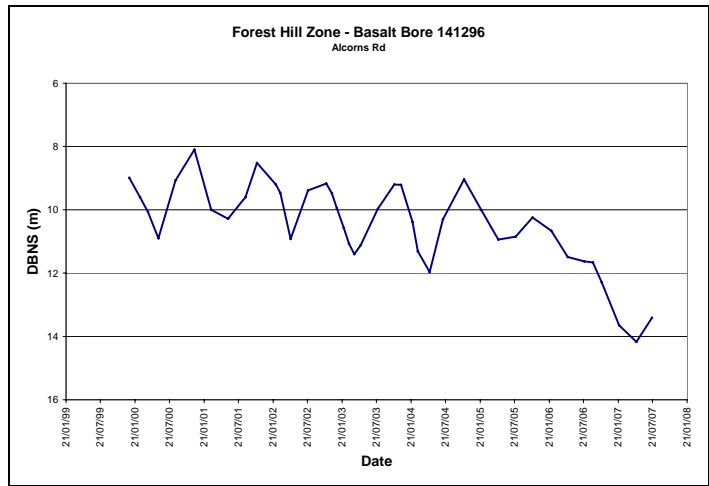
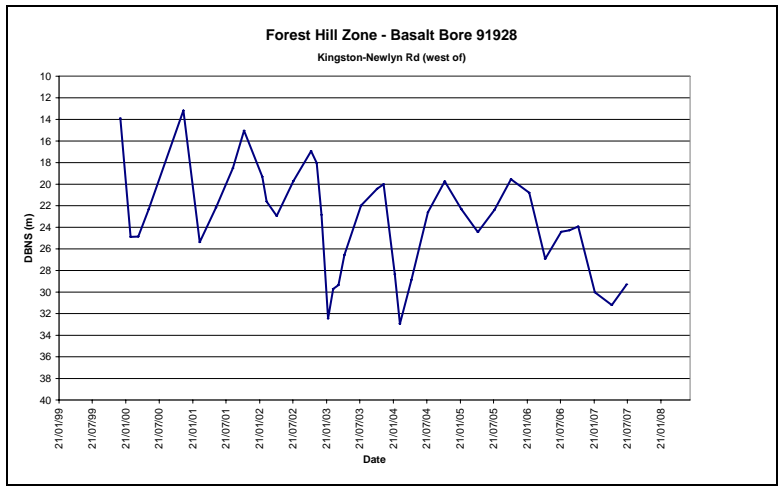
Ballarat-Dalysford Rd



Hydrographs from monitoring bores in Schedule 3.  
 Graphs updated to last quarterly reading taken July 2007.







**Appendix C - Extraction Points & Metered Site Locations.**

