



Appendix C  
Regional Groundwater Quality Data  
(provided by EPA)



MANAGEMENT  
ENGINEERING  
ENVIRONMENT

Environment Protection Authority  
Lower South East Stock Burial Sites  
Assessment of Groundwater Impacts

### Regional Groundwater Data: Nitrate and TDS

Drill hole	NO <sub>3</sub> -N		TDS	
	Date	Concentration (mg/L)	Date	Concentration (mg/L)
6922-3722	20/12/1996	4.4	-	-
6922-3784	23/06/1997	0.3	6/04/1997	407
6922-3863	20/05/1998	0.7	8/04/1998	810
6922-3943	-	-	22/12/1998	501
6923-3883	6/06/1995	0.81	15/03/2000	910
6923-3903	-	-	2/11/1995	744
6923-3921	-	-	18/01/1996	1138
6923-3923	4/04/1996	1.5	5/12/1995	916
6923-3924	4/04/1996	0.9	6/12/1995	843
6923-3935	7/08/1996	7.3	1/06/1996	639
6923-3939	23/06/1997	1	22/05/1997	567
6923-3962	18/02/1997	2.5	6/12/1996	547
6923-3963	20/03/1997	1.1	30/01/1997	1149
6923-3990	25/09/1997	0	6/07/1997	661
6923-3993	31/12/1997	0	14/11/1997	849
6923-4009	20/05/1998	1	17/12/1997	865
6923-4030	2/09/1998	0.1	17/06/1998	1016
6923-4031	2/09/1998	0.2	19/04/2001	1105
6923-4032	2/09/1998	0.3	19/04/2001	716
6923-4033	2/10/1998	0.4	19/04/2001	1105
6923-4034	2/10/1998	0.1	19/04/2001	1049
6923-4039	29/12/1998	1.1	9/04/1998	897
6923-4048	29/12/1998	1.6	30/08/1998	1205
6923-4049	30/12/1998	0.5	16/11/1998	894
6923-4292	9/05/2004	3.8	9/05/2004	1138
7022-4190	-	-	26/02/2001	710
7022-4647	19/12/1996	4.9	1/07/2002	512
7022-9057	19/01/1999	3.6	17/12/1998	794
7023-5052	2/04/1996	0.3	4/02/1996	605
7023-5413	8/05/1997	2	28/01/1997	865
7023-5431	14/07/1997	2.4	16/05/1997	832
7023-5497	30/12/1997	0.2	1/10/1997	633
7023-5558	9/07/1998	0.1	24/04/1998	628
7023-5590	20/05/1998	0.9	11/01/2001	589
7023-5593	20/05/1998	1.7	10/04/1998	849
7023-5626	5/08/1998	6.2	8/04/1998	977
7023-5671	30/12/1998	0.3	15/11/1998	821
7023-5710	19/05/1999	0	4/03/1999	832



### Regional Groundwater Data: "Full Analysis"

Drill hole number	6922-1147	6922-1164	6922-1167	7022-4190
Sample date	7-Mar-99	17-Nov-98	27-Feb-91	7-Nov-96
Analyte	Concentration (mg/L)			
TDS	479	460	430	-
pH <i>(see note 7)</i>	7.3	-	7.3	-
Ca	113	80.7	91	49.6
Mg	15	26.2	19	29.2
Na	48	65.8	53	-
K	2.6	4.2	3.6	29.8
NO <sub>3</sub> -N	-	3.62	-	-
NO <sub>x</sub> -N	1.91	3.62	2.08	-
TKN-N	0.06	0.06	<0.05	-
PO <sub>4</sub> -P	46	0.053	41	-
Cl	104	80	81	183
HCO <sub>3</sub>	368	372	343	6.31
SO <sub>4</sub>	7	10.6	9	-
F	0.12	0.18	0.18	-
Fe	<0.025	<0.005	<0.005	0.19

#### Notes

1. All data sourced from the PIRSA Drillhole Enquiry System (<https://info.pir.sa.gov.au/des/desHome.html>).
2. All data was extracted on 15 December 2004.
3. Bores are selected from within a 10 km radius of SHT19.
4. Bores associated with the six representative stock disposal sites are excluded from the above tables.
5. Only water quality data collected since 1980 is provided in the above tables.
6. Where multiple data records are available for one bore, the latest data is provided in the above tables.
7. All values, with the exception of pH, are provided in mg/L (pH is dimensionless).