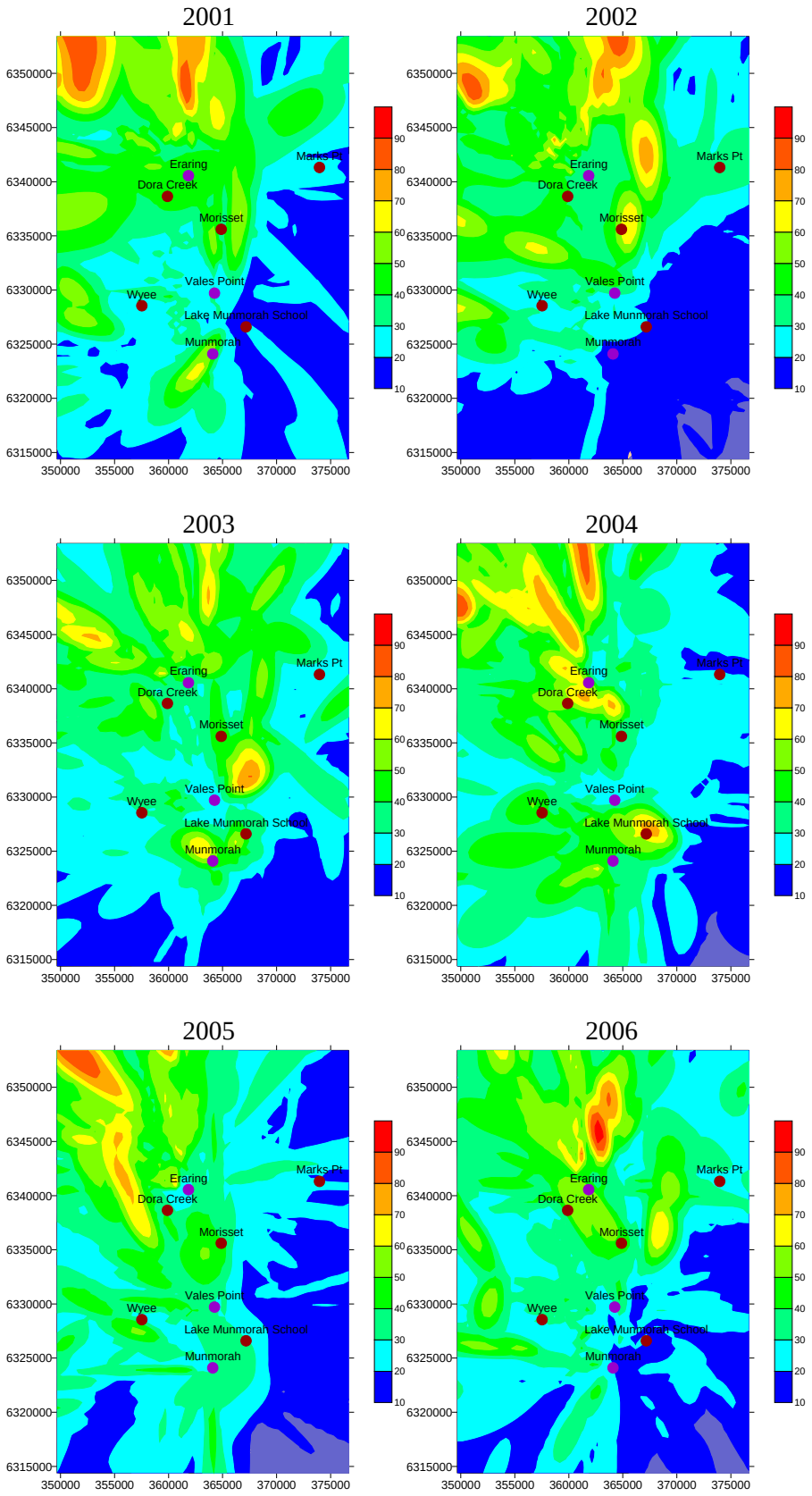

Figure 3.7a: Domain wide 10min first highest concentrations for full load conditions with proposed coal sulfur content of 0.7%

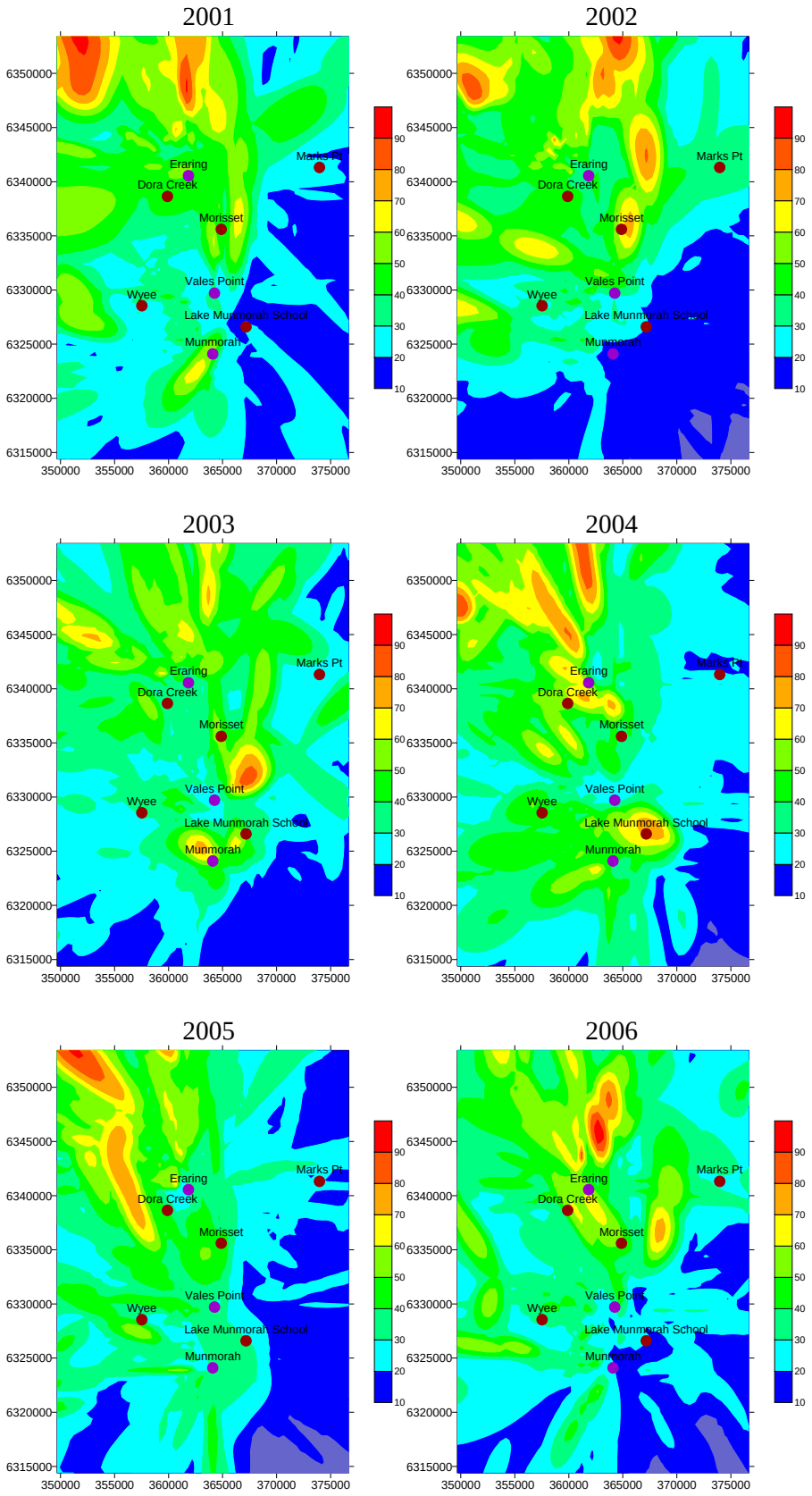

Figure 3.7b: Domain wide 10min first highest concentrations for full load conditions with proposed coal sulfur content of 0.75%

3.5.2 Ten minute exceedances 25pphm

Table 3.8: Maximum number of hours in which the derived 10min peak exceeds 25pphm

2001	Max
PROPOSED 0.7%	36
PROPOSED 0.75%	38
CURRENT	36
2002	**Max**
PROPOSED 0.7%	52
PROPOSED 0.75%	53
CURRENT	51
2003	**Max**
PROPOSED 0.7%	56
PROPOSED 0.75%	57
CURRENT	50
2004	**Max**
PROPOSED 0.7%	46
PROPOSED 0.75%	52
CURRENT	42
2005	**Max**
PROPOSED 0.7%	40
PROPOSED 0.75%	41
CURRENT	39
2006	**Max**
PROPOSED 0.7%	51
PROPOSED 0.75%	51
CURRENT	50

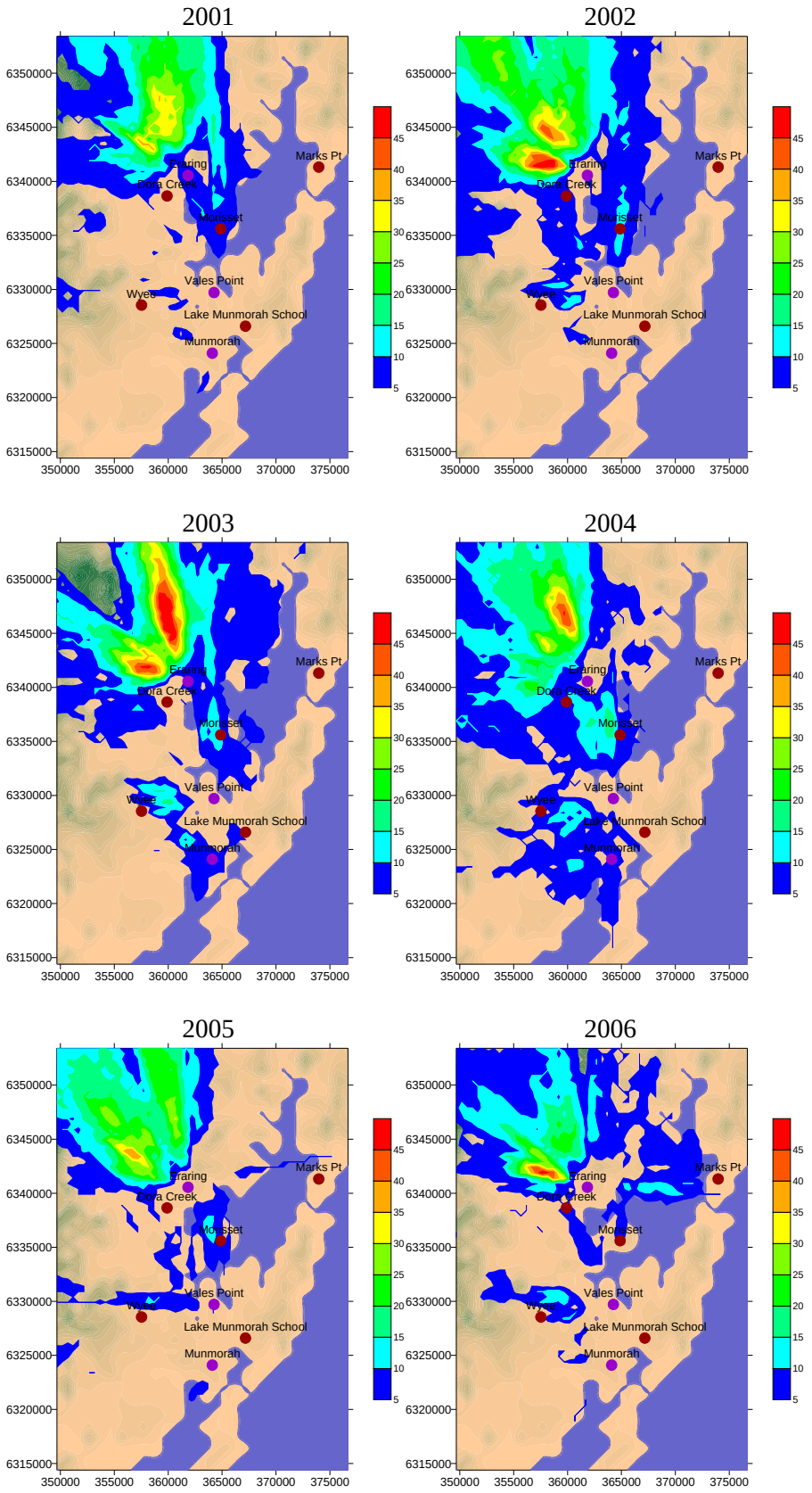

Figure 3.8a: Maximum number of hours in which the derived 10min peak concentration exceeds 25pphm for full load condition with proposed coal sulfur content of 0.7%

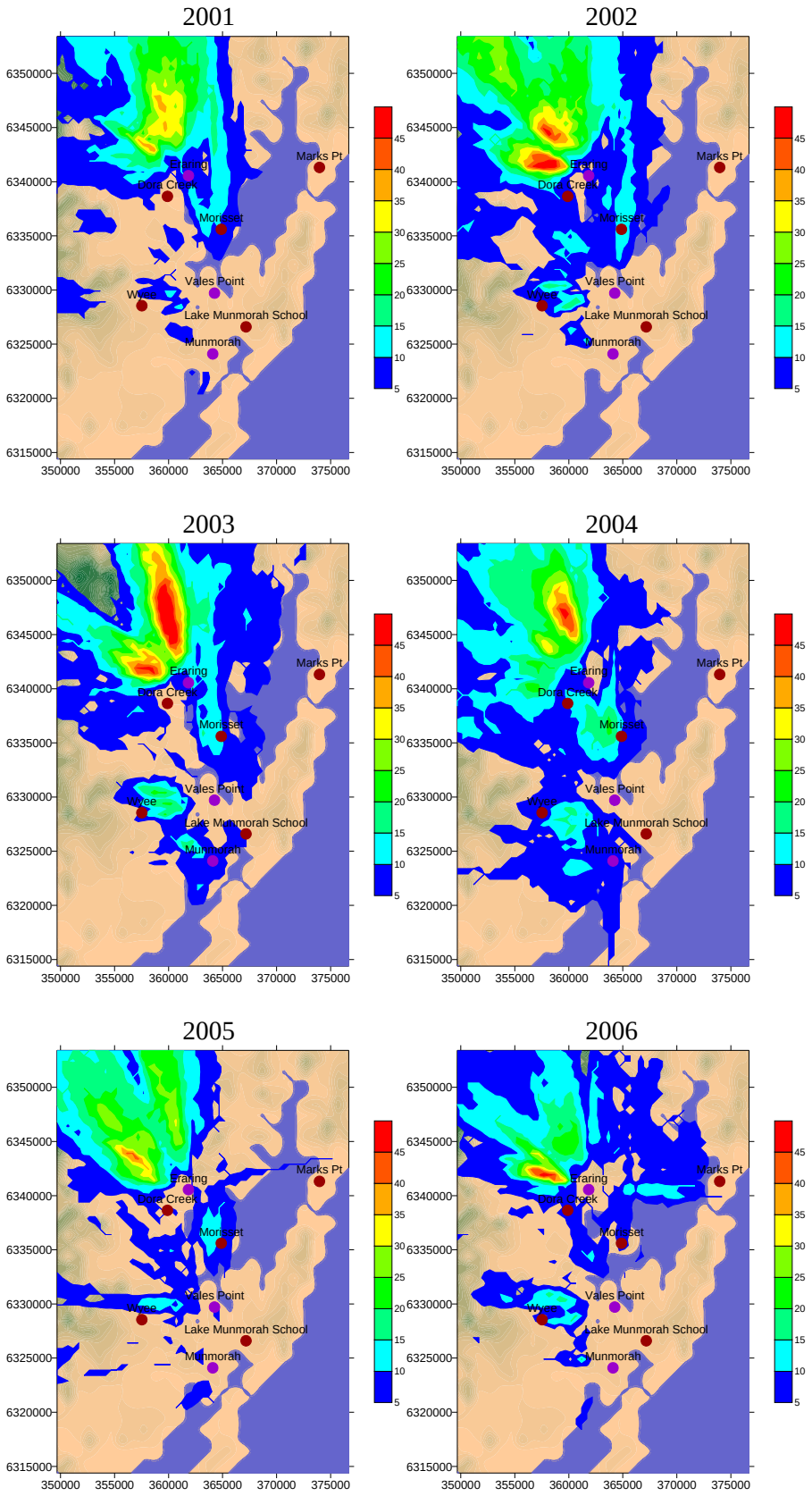

Figure 3.8b: Maximum number of hours in which the derived 10min peak concentration exceeds 25pphm for full load condition with proposed coal sulfur content of 0.75%

3.6 Individual power station contributions to elevated predictions

Figures 3.9a and 3.9b are derived from data presented in tables 3.9a and 3.9b. Each symbol represents the maximum number of days or hours for any one site where predicted concentrations exceed 20pphm for a given year. The horizontal axis spread is simply set to enable each event to be clearly identified for occasions when the value in more then 1 year is identical.

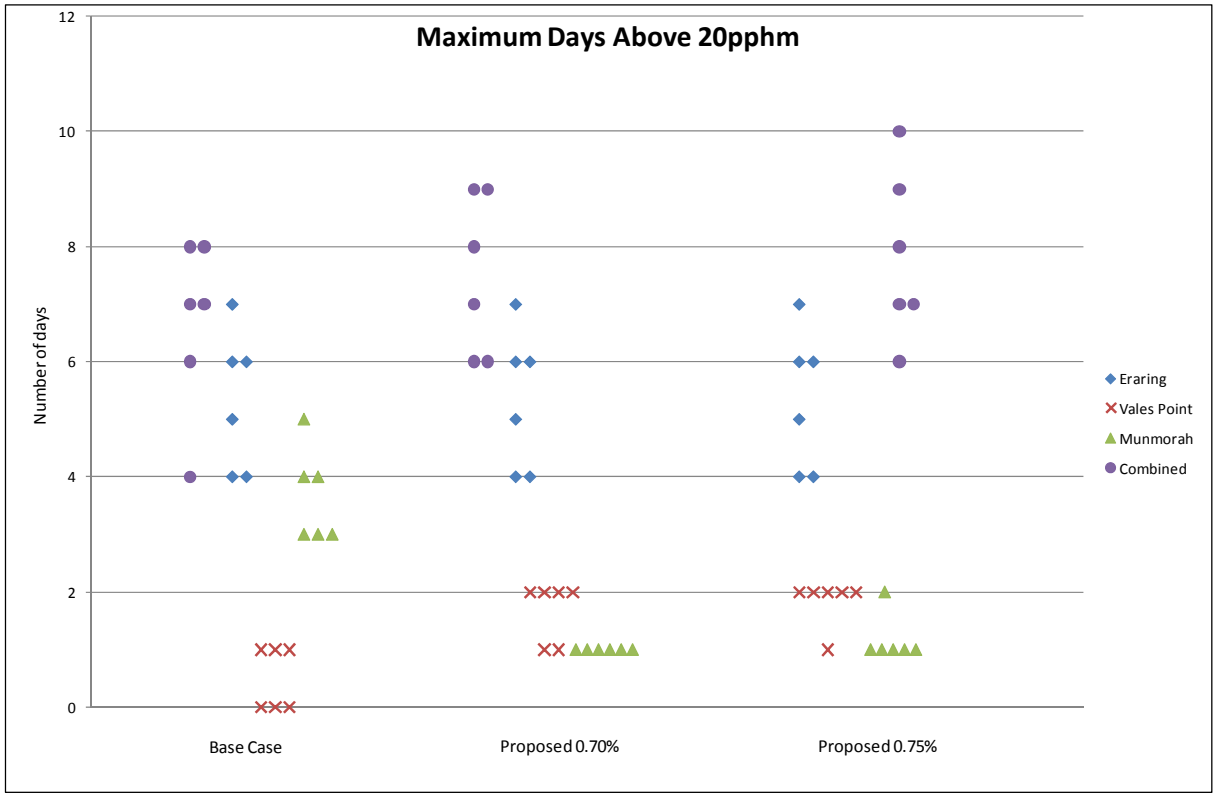

Figure 3.9a: Domain wide maximum days above 20pphm for Central Coast Region for full load conditions

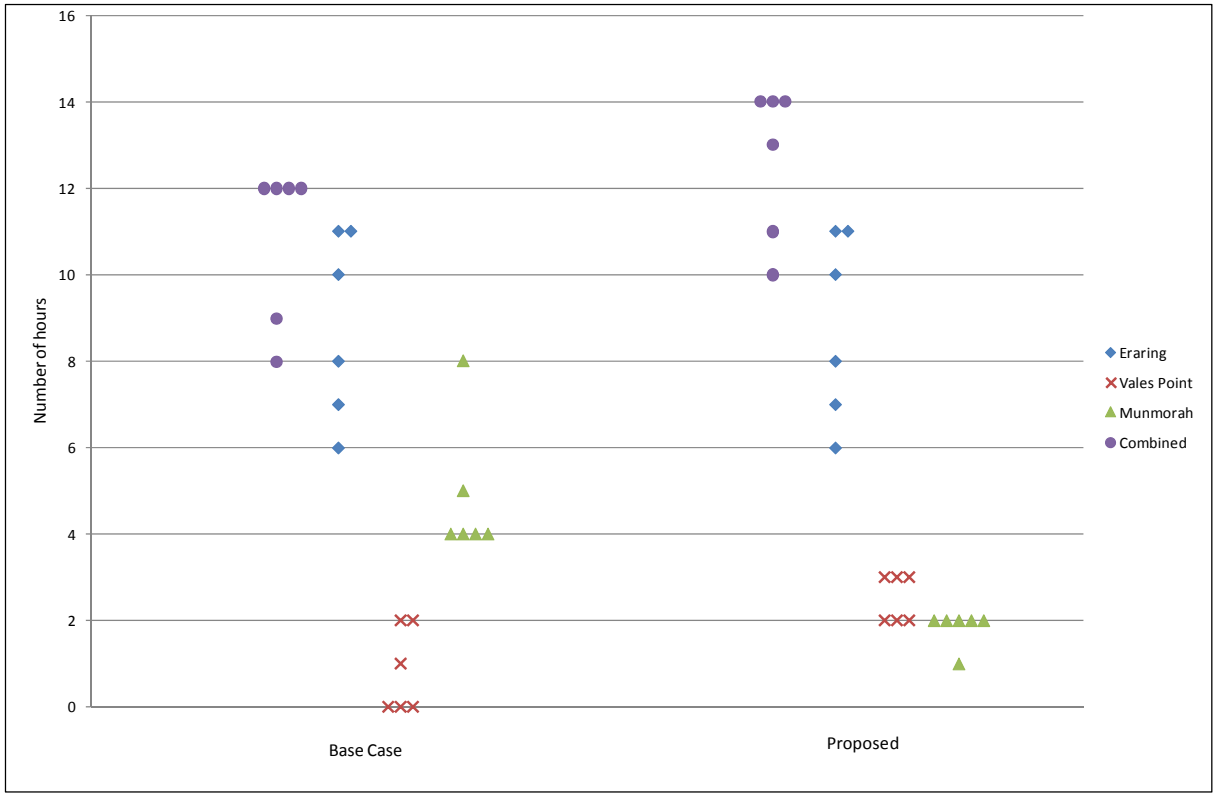

Figure 3.9b: Domain wide maximum hours above 20pphm for Central Coast Region for full load conditions

Table 3.9a: Domain wide maximum days above 20pphm for Central Coast Region for full load conditions

2001	Eraring	Vales Point	Munmorah	Combined
PROPOSED 0.7%	4	1	1	8
PROPOSED 0.75%	7	2	1	8
CURRENT	4	0	4	8
2002				
PROPOSED 0.7%	7	1	1	9
PROPOSED 0.75%	7	1	1	10
CURRENT	7	0	3	8
2003				
PROPOSED 0.7%	6	2	1	9
PROPOSED 0.75%	6	2	2	9
CURRENT	6	1	5	7
2004				
PROPOSED 0.7%	4	2	1	6
PROPOSED 0.75%	4	2	1	6
CURRENT	4	1	3	4
2005				
PROPOSED 0.7%	6	2	1	7
PROPOSED 0.75%	6	2	1	7
CURRENT	6	0	3	7
2006				
PROPOSED 0.7%	5	2	1	6
PROPOSED 0.75%	5	2	1	7
CURRENT	5	1	4	6

Table 3.9b: Domain wide maximum hours above 20pphm for Central Coast Region for full load conditions

2001	Eraring	Vales Point	Munmorah	Combined
PROPOSED 0.7%	11	1	2	12
PROPOSED 0.75%	11	3	2	14
CURRENT	11	0	4	12
2002				
PROPOSED 0.7%	10	1	2	12
PROPOSED 0.75%	10	2	2	14
CURRENT	10	0	5	12
2003				
PROPOSED 0.7%	8	2	1	13
PROPOSED 0.75%	8	3	2	14
CURRENT	8	2	8	12
2004				
PROPOSED 0.7%	6	3	1	10
PROPOSED 0.75%	6	3	1	11
CURRENT	6	2	4	8
2005				
PROPOSED 0.7%	7	2	2	9
PROPOSED 0.75%	7	2	2	10
CURRENT	7	0	4	9
2006				
PROPOSED 0.7%	11	2	1	12
PROPOSED 0.75%	11	2	2	13
CURRENT	11	1	4	12

Table 3.10a: Station contribution based on the peak concentration of an event during the top 329 events identified for full load conditions 2001-2006 at proposed coal sulfur content of 0.7%

Number events (based on the peak concentration of an event)			
Contribution (%)	Eraring	Vales Point	Munmorah
> 90 - 100	133	8	3
> 80 - 90	38	1	2
> 70 - 80	38	0	2
> 60 - 70	35	4	0
> 50 - 60	21	9	4
> 40 - 50	23	13	5
> 30 - 40	12	29	4
> 20 - 30	5	48	19
> 10 - 20	5	66	53
< 10	19	151	237
Total	**329**	**329**	**329**

Table 3.10b: Station contribution based on the average concentration of an event during the top 329 events identified for full load conditions 2001-2006 at proposed coal sulfur content of 0.7%

Number events (based on the average concentration of an event)			
Contribution (%)	Eraring	Vales Point	Munmorah
> 90 - 100	196	15	4
> 80 - 90	16	2	5
> 70 - 80	36	1	1
> 60 - 70	27	4	2
> 50 - 60	9	2	0
> 40 - 50	7	3	3
> 30 - 40	2	10	2
> 20 - 30	2	39	10
> 10 - 20	2	43	31
< 10	32	210	271
Total	**329**	**329**	**329**

Table 3.10c: Station contribution based on the peak concentration of an event during the top 351 events identified for full load conditions 2001-2006 at proposed coal sulfur content of 0.75%

Number events (based on the peak concentration of an event)			
Contribution (%)	Eraring	Vales Point	Munmorah
> 90 - 100	177	35	7
> 80 - 90	18	2	7
> 70 - 80	38	2	1
> 60 - 70	31	7	2
> 50 - 60	9	2	1
> 40 - 50	9	4	4
> 30 - 40	2	14	5
> 20 - 30	2	41	11
> 10 - 20	3	47	37
< 10	62	197	276
Total	**351**	**351**	**351**

Table 3.10d: Station contribution based on the average concentration of an event during the top 351 events identified for full load conditions 2001-2006 at proposed coal sulfur content of 0.75%

Number events (based on the average concentration of an event)			
Contribution (%)	Eraring	Vales Point	Munmorah
> 90 - 100	120	16	3
> 80 - 90	31	3	5
> 70 - 80	38	3	1
> 60 - 70	48	10	2
> 50 - 60	23	10	2
> 40 - 50	26	21	7
> 30 - 40	16	34	6
> 20 - 30	7	56	19
> 10 - 20	11	63	60
< 10	31	135	246
Total	**351**	**351**	**351**