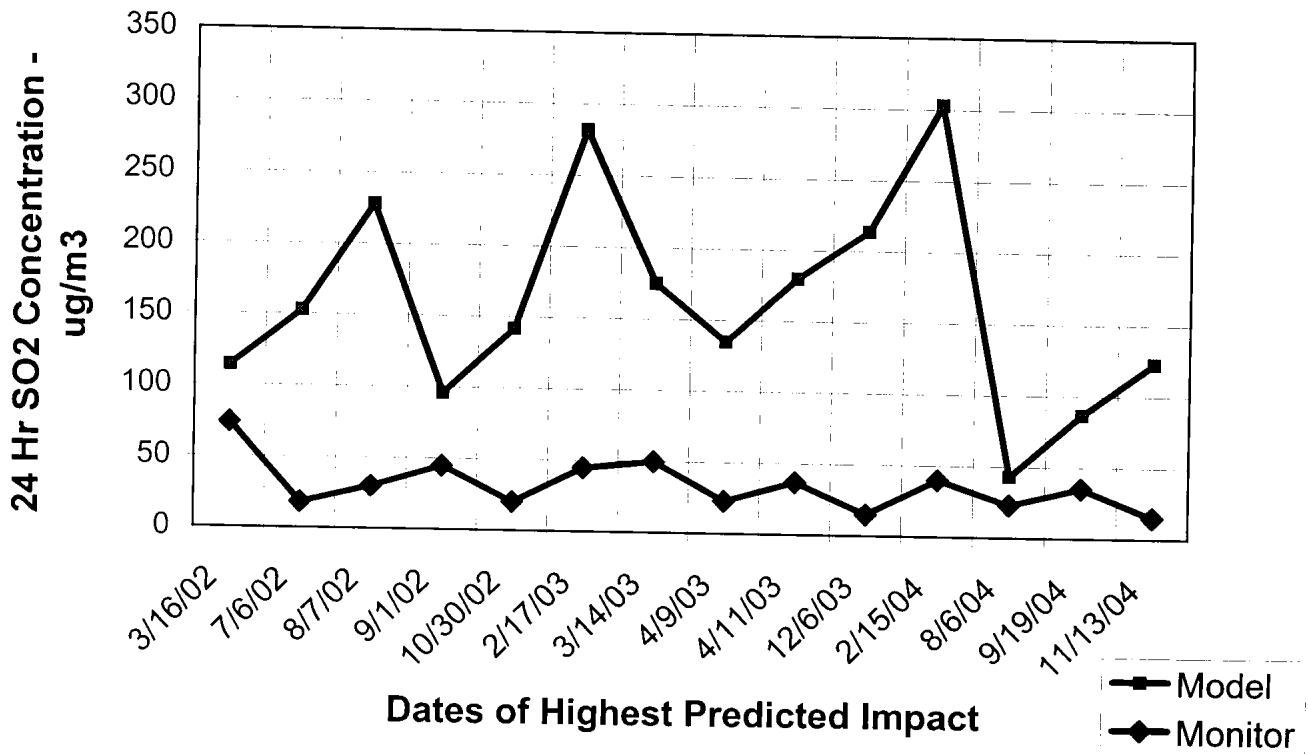
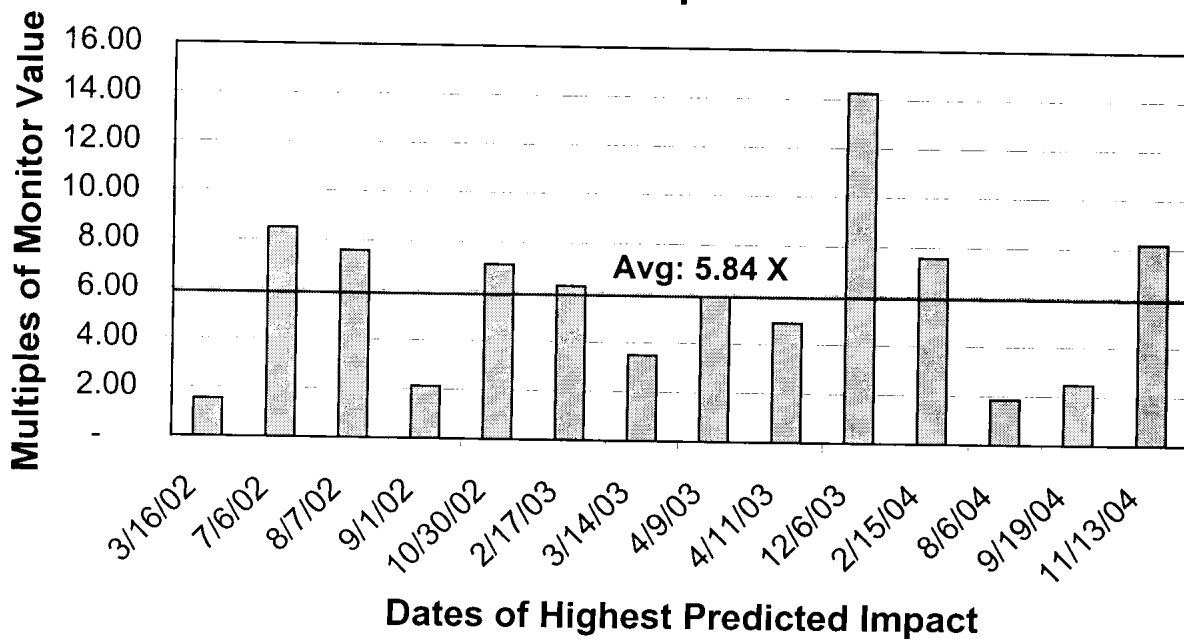


### Ambient 24 Hr SO2 Values: Model vs. Monitor



### Model Overprediction



- DEQ has an SO2 monitor located at 517 North St. Asaph St. in Alexandria.
- AERMOD was used to identify highest predicted 24 hour impact days at the monitor location, using three years of actual meteorological data.
- Predicted AERMOD values exceeded actual monitored SO2 values in every case, by an average of 5.84 times the monitored value.

<b>Top 25 Concentrations Days</b>	<b>SO2 Monitored Concentrations (ug/m3)</b>	<b>24-hr Highest SO2 Concentration using CEM Hourly Emissions</b>	
3/16/02	74	114 3 boilers operating	1.54
7/6/02	18	153 5 boilers operating	8.50
8/7/02	30	228 5 boilers operating	7.60
9/1/02	45	96 2 boilers operating	2.13
10/30/02	20	142 5 boilers operating	7.10
2/17/03	45	282 5 boilers operating	6.27
3/14/03	50	175 5 boilers operating	3.50
4/9/03	23	135 4 boilers operating	5.87
4/11/03	37	180 4 boilers operating	4.86
12/6/03	15	214 5 boilers operating	14.27
2/15/04	40	303 5 boilers operating	7.58
8/6/04	23	43 3 boilers operating	1.87
9/19/04	35	87 3 boilers operating	2.49
11/13/04	15	123 3 boilers operating	8.20
		AVG	5.84
		MIN	1.54
		MAX	14.27