

**Riverside
Toxic Release Inventory
For the Year**

2004

		% Ash (fuel)	Coal Heating Value
Boiler 9 Coal Burned	445,331.67 tons	4.25	8706 Btu/lb
Boiler 8 Coal Burned	51,355.12 tons	4.25	8706 Btu/lb
Boiler 7 Coal Burned	52,403.19 tons	4.25	8706 Btu/lb
Boiler 6 Coal Burned	1,048.06 tons	4.25	8706 Btu/lb
Total Coal	550,138.04 tons		
Total Ash	23,380.87 tons		
Fly Ash Generated	19,925.00 tons		
Bottom Ash Generated = (coal * a	3,455.87 tons		
Fly Ash Sold	3,868.00 tons		
Fly Ash shipped to LGS	16,057.00 tons		
Bottom Ash Sold	4,496.00 tons		
Fly Ash Point Source	0.62 tons		
Fly Ash Fugitive Source	1.33 tons		
Boiler Stack PM Total	220.23 tons		
Ash Water Flow	430.20 million gallons		

Metals										
Chemical	Arsenic	Barium	Chromium	Copper	Lead	Manganese	Mercury	Nickel	Vanadium	Zinc
Air Release	Lbs	Lbs	Lbs	Lbs	Lbs	Lbs	Lbs	Lbs	Lbs	Lbs
Boiler 9 Coal	183	28	160	2	180	220	40	120	0	3
Boiler 8 Coal	20	3	20	0	20	20	0	20	0	0
Boiler 7 Coal	20	3	20	0	20	20	0	20	0	0
Boiler 6 Coal	0	0	0	0	0	0	0	0	0	0
Fly Ash Point Source Dust Released	0.1	2061.6	0.1	103.9	0.3	1.0	0	0.2	521.2	109.9
Fly Ash Fugitive Dust Released	0.3	12.4	0.3	0.6	0.6	2.2	0	0.4	3.1	0.7
Total Air Releases	223	2,109	200	108	221	263	40	161	524	114
Chemical Emission Factor lbs/ton		0.0000630		0.0000056			0.000104		0.0000000	0.0000061
Chemical Concentration lbs/ton coal - wet	0.001613	0.485507	0.007033	0.0176798	0.003721	0.025844	0.000118	0.004691	0.0220046	0.0142734
Waste Release										
Chemical ppm (flyash)	118.038	4667.492	115.875	235.182	226.508	819.837	0.15025	167.936	1180	248.761
Chemical ppm (bottom ash)	174.631	8001.414	189.316	265.333	100.67	1473.331	0.25575	261.233	537	189.532
	Lbs	Lbs	Lbs	Lbs	Lbs	Lbs	Lbs	Lbs	Lbs	Lbs
Fly Ash	482	175,522	2,508	7,879	1,766	8,944	17	1,705	11,180	7,031
Bottom Ash	183	89,188	1,161	1,739	60	4,948	8	715	402	708
Fly Ash Sold	-94	-34,074	-487	-1,530	-343	-1,736	-3	-331	-2,170	-1,365
Bottom Ash Sold	-238	-116,031	-1,510	-2,263	-79	-6,437	-11	-931	-522	-921
Fly Ash Shipped to LGS	388	141,448	2,021	6,350	1,423	7,208	14	1,374	9,009	5,666
Check Sums										
Total metal in coal -air emission	664	264,987	3,669	9,619	1,826	13,955	25	2,420	11,581	7,738
Fly Ash metal + Bottom Ash metal	664	264,710	3,669	9,619	1,826	13,893	25	2,420	11,581	7,738
Landfilled (Fly Ash)	388	141,448	2,021	6,350	1,423	7,208	14	1,374	9,009	5,666
Impoundment (Bottom Ash)	-55	-26,843	-349	-524	-18	-1,489	-3	-215	-121	-213
Total Waste Releases	333	114,605	1,672	5,826	1,405	5,719	11	1,158	8,889	5,453
Water Releases										
Chemical ppm (ash water)	0.00000	0.23300	0.00000		0.00000	0.04900	0.00000	0.00000		
Water Releases	0	822	0	0	0	173	0	0	0	0
Total Water Releases	0	822	0	0	0	173	0	0	0	0
Total Releases All Media	556	117,535	1,872	5,934	1,626	6,155	51	1,319	9,413	5,567
Total Manufactured	981	300,892	4,356	11,256	2,390	15,892	68	2,912	14,276	9,217
Total Manufactured (dioxide)	1,400	370,999	7,037	16,924	2,759	25,149	79	4,499	23,244	13,728

Acid Gases			
Chemical	Hydrochloric Acid	Hydrogen Fluoride	Sulfuric Acid
Air Release	Lbs	Lbs	Lbs
Boiler 9 Coal	57,880	30,780	5,254
Boiler 8 Coal	6,680	3,540	536
Boiler 7 Coal	6,820	3,620	546
Boiler 6 Coal	140	80	11
Total Air Releases	71,520	38,020	6,347
Waste Releases			
No significant releases			
Total Waste Releases	0	0	0
Water Releases			
No significant releases			
Total Water Releases	0	0	0
Total Releases All Media	71,520	38,020	6,347
Total Manufactured	71,520	38,020	6,347

Dioxin and Dioxin-Like Compounds**Air Release**

Boiler combustion Emission Factor from EPRI 4.66E-05 Lbs/trillion Btu
Grams/Lbs 453.59

Grams

Boiler 9 Coal Burned 0.16
Boiler 8 Coal Burned 0.02
Boiler 7 Coal Burned 0.02
Boiler 6 Coal Burned 0.00
Total Air Releases 0.20

Waste Releases

No significant releases

Total Waste Releases 0.00

Water Releases

No significant releases

Total Water Releases 0.00

Total Releases All Media 0.20

Total Manufactured 0.20