

South Coast Air Quality Management District

Annual Publication of Emission Reduction Credit Transactions for Calendar Year 2009

(California Health and Safety Code Section 40709.5)

Effective January 1, 1993, Assembly Bill 3785 (AB 3785) amended Health and Safety Code (HSC) Section 40709.5 to require each air pollution control district to publish a report summarizing Emission Reduction Credit (ERC) transactions¹, and the transaction costs. The South Coast AQMD also presents this information to the California Air Resources Board (CARB), which prepares an annual publication for statewide distribution.

Table 1 is a summary of ERC transactions for Calendar Year 2009. Table 1 totals, by pollutant, the number of ERC transactions, the quantity of ERCs transferred in units of pounds per day and tons per year, and the average price paid for each ERC.

Table 1 ERC Transactions – Calendar Year 2009

Criteria Pollutant	No. of ERC Transfer Transactions²	Quantity of ERCs Transferred³ (lb/day)	Annualized Quantity of ERCs Transferred (ton/year)	Average Transaction Cost⁴ (\$/ton/year)
CO	0	0	0	0
NOx	32	163	29.75	\$398,724
PM10	75	271	49.46	\$1,433,748
ROG	79	1073	206.77	\$59,474
SOx	7	105	19.16	\$434,494

Tables 2a through 2d provide details on the amount and cost of each offset transaction for NOx, PM10, ROG, and SOx, respectively. The Average Transaction Cost (\$/ton/year) does not include barter or subsidiary transactions. This information shall

¹ This report does not include RECLAIM Trading Credit (RTC) transactions.

² Includes all privately held ERC certificates that transferred ownership regardless of cost (see Table 2). Short Term Emission Reduction Credit (STERC) transactions are counted as a single transaction, which includes the yearly increments and the permanent credit.

³ Includes the total amount (pounds per day) of ERCs transferred regardless of cost.

⁴ Based only on those ERCs transactions that include sales cost (see Table 2).

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remain on file at AQMD for public review and distribution. As specified in HSC Section 40709.5(e), the reported information does not disclose the identity of the transacting parties.

Table 2a – NOx Transaction Details

SCAQMD No.	Pollutant	Amount (lbs/day)	Cost (\$/lb/day)	Total Cost (\$)	Amount (ton/yr)	Cost (\$/ton/yr)
SC09-029	NOX	2	Internal Trans.	0	0.37	0 ⁵
SC09-016	NOX	1	10,000	10,000	0.18	54,795
SC09-017	NOX	1	10,000	10,000	0.18	54,795
SC09-018	NOX	1	10,000	10,000	0.18	54,795
SC09-019	NOX	1	10,000	10,000	0.18	54,795
SC09-020	NOX	1	10,000	10,000	0.18	54,795
SC09-021	NOX	1	10,000	10,000	0.18	54,795
SC09-022	NOX	1	10,000	10,000	0.18	54,795
SC09-023	NOX	1	10,000	10,000	0.18	54,795
SC09-024	NOX	2	10,000	20,000	0.37	54,795
SC09-025	NOX	2	10,000	20,000	0.37	54,795
SC09-026	NOX	3	10,000	30,000	0.55	54,795
SC09-002	NOX	1	60,000	60,000	0.18	328,767
SC09-027	NOX	6	10,000	60,000	1.10	54,795
SC09-012	NOX	1	79,000	79,000	0.18	432,877
SC09-015	NOX	1	85,000	85,000	0.18	465,753
SC09-008	NOX	1	106,150	106,150	0.18	581,644
SC09-009	NOX	1	106,150	106,150	0.18	581,644
SC09-032	NOX	1	109,000	109,000	0.18	597,260
SC09-010	NOX	1	120,000	120,000	0.18	657,534
SC09-028	NOX	1	125,000	125,000	0.18	684,932
SC09-033	NOx	2	74,000	148,000	0.37	405,479
SC09-014	NOX	2	85,000	170,000	0.37	465,753
SC09-030	NOX	2	87,750	175,500	0.37	480,822
SC09-011	NOX	3	80,000	240,000	0.55	438,356
SC09-031	NOX	3	87,750	263,250	0.55	480,822
SC09-007	NOX	3	106,150	318,450	0.55	581,644
SC09-004	NOX	5	67,000	335,000	0.91	367,123
SC09-006	NOX	4	110,000	440,000	0.73	602,740
SC09-005	NOX	31	50,000	1,550,000	5.66	273,973
SC09-013	NOX	24	85,000	2,040,000	4.38	465,753
SC09-003	NOX	53	95,000	5,035,000	9.67	520,548
	TOTAL	163			29.75	
	TOTAL WITH \$ AMOUNT	161		11,715,500	29.38	
	AVERAGE COST		72,767			398,724

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Table 2b – PM10 Transaction Details

SCAQMD No.	Pollutant	Amount (lbs/day)	Cost (\$/lb/day)	Total Cost (\$)	Amount (ton/yr)	Cost (\$/ton/yr)
SC09-074	PM10	2	Agent Transaction	0	0.37	0 ⁵
SC09-082	PM10	5	Agent Transaction	0	0.91	0 ⁵
SC09-093	PM10	1	105,000	105,000	0.18	575,342
SC09-094	PM10	1	105,000	105,000	0.18	575,342
SC09-095	PM10	1	105,000	105,000	0.18	575,342
SC09-085	PM10	1	146,000	146,000	0.18	800,000
SC09-037	PM10	1	167,000	167,000	0.18	915,068
SC09-048	PM10	1	167,000	167,000	0.18	915,068
SC09-049	PM10	1	167,000	167,000	0.18	915,068
SC09-051	PM10	1	167,000	167,000	0.18	915,068
SC09-053	PM10	1	167,000	167,000	0.18	915,068
SC09-054	PM10	1	167,000	167,000	0.18	915,068
SC09-099	PM10	1	210,000	210,000	0.18	1,150,685
SC09-102	PM10	1	210,000	210,000	0.18	1,150,685
SC09-103	PM10	1	210,000	210,000	0.18	1,150,685
SC09-104	PM10	1	210,000	210,000	0.18	1,150,685
SC09-105	PM10	1	210,000	210,000	0.18	1,150,685
SC09-106	PM10	1	210,000	210,000	0.18	1,150,685
SC09-109	PM10	1	210,000	210,000	0.18	1,150,685
SC09-055	PM10	1	235,000	235,000	0.18	1,287,671
SC09-084	PM10	2	120,000	240,000	0.37	657,534
SC09-130	PM10	1	260,000	260,000	0.18	1,424,658
SC09-113	PM10	1	270,000	270,000	0.18	1,479,452
SC09-114	PM10	1	270,000	270,000	0.18	1,479,452
SC09-115	PM10	1	270,000	270,000	0.18	1,479,452
SC09-116	PM10	1	270,000	270,000	0.18	1,479,452
SC09-118	PM10	1	270,000	270,000	0.18	1,479,452
SC09-119	PM10	1	270,000	270,000	0.18	1,479,452
SC09-059	PM10	1	297,000	297,000	0.18	1,627,397
SC09-063	PM10	1	320,000	320,000	0.18	1,753,425
SC09-064	PM10	1	320,000	320,000	0.18	1,753,425
SC09-123	PM10	1	335,000	335,000	0.18	1,835,616
SC09-125	PM10	1	335,000	335,000	0.18	1,835,616
SC09-126	PM10	1	335,000	335,000	0.18	1,835,616
SC09-127	PM10	1	335,000	335,000	0.18	1,835,616
SC09-128	PM10	1	335,000	335,000	0.18	1,835,616
SC09-129	PM10	1	335,000	335,000	0.18	1,835,616
SC09-090	PM10	1	350,000	350,000	0.18	1,917,808
SC09-067	PM10	2	208,000	416,000	0.37	1,139,726
SC09-070	PM10	2	208,000	416,000	0.37	1,139,726
SC09-098	PM10	2	210,000	420,000	0.37	1,150,685
SC09-039	PM10	3	167,000	501,000	0.55	915,068
SC09-087	PM10	2	255,000	510,000	0.37	1,397,260
SC09-091	PM10	2	260,000	520,000	0.37	1,424,658
SC09-058	PM10	2	297,000	594,000	0.37	1,627,397
SC09-071	PM10	2	306,000	612,000	0.37	1,676,712
SC09-073	PM10	2	306,000	612,000	0.37	1,676,712

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SC09-097	PM10	3	210,000	630,000	0.55	1,150,685
SC09-107	PM10	3	210,000	630,000	0.55	1,150,685
SC09-065	PM10	2	320,000	640,000	0.37	1,753,425
SC09-066	PM10	2	320,000	640,000	0.37	1,753,425
SC09-092	PM10	2	350,000	700,000	0.37	1,917,808
SC09-117	PM10	3	270,000	810,000	0.55	1,479,452
SC09-100	PM10	4	210,000	840,000	0.73	1,150,685
SC09-122	PM10	3	335,000	1,005,000	0.55	1,835,616
SC09-111	PM10	4	270,000	1,080,000	0.73	1,479,452
SC09-056	PM10	4	297,000	1,188,000	0.73	1,627,397
SC09-057	PM10	4	297,000	1,188,000	0.73	1,627,397
SC09-121	PM10	4	335,000	1,340,000	0.73	1,835,616
SC09-120	PM10	5	335,000	1,675,000	0.91	1,835,616
SC09-061	PM10	6	297,000	1,782,000	1.10	1,627,397
SC09-046	PM10	11	167,000	1,837,000	2.01	915,068
SC09-068	PM10	9	208,000	1,872,000	1.64	1,139,726
SC09-110	PM10	8	241,250	1,930,000	1.46	1,321,918
SC09-060	PM10	7	297,000	2,079,000	1.28	1,627,397
SC09-062	PM10	7	320,000	2,240,000	1.28	1,753,425
SC09-108	PM10	11	210,000	2,310,000	2.01	1,150,685
SC09-101	PM10	12	210,000	2,520,000	2.19	1,150,685
SC09-096	PM10	8	350,000	2,800,000	1.46	1,917,808
SC09-112	PM10	11	270,000	2,970,000	2.01	1,479,452
SC09-088	PM10	13	245,000	3,185,000	2.37	1,342,466
SC09-124	PM10	11	335,000	3,685,000	2.01	1,835,616
SC09-069	PM10	19	208,000	3,952,000	3.47	1,139,726
SC09-089	PM10	13	350,000	4,550,000	2.37	1,917,808
SC09-072	PM10	19	306,000	5,814,000	3.47	1,676,712
	TOTAL	271			49.46	
	TOTAL WITH \$ AMOUNT	264		69,078,000	48.18	
	AVERAGE COST		261,659			1,433,748

Table 2c – ROG Transaction Details

SCAQMD No.	Pollutant	Amount (lbs/day)	Cost (\$/lb/day)	Total Cost (\$)	Amount (ton/yr)	Cost (\$/ton/yr)
SC09-254	ROG	1	Barter Transaction	0	0.18	0 ⁵
SC09-153	ROG	34	Internal Transfer	0	6.21	0 ⁵
SC09-154	ROG	89	Internal Transfer	0	16.24	0 ⁵
SC09-158	ROG	10	Internal Transfer	0	1.83	0 ⁵
SC09-159	ROG	1	Internal Transfer	0	0.18	0 ⁵
SC09-172	ROG	31	Internal Transfer	0	5.66	0 ⁵
SC09-176	ROG	27	Internal Transfer	0	4.93	0 ⁵
SC09-180	ROG	2	Internal Transfer	0	0.37	0 ⁵
SC09-189	ROG	2	Internal Transfer	0	0.37	0 ⁵
SC09-190	ROG	13	Internal Transfer	0	2.37	0 ⁵
SC09-191	ROG	1	Internal Transfer	0	0.18	0 ⁵
SC09-192	ROG	1	Internal Transfer	0	0.18	0 ⁵
SC09-193	ROG	3	Internal Transfer	0	0.55	0 ⁵
SC09-194	ROG	33	Internal Transfer	0	6.02	0 ⁵
SC09-200	ROG	9	Internal Transfer	0	1.64	0 ⁵
SC09-202	ROG	4	Internal Transfer	0	0.73	0 ⁵
SC09-206	ROG	7	Internal Transfer	0	1.28	0 ⁵
SC09-207	ROG	1	Internal Transfer	0	0.18	0 ⁵
SC09-214	ROG	50	Internal Transfer	0	9.13	0 ⁵
SC09-218	ROG	7	Internal Transfer	0	1.28	0 ⁵
SC09-255	ROG	12	Barter Transaction	0	2.19	0 ⁵
SC09-236	ROG	13	Internal Transfer	0	2.37	0 ⁵
SC09-238	ROG	7	Internal Transfer	0	1.28	0 ⁵
SC09-243	ROG	26	Internal Transfer	0	4.75	0 ⁵
SC09-244	ROG	11	Internal Transfer	0	2.01	0 ⁵
SC09-226	ROG	1	6,000	6,000	0.18	32,877
SC09-239	ROG	1	7,800	7,800	0.18	42,740
SC09-211	ROG	1	8,500	8,500	0.18	46,575
SC09-216	ROG	1	9,000	9,000	0.18	49,315
SC09-204	ROG	1	9,500	9,500	0.18	52,055
SC09-205	ROG	1	9,800	9,800	0.18	53,699
SC09-201	ROG	1	10,000	10,000	0.18	54,795
SC09-167	ROG	1	10,750	10,750	0.18	58,904
SC09-242	ROG	2	7,800	15,600	0.37	42,740
SC09-224	ROG	2	9,500	19,000	0.37	52,055
SC09-225	ROG	2	9,500	19,000	0.37	52,055
SC09-228	ROG	2	9,500	19,000	0.37	52,055
SC09-165	ROG	2	9,750	19,500	0.37	53,425
SC09-181	ROG	2	12,000	24,000	0.37	65,753
SC09-210	ROG	3	8,500	25,500	0.55	46,575
SC09-166	ROG	4	8,000	32,000	0.73	43,836
SC09-145	ROG	4	8,500	34,000	0.73	46,575
SC09-163	ROG	4	9,000	36,000	0.73	49,315
SC09-209	ROG	4	9,500	38,000	0.73	52,055
SC09-240	ROG	5	7,800	39,000	0.91	42,740

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SCAQMD No.	Pollutant	Amount (lbs/day)	Cost (\$/lb/day)	Total Cost (\$)	Amount (ton/yr)	Cost (\$/ton/yr)
SC09-143	ROG	5	8,500	42,500	0.91	46,575
SC09-144	ROG	5	8,500	42,500	0.91	46,575
SC09-157	ROG	5	8,500	42,500	0.91	46,575
SC09-162	ROG	5	8,500	42,500	0.91	46,575
SC09-213	ROG	5	8,685	43,425	0.91	47,589
SC09-241	ROG	6	8,000	48,000	1.10	43,836
SC09-141	ROG	7	7,000	49,000	1.28	38,356
SC09-142	ROG	7	7,000	49,000	1.28	38,356
SC09-151	ROG	6	8,500	51,000	1.10	46,575
SC09-237	ROG	6	9,000	54,000	1.10	49,315
SC09-160	ROG	7	8,500	59,500	1.28	46,575
SC09-215	ROG	7	9,250	64,750	1.28	50,685
SC09-156	ROG	8	9,000	72,000	1.46	49,315
SC09-203	ROG	8	9,200	73,600	1.46	50,411
SC09-208	ROG	8	9,500	76,000	1.46	52,055
SC09-195	ROG	9	8,500	76,500	1.64	46,575
SC09-148	ROG	10	8,500	85,000	1.83	46,575
SC09-161	ROG	10	8,500	85,000	1.83	46,575
SC09-222	ROG	6	15,000	90,000	1.10	82,192
SC09-212	ROG	13	8,500	110,500	2.37	46,575
SC09-220	ROG	12	9,500	114,000	2.19	52,055
SC09-168	ROG	12	10,000	120,000	2.19	54,795
SC09-139	ROG	10	13,000	130,000	1.83	71,233
SC09-140	ROG	10	13,000	130,000	1.83	71,233
SC09-182	ROG	16	9,000	144,000	2.92	49,315
SC09-138	ROG	12	14,000	168,000	2.19	76,712
SC09-150	ROG	20	8,500	170,000	3.65	46,575
SC09-136	ROG	20	14,000	280,000	3.65	76,712
SC09-134	ROG	22	14,000	308,000	4.02	76,712
SC09-223	ROG	25	15,000	375,000	4.56	82,192
SC09-155	ROG	77	6,000	462,000	14.05	32,877
SC09-146	ROG	70	8,500	595,000	12.78	46,575
SC09-221	ROG	83	15,000	1,245,000	15.15	82,192
SC09-217	ROG	102	14,400	1,468,800	18.62	78,904
	TOTAL	1133			206.77	
	TOTAL WITH \$ AMOUNT	678		7,359,025	123.74	
	AVERAGE COST		10,854			59,474

Table 2d – SOx Transaction Details

SCAQMD No.	Pollutant	Amount (lbs/day)	Cost (\$/lb/day)	Total Cost (\$)	Amount (ton/yr)	Cost (\$/ton/yr)
SC09-249	SOx	1	86,000	86,000	0.18	471,233
SC09-248	SOx	3	77,000	231,000	0.55	421,918
SC09-250	SOx	6	50,000	300,000	1.10	273,973
SC09-247	SOx	4	78,750	315,000	0.73	431,507
SC09-253	SOX	20	81,500	1,630,000	3.65	446,575
SC09-252	SOX	26	81,500	2,119,000	4.75	446,575
SC09-251	SOX	45	81,000	3,645,000	8.21	443,836
	TOTAL	105			19.16	
	TOTAL WITH \$ AMOUNT	105		8,326,000	19.16	
	AVERAGE COST		79,295			434,494

⁵ Subsidiary Transaction