Attachment K2-24
SLOCAPCD Emission Inventory Data
Santa Maria Facility

Following page (2): Excerpt from 2011 Inventory Data.

Page 3: Excerpt from 2012 Inventory Data.

Page 4: Excerpt from 2013 Inventory Data.

Company Name	SIC	SCC	Process Description	TOG	ROG	CO	NOx	SO2	PM	PM-10	PM-2.5
				UNITS: tons p	tons/yr						
revised 09/08/09			**FACILITY EMISSION SUMMARY AND CROSS REFER**								
ConocoPhillips Santa Maria Refinery	2911	20200102	G51-4 cool. water circ. pump, diesel, 270 hp	0.005	0.003	0.014	0.067	0.001	0.005	0.005	0.005
		20200102	G515-3/4 firewater pump,diesel, 370 hp, 2ea	0.021	0.013	0.058	0.271	0.003	0.019	0.019	0.018
		20200102	GE-522 CP Coke Pile Water pump	0.005	0.003	0.014	0.067	0.001	0.005	0.005	0.005
		20200102	GB-524S, air compressor, diesel, 215 hp	0.028	0.018	0.076	0.353	0.004	0.025	0.024	0.024
		20200102	GB-1015, CP air compressor, diesel, 115 hp	0.012	0.008	0.033	0.154	0.002	0.011	0.011	0.010
		30600106	B2A 60 mmBtu/h f.g. crude heater	2.430	1.215	0.000	7.119	11.873	1.679	1.595	1.561
		30600106	B2B 60 mmBtu/h f.g. crude heater	2.221	1.111	0.000	6.818	16.643	1.535	1.458	1.427
		30600106	B62A 8 mmBtu/h f.g. vacuum heater	0.248	0.124	0.082	1.071	1.175	0.250	0.238	0.233
		30600106	B62B 8 mmBtu/h f.g. vacuum heater	0.354	0.177	0.038	1.008	1.203	0.246	0.233	0.228
		30600106	B102A 81 mmBtu/h f.g. coker heater	2.674	1.337	0.225	7.976	23.211	1.840	1.748	1.711
		30600106	B102B 81 mmBtu/h f.g. coker heater	2.703	1.352	0.726	8.229	13.162	1.875	1.781	1.744
		30600106	B201A 3 mmBtu/h f.g. steam superheater	0.129	0.064	0.000	1.552	0.759	0.089	0.084	0.083
		30600106	B201B 4 mmBtu/h f.g. steam superheater	0.121	0.061	0.000	1.461	0.926	0.084	0.080	0.078
		10200701	B504 117 mmBtu/h f.g. boiler	2.360	1.180	0.388	6.609	10.964	1.631	1.631	1.631
		10200701	B506 100 mmBtu/hr f.g. boiler	2.221	1.111	0.398	6.714	9.351	1.535	1.535	1.535
		10200701	B505 127 mmBtu/hr f.g. generator	3.694	1.847	0.179	11.201	15.483	2.552	2.552	2.552
		10200701	B507 99.9 mBtu/hr	2.440	1.220	0.126	5.340	9.232	1.686	1.686	1.686
		40200110	miscellaneous organic solvent use	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		30609904	B602A 1 mmBtu/h sulfur plant incinerator	0.083	0.041	0.630	0.750	14.600	0.057	0.057	0.057
		30609904	B602B 1 mmBtu/h sulfur plant incinerator	0.083	0.041	0.630	0.750	13.600	0.057	0.057	0.057
		30609904	B702 5 mmBtu/h tail gas combustor	0.198	0.099	1.512	1.800	2.253	0.137	0.137	0.137
		30600903	C-451 flare stack	0.288	0.101	0.762	0.140	0.017	0.000	0.000	0.000
		30600505	oily water treatment system	4.805	4.665	0.000	0.000	0.000	0.000	0.000	0.000
		30600701	cooling towers	2.821	2.821	0.000	0.000	0.000	0.000	0.000	0.000
		39999996	sulfur pit vents	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		30600811	pipeline valves, gas stream	0.291	0.174	0.000	0.000	0.000	0.000	0.000	0.000
		30600817	compressor seals, gas stream	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000
		30600822	pressure relief valves, gas	0.015	0.009	0.000	0.000	0.000	0.000	0.000	0.000
		30600812	pipeline valves, light oil	0.231	0.165	0.000	0.000	0.000	0.000	0.000	0.000
		30600817	pump seals, light liquid	0.065	0.047	0.000	0.000	0.000	0.000	0.000	0.000
		30601402	coke cooling water tnks, 405/406	3.365	3.365	0.000	0.000	0.000	0.000	0.000	0.000
		40301021	fixed roof, tank 1, diesel oil	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		40301012	fixed roof, tank 100, recov. oil	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		40301012	fixed roof, tank 101, recov. oil	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		40301099	fixed roof, tank 115, gland oil	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000
		40301015	fixed roof, tank 550, naphtha	0.153	0.140	0.000	0.000	0.000	0.000	0.000	0.000
		40301015	fixed roof, tank 551, naphtha	0.153	0.140	0.000	0.000	0.000	0.000	0.000	0.000
		40301197	floating roof, 800, gas oil	1.182	1.078	0.000	0.000	0.000	0.000	0.000	0.000
		40301197	floating roof, 801, gas oil	1.182	1.078	0.000	0.000	0.000	0.000	0.000	0.000
		40301117	floating roof, 900, crude oil	3.026	2.760	0.000	0.000	0.000	0.000	0.000	0.000
		40301117	floating roof, 901, crude oil	3.026	2.760	0.000	0.000	0.000	0.000	0.000	0.000
		40301117	floating roof, 903, crude oil	1.775	1.618	0.000	0.000	0.000	0.000	0.000	0.000
		40301117	BUGs	0.005	0.003	0.013	0.060	0.004	0.004	0.004	0.004
Carbon Plant - ConocoPhillips - Santa	2999	30600106	13 mmBtu/hr rotary kiln, combined fuel gas	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
		30601401	cold stack with baghouse (kiln)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		20200102	rental water pump, 225 hp	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
		30510404	cooler stack to wet scrubber	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		30510304	green coke storage	0.000	0.000	0.000	0.000	0.000	0.320	0.160	0.047
		30510104	rail car loading, baghouse	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		30510104	handling and conveying	0.000	0.000	0.000	0.000	0.000	0.270	0.135	0.039
facility total:				44.416	31.950	5.905	69.510	144.465	15.909	15.233	14.871

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	A	B	C	D	E	I	J	K	L	M	N	O
1		Link to the color key (at bottom of this spreadsheet)					#VALUE!					
2						tons/yr						
3	Fac ID	Company Name	SIC	SCC	Process Description	ROG	CO	NOx	SO2	PM	PM-10	PM-2.5
4												
5	revised 09/08/09				FACILITY EMISSION SUMMARY A							
58	13	ConocoPhillips Santa Maria Refinery	2911	20200102	G51-4 cool. water circ. pump, ng, 284 hp	0.402	0.048	0.104	0.001	0.018	0.017	0.017
59				20200102	G515-3/4 firewater pump,diesel, 370 hp, 2ea	0.015	0.064	0.298	0.003	0.021	0.020	0.020
60				20200102	GE-522 CP Coke Pile Water pump	0.001	0.002	0.010	0.000	0.001	0.001	0.001
61				20200102	GB-524S, air compressor, diesel, 215 hp	0.083	0.359	1.673	0.020	0.118	0.115	0.114
62				20200102	GB-1015, CP air compressor, diesel, 115 hp	0.018	0.078	0.360	0.004	0.025	0.025	0.025
63				30600106	B2A 60 mmBtu/h f.g. crude heater	1.191	0.000	6.978	11.637	1.645	1.563	1.530
64				30600106	B2B 60 mmBtu/h f.g. crude heater	1.115	0.000	6.843	16.703	1.540	1.463	1.432
65				30600106	B62A 8 mmBtu/h f.g. vacuum heater	0.116	0.076	0.999	1.097	0.233	0.222	0.217
66				30600106	B62B 8 mmBtu/h f.g. vacuum heater	0.189	0.040	1.077	1.285	0.262	0.249	0.244
67				30600106	B102A 81 mmBtu/h f.g. coker heater	1.224	0.206	7.301	21.248	1.684	1.600	1.566
68				30600106	B102B 81 mmBtu/h f.g. coker heater	1.215	0.652	7.397	11.830	1.685	1.601	1.567
69				30600106	B201A 3 mmBtu/h f.g. steam superheater	0.060	0.000	1.455	0.712	0.083	0.079	0.078
70				30600106	B201B 4 mmBtu/h f.g. steam superheater	0.061	0.000	1.461	0.926	0.084	0.080	0.078
71				10200701	B504 117 mmBtu/h f.g. boiler	1.501	0.493	8.409	13.950	2.075	2.075	2.075
72				10200701	B506 100 mmBtu/hr f.g. boiler	1.231	0.442	7.443	10.366	1.701	1.701	1.701
73				10200701	B505 127 mmBtu/hr f.g. generator	1.876	0.182	11.375	15.723	2.592	2.592	2.592
74				10200701	B507 99.9 mBtu/hr	1.041	0.108	4.557	7.878	1.439	1.439	1.439
75				30601402	Coke Drum Venting and Cutting	1.020						
76				40200110	miscellaneous organic solvent use	1.368	0.000	0.000	0.000	0.000	0.000	0.000
77				30609904	B602A 1 mmBtu/h sulfur plant incinerator	0.041	0.630	0.750	14.600	0.057	0.057	0.057
78				30609904	B602B 1 mmBtu/h sulfur plant incinerator	0.041	0.630	0.750	13.600	0.057	0.057	0.057
79				30609904	B702 5 mmBtu/h tail gas combustor	0.107	1.638	1.950	2.678	0.148	0.148	0.148
80				30600903	C-451 flare stack	0.101	0.762	0.140	0.017	0.000	0.000	0.000
81				30600505	oily water treatment system	4.665	0.000	0.000	0.000	0.000	0.000	0.000
82				30600701	cooling towers	2.821	0.000	0.000	0.000	0.000	0.000	0.000
83				39999996	sulfur pit vents	0.000	0.000	0.000	0.000	0.000	0.000	0.000
84				30600811	pipeline valves, gas stream	0.199	0.000	0.000	0.000	0.000	0.000	0.000
85				30600817	compressor seals, gas stream	0.001	0.000	0.000	0.000	0.000	0.000	0.000
86				30600822	pressure relief valves, gas	0.007	0.000	0.000	0.000	0.000	0.000	0.000
87				30600812	pipeline valves, light oil	0.167	0.000	0.000	0.000	0.000	0.000	0.000
88				30600817	pump seals, light liquid	0.053	0.000	0.000	0.000	0.000	0.000	0.000
89				30601402	coke cooling water tnks, 405/406	3.365	0.000	0.000	0.000	0.000	0.000	0.000
90				40301021	fixed roof, tank 1, diesel oil	0.000	0.000	0.000	0.000	0.000	0.000	0.000
91				40301012	fixed roof, tank 100, recov. oil	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92				40301012	fixed roof, tank 101, recov. oil	0.000	0.000	0.000	0.000	0.000	0.000	0.000
93				40301099	fixed roof, tank 115, gland oil	0.001	0.000	0.000	0.000	0.000	0.000	0.000
94				40301015	fixed roof, tank 550, naphtha	0.474	0.000	0.000	0.000	0.000	0.000	0.000
95				40301015	fixed roof, tank 551, naphtha	0.270	0.000	0.000	0.000	0.000	0.000	0.000
96				40301197	floating roof, 800, gas oil	1.005	0.000	0.000	0.000	0.000	0.000	0.000
97				40301197	floating roof, 801, gas oil	1.005	0.000	0.000	0.000	0.000	0.000	0.000
98				40301117	floating roof, 900, crude oil	2.791	0.000	0.000	0.000	0.000	0.000	0.000
99				40301117	floating roof, 901, crude oil	2.791	0.000	0.000	0.000	0.000	0.000	0.000
100				40301117	floating roof, 903, crude oil	1.737	0.000	0.000	0.000	0.000	0.000	0.000
101				40301117	BUGs	0.003	0.014	0.067	0.004	0.005	0.005	0.005
102		Carbon Plant - ConocoPhillips - Santa M	2999	30600106	13 mmBtu/hr rotary kiln, combined fuel gas	n/a	n/a	n/a	n/a	n/a	n/a	n/a
103				30601401	cold stack with baghouse (kiln)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
104				20200102	rental water pump, 225 hp	n/a	n/a	n/a	n/a	n/a	n/a	n/a
105				30510404	cooler stack to wet scrubber	0.000	0.000	0.000	0.000	0.000	0.000	0.000
106				30510304	green coke storage	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107				30510104	rail car loading, baghouse	0.000	0.000	0.000	0.000	0.000	0.000	0.000
108				30510104	handling and conveying	0.000	0.000	0.000	0.000	0.280	0.140	0.041
109		facility total:				35.374	6.425	71.397	144.282	15.754	15.249	15.003

trklst13.xls

	A	B	C	D	E	I	J	K	L	M	N	O
1		Link to the color key (at bottom of this spreadsheet)										
2						tons/yr						
3	Fac ID	Company Name	SIC	SCC	Process Description	ROG	CO	NOx	SO2	PM	PM-10	PM-2.5
4												
5	revised 09/08/09				**FACILITY EMISSION SUMMARY**							
58	13	**Phillips 66 Santa Maria Refinery**	2911	20200102	G51-4 cool. water circ. pump, n.g, 270 hp	0.041	0.182	0.079	0.001	0.008	0.008	0.008
59				20200102	G515-3/4 firewater pump,diesel, 370 hp, 2ea	0.018	0.078	0.363	0.004	0.026	0.025	0.025
60				20200102	GE-522 CP Coke Pile Water pump	0.012	0.053	0.246	0.003	0.017	0.017	0.017
61				20200102	GB-524S, air compressor, diesel, 215 hp	0.033	0.141	0.656	0.008	0.046	0.045	0.045
62				20200102	GB-1015, CP air compressor, diesel, 115 hp	0.028	0.121	0.560	0.007	0.039	0.039	0.038
63				20200102	Sullair 900H Backup air compressor, 215 hp	0.011	0.047	0.217	0.003	0.015	0.015	0.015
64				30600106	B2A 60 mmBtu/h f.g. crude heater	1.660	0.013	7.927	1.982	1.737	1.650	1.616
65				30600106	B2B 60 mmBtu/h f.g. crude heater	1.670	0.014	7.790	3.285	1.748	1.661	1.626
66				30600106	B62A 8 mmBtu/h f.g. vacuum heater	0.168	0.334	0.902	1.249	0.254	0.242	0.237
67				30600106	B62B 8 mmBtu/h f.g. vacuum heater	0.201	0.015	1.111	1.493	0.304	0.289	0.283
68				30600106	B102A 81 mmBtu/h f.g. coker heater	1.231	0.014	7.632	2.853	1.864	1.771	1.734
69				30600106	B102B 81 mmBtu/h f.g. coker heater	1.209	25.161	8.430	2.089	1.831	1.740	1.703
70				30600106	B201A 3 mmBtu/h f.g. steam superheater	0.058	0.978	0.740	0.077	0.089	0.084	0.082
71				30600106	B201B 4 mmBtu/h f.g. steam superheater	0.058	0.978	0.702	0.189	0.089	0.084	0.082
72				10200701	B504 117 mmBtu/h f.g. boiler	0.970	0.514	5.640	5.386	1.469	1.469	1.469
73				10200701	B506 100 mmBtu/hr f.g. boiler	1.120	0.513	6.880	6.221	1.697	1.697	1.697
74				10200701	B505 127 mmBtu/hr f.g. generator	1.624	1.187	10.959	11.050	2.460	2.460	2.460
75				10200701	B507 99.9 mBtu/hr	1.455	0.642	7.365	8.079	2.204	2.204	2.204
76				30601402	Coke Drum Venting and Cutting	1.110	0.000	0.000	0.000	0.000	0.000	0.000
77				40200110	miscellaneous organic solvent use	0.446	0.000	0.000	0.000	0.000	0.000	0.000
78				30609904	B602A 1 mmBtu/h sulfur plant incinerator	0.020	0.917	1.101	73.040	0.083	0.083	0.083
79				30609904	B602B 1 mmBtu/h sulfur plant incinerator	0.020	0.917	1.101	59.560	0.083	0.083	0.083
80				30609904	B702 5 mmBtu/h tail gas combustor	0.042	1.957	2.348	3.457	0.177	0.177	0.177
81				30600903	C-451 flare stack	0.146	0.807	0.148	0.109	0.000	0.000	0.000
82				30600505	oily water treatment system	4.665	0.000	0.000	0.000	0.000	0.000	0.000
83				30600701	cooling towers	2.821	0.000	0.000	0.000	0.000	0.000	0.000
84				39999996	sulfur pit vents	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85				30600811	pipeline valves, gas stream	0.138	0.000	0.000	0.000	0.000	0.000	0.000
86				30600819	compressor seals, gas stream	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87				30600822	pressure relief valves, gas	0.007	0.000	0.000	0.000	0.000	0.000	0.000
88				30600801	fittings, gas	0.000	0.000	0.000	0.000	0.000	0.000	0.000
89				30600816	flanges, gas/light liquid	0.065	0.000	0.000	0.000	0.000	0.000	0.000
90				30600801	other, gas/light liquid	0.370	0.000	0.000	0.000	0.000	0.000	0.000
91				30600801	connectors, gas/light liquid, light liquid	0.271	0.000	0.000	0.000	0.000	0.000	0.000
92				30600822	pressure relief valves, light liquid	0.002	0.000	0.000	0.000	0.000	0.000	0.000
93				30600801	valves, heavy liquid	0.000	0.000	0.000	0.000	0.000	0.000	0.000
94				30600812	pipeline valves, light oil	0.175	0.000	0.000	0.000	0.000	0.000	0.000
95				30600817	pump seals, light liquid	0.042	0.000	0.000	0.000	0.000	0.000	0.000
96				30601402	coke cooling water tnks, 405/406	8.671	0.000	0.000	0.000	0.000	0.000	0.000
97				40301021	fixed roof, tank 1, diesel oil	0.000	0.000	0.000	0.000	0.000	0.000	0.000
98				40301012	fixed roof, tank 100, recov. oil	0.000	0.000	0.000	0.000	0.000	0.000	0.000
99				40301012	fixed roof, tank 101, recov. oil	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100				40301099	fixed roof, tank 115, gland oil	0.001	0.000	0.000	0.000	0.000	0.000	0.000
101				40301015	fixed roof, tank 550, naphtha	0.405	0.000	0.000	0.000	0.000	0.000	0.000
102				40301015	fixed roof, tank 551, naphtha	1.318	0.000	0.000	0.000	0.000	0.000	0.000
103				40301197	floating roof, 800, gas oil	1.028	0.000	0.000	0.000	0.000	0.000	0.000
104				40301197	floating roof, 801, gas oil	1.028	0.000	0.000	0.000	0.000	0.000	0.000
105				40301117	floating roof, 900, crude oil	2.997	0.000	0.000	0.000	0.000	0.000	0.000
106				40301117	floating roof, 901, crude oil	2.997	0.000	0.000	0.000	0.000	0.000	0.000
107				40301117	floating roof, 903, crude oil	1.525	0.000	0.000	0.000	0.000	0.000	0.000
108				40301117	BUGs	0.004	0.017	0.081	0.005	0.006	0.006	0.006
109		**Carbon Plant - Phillips 66 - Santa M**	2999	30600106	13 mmBtu/hr rotary kiln, combined fuel gas	n/a	n/a	n/a	n/a	n/a	n/a	n/a
110				30601401	cold stack with baghouse (kiln)	n/a	n/a	n/a	n/a	n/a	n/a	n/a
111				20200102	rental water pump, 225 hp	n/a	n/a	n/a	n/a	n/a	n/a	n/a
112				30510404	cooler stack to wet scrubber	n/a	n/a	n/a	n/a	n/a	n/a	n/a
113				30510304	green coke storage	0.000	0.000	0.000	0.000	0.054	0.027	0.008
114				30510104	rail car loading, baghouse	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115				30510104	handling and conveying	0.000	0.000	0.000	0.000	0.253	0.126	0.037
116		**facility total:**				41.882	35.599	72.976	180.148	16.555	16.002	15.734