

ATTACHMENT A
(Kinder Morgan Port Manatee Terminal, LLC for Emission Unit No. 0810004)

MATERIAL	PARTICLE SIZE MULTIPLIER	MEAN WIND SPEED (mph)	DIRECTION	CONTROLLER EFFICIENCY (%)	CONTROL EFFICIENCY (%)	ANNUAL LOADING (TPH)	CRANE UNLOADING RATE (TPH)	CRANE UNLOADING RATE (lbs/hr)	CRANE HOURLY EMISSION RATE	HOPPER LOADING RATE (TPH)	HOPPER HOURLY EMISSION RATE (lbs/hr)	HOPPER ANNUAL EMISSION	TRUCK LOADING RATE (TPH)	TRUCK HOURLY EMISSION RATE (lbs/hr)	TRUCK ANNUAL EMISSION	TOTAL HOURLY EMISSION RATE	TOTAL ANNUAL EMISSION (TPH)
SCRAP IRON	0.33	6	6	1	0.00375	0	0	100000	200	0.75	0.75	0.01720	NA	NA	NA	0.75	0.75
STONE/ROCK	0.33	6	6	5	0.00037	0	0	100000	750	0.02	0.02	0.01720	125	0.01720	0.01720	0.28	0.04
SAND	0.33	6	6	5	0.00037	0	0	100000	400	0.07	0.07	0.01720	125	0.01720	0.01720	0.28	0.04
SALT	0.33	6	6	2	0.00147	0	0	100000	300	0.45	0.45	0.01720	125	0.01720	0.01720	0.74	0.21
UREA	0.33	6	6	1	0.00375	0	0	30000	300	1.12	1.12	0.01720	125	0.01720	0.01720	2.04	0.17
SLAB	0.33	6	6	1	0.00375	0	0	10000	250	0.33	0.33	0.01720	NA	NA	NA	0.33	0.00
PHOSPHATE PRODUCTS	0.33	6	6	1.5	0.00212	75	0.00157	400000	600	0.32	0.32	0.01720	NA	NA	NA	0.32	0.02
ALUMINA HYDRATE	0.33	6	6	1	0.00138	0	0	30000	150	0.12	0.12	0.01720	NA	NA	NA	0.12	0.02
BAUXITE	0.33	6	6	1	0.00138	0	0	33000	150	0.18	0.18	0.01720	100	0.01720	0.01720	0.41	0.04
CEMENT CLINKER	0.33	6	6	1	0.00138	0	0	25000	150	0.05	0.05	0.01720	125	0.01720	0.01720	0.12	0.01
COAL	0.33	6	6	4.5	0.00416	0	0	130000	150	0.18	0.18	0.01720	125	0.01720	0.01720	0.47	0.04
POLYMER	0.33	6	6	0.7	0.00117	0	0	100000	150	0.33	0.33	0.01720	125	0.01720	0.01720	0.18	0.10
FERTILIZER	0.33	6	6	2	0.00142	0	0	430000	150	0.21	0.21	0.01720	125	0.01720	0.01720	0.37	0.33
CLASH	0.33	6	6	1	0.00375	0	0	25000	150	0.54	0.54	0.01720	125	0.01720	0.01720	0.57	0.14
GRAVEL	0.33	6	6	5	0.00037	0	0	50000	125	0.05	0.05	0.01720	125	0.01720	0.01720	0.13	0.03
GYP-SUM.	0.33	6	6	5	0.00037	0	0	25000	150	0.06	0.06	0.01720	125	0.01720	0.01720	0.16	0.01
LINE ROCK	0.33	6	6	0.7	0.00117	0	0	25000	150	0.35	0.35	0.01720	125	0.01720	0.01720	0.47	0.23
POT ASH	0.33	6	6	1	0.00118	0	0	50000	150	0.18	0.18	0.01720	125	0.01720	0.01720	0.47	0.04
PURICE	0.33	6	6	5	0.00037	0	0	50000	150	0.04	0.04	0.01720	125	0.01720	0.01720	0.16	0.03
SHALT	0.33	6	6	1	0.00375	0	0	25000	150	0.34	0.34	0.01720	125	0.01720	0.01720	1.50	0.14
IRON ORE	0.33	6	6	1	0.00375	0	0	25000	125	0.47	0.47	0.01720	100	0.01720	0.01720	1.22	0.14

TOTAL 4.47