THE PORT OF LONG BEACH

MEMORANDUM

LONG BEACH CALIFORNIA

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DATE September 9, 2004

TO Larry Herrera, City Clerk

FROM Robert Kanter, Director of Planning

SUBJECT Information Posting

On September 9, 2004, a packet of information pertaining to the appeal of the certification of the Pier J South Terminal Development Project EIS/EIR was submitted for City Council consideration on September 14, 2004. The enclosed "Attachment A" was deemed to large to be included in the Council packets but needs to be part of the official record. Accordingly, insert the attachment directly behind the copy of the letter to the Natural Resources Defense Counsel (NRDC)/ Coalition for Clean Air.

Thank you,

Robert Kanter

Robert Kanter

SEC:s

Attachment

Attachment A

Air Quality Analysis and Health Risk Assessment Update Data 2004

Pier J South Marine Terminal Redevelopment - Operational Emission Calculations (Revision 2004)

Table A.2-1 Source Data for Exhaust Emissions - On-Site Operational Equipment (115-Acre Landfill Alternative)

Equipment Type (a)	Number Active(a)	Rated HP (b)	Load Factor (b)	Work Hrs Per Day (a)	Work Days Per Year (a)	Emission Factors (g/hr) or (lb/hp-hr) (c) CO	TOC	NOx	SOx	PM	PM10 (d)	Source Category
Cranes (electric)	-	-	-	-	360	-	-	-	-	-	-	-
Top Handlers	1	330	0.510	6	360	228.95	57.53	654.81	0.002	29.63	28.92	Large CI engine
RTG	0	250	0.510	7	360	139.94	35.29	425.09	0.002	18.32	17.88	Large CI engine
Side Handler	5	225	0.510	6	360	139.94	35.29	425.09	0.002	18.32	17.88	Large CI engine
Yard Hostlers	11	175	0.510	4	360	285.86	31.11	317.57	0.002	21.54	21.02	Large CI engine

Notes: (a) Source of Data: POLB 2002. All equipment is diesel-fueled, unless otherwise indicated.
(b) Equipment horse power ratings and operating hours were provided by the POLB (2000). The load factor for other general industrial equipment listed in the CARB emission inventory report (2000) is used for SOx emission calculations.
(c) The emission factors (2015) for CO, TOC, NOx and PM in g/hr provided by the CARB (2002) are used. The emission factor for SOx in lb/hp-hr is from the SCAQMD CEQA Handbook (SCAQMD 1999).
(d) The PM10 weight fraction of PM is 0.976 (CARB 2000).

Table A.2-2 Source Data for Exhaust Emissions - On-Site Operational Vehicles (115-Acre Landfill Alternative)

Vehicle Type (a)	Number Per Day(a)	VMT Per Hour (b)	Work Hours Per Day (hr/day) (a,	Work Days Per Year (a)	Emission Factors (g/mile) (c) CO	ROC	NOx	SOx	PM10	Source Category
Trucks	2	10	3	360	1.49	0.30	6.04	0.02	0.17	HHDT (Diesel)
Vans	3	25	6	360	2.36	0.25	0.21	0.004	0.03	LDA (Gasoline)

Notes: (a) Source of Data: POLB 2002.
(b) The VMT per hour for a vehicle was assumed to equal to vehicle hourly travel speeds, which were provided by the POLB (2002).
(c) Source of Data: EMFAC2002. The higher emission factors predicted for summer and winter in 2015 are used.

Table A.2-3 Source Data for Exhaust Emissions - Off-Site Transportation Trucks (115-Acre Landfill Alternative)

Vehicle Type (a)	Number Trips Per Day(a)	Trip Distance Mile Per Trip (b)	Work Days Per Year	Emission Factors (g/mile) (c) CO	ROC	NOx	SOx	PM10	Source Category
Trucks	1243	15	360	1.49	0.30	6.04	0.02	0.17	HHDT (Diesel)

Notes: (a) Source of Data: MMA 2002 (incremental project trips).
(b) Source of Data: MMA 2002.
(c) Source of Data: EMFAC2002. The higher emission factors predicted for summer and winter in 2015 are used.

Table A.2-4 Source Data for Fugitive Dust Emissions - On-site Operational Vehicles on Paved Roads (115-Acre Landfill Alternative)

Vehicle Type (a)	Number Per Day(a)	VMT Per Hour (b)	Work Hours Per Day (hr/day) (a)	Work Days Per Year (a)	Emission Factors (lb/mile) (c) CO	ROC	NOx	SOx	PM10	Source Category
Trucks	2	10	3	360					0.0078	Trucks
Vans	3	25	6	360					0.0005	LDA

Notes: (a) Source of Data: POLB 2002.
(b) The VMT per hour for a vehicle was assumed to equal to vehicle hourly travel speeds, which were provided by the POLB (2002).
(c) Source of Data: EPA AP-42 (Section 13.2-1 - vehicles on freeway).

Table A.2-5 Source Data for Fugitive Dust Emissions - Off-Site Transportation Trucks on Paved Roads (115-Acre Landfill Alternative)

Vehicle Type (a)	Number Trips Per Day(a)	Trip Distance Mile Per Trip (b)	Work Days Per Year	Emission Factor (lb/mile) (c) CO	ROC	NOx	SOx	PM10	Source Category
Trucks	1243	15	360					0.0078	Trucks

Notes: (a) Source of Data: MMA 2002 (incremental project trips).
(b) Source of Data: MMA 2002.
(c) Source of Data: EPA AP-42 (Section 13.2-1 - vehicles on freeway).

Table A.2-6 Source Data for Exhaust Emissions - Trains (115-Acre Landfill Alternative)

Trains	No. of Train Trips Per Day(a)	Miles Per Train Trip (b)	Engine Fuel Usage (gal/train-mile) (c)	No. of Train Trips Per Year	Emission Factor (g/gal) (d) CO	TOC	NOx	SOx	PM	PM10 (e)	Source Category
Line Haul	2	26	2.69	720	27.40	8.50	151.00		5.30	5.173	Line Haul

Notes: (a) Source of Data: POLB 2002 (incremental train trips).
(b) Source of Data: POLB 2002 (distance to E. LA rail yard).
(c) Source of Data: EPA 2001.
(d) Source of Data: EPA 1997 (Emission factors for 2015).
(e) The PM10 weight fraction of PM is 0.976 (CARB 2000).

Table A.2-7 Source Data for Exhaust Emissions - Marine Vessels (115-Acre Landfill Alternative)

Source Type	Ships DWT (a)	Design Categories (a)	Percentage of Ships (%) (b)	Ship Calls Per Day (c)	Energy Used (kWh/call) (a)	Visit Time Per Call (hour) (a)	Ship Calls Per Year (c)	Emission Factors (g/kWh) (a) CO	ROC	NOx	SOx	PM	PM10	Source Category
Container-Cruising (d) (e)	<10,300	600-800	3.70%	0.013	3518		4.630	1.60E+00	5.00E-01	2.08E+01	1.18E+01	1.37E+00	1.32E+00	Container - Cruising
Container-Cruising (d)	10,300-15,800	600-800	0.53%	0.002	3518		0.661	1.60E+00	5.00E-01	2.08E+01	1.18E+01	1.37E+00	1.32E+00	Container - Cruising
Container-Cruising (d)	15,800-22,100	800-1000	0.00%	0.000	3471		0.000	1.60E+00	5.00E-01	2.38E+01	1.18E+01	1.37E+00	1.32E+00	Container - Cruising
Container-Cruising (d)	22,100-29,100	1000-1200	5.82%	0.020	3044		7.275	1.60E+00	5.00E-01	2.38E+01	1.18E+01	1.37E+00	1.32E+00	Container - Cruising
Container-Cruising (d)	29,100-36,700	1200-1400	0.53%	0.002	3243		0.661	1.60E+00	5.00E-01	2.38E+01	1.18E+01	1.37E+00	1.32E+00	Container - Cruising
Container-Cruising (d)	36,700-44,800	1400-1600	6.35%	0.022	3536		7.937	1.60E+00	5.00E-01	2.87E+01	1.18E+01	1.37E+00	1.32E+00	Container - Cruising
Container-Cruising (d)	44,800-53,500	1600-1800	16.93%	0.059	3557		21.164	1.60E+00	5.00E-01	2.87E+01	1.18E+01	1.37E+00	1.32E+00	Container - Cruising
Container-Cruising (d)	53,500-62,700	1800-2000	49.21%	0.171	4083		61.508	1.60E+00	5.00E-01	2.87E+01	1.18E+01	1.37E+00	1.32E+00	Container - Cruising
Container-Cruising (d)	72,300-82,400	2200-2400	0.00%	0.000	5027		0.000	1.60E+00	5.00E-01	2.87E+01	1.18E+01	1.37E+00	1.32E+00	Container - Cruising
Container-Cruising (d)	82,400-93,000	2400-2600	6.88%	0.024	4970		8.598	1.60E+00	5.00E-01	2.87E+01	1.18E+01	1.37E+00	1.32E+00	Container - Cruising
Container-Cruising (d)	93,000-103,900	2600-2800	0.00%	0.000	4197		0.000	1.60E+00	5.00E-01	2.87E+01	1.18E+01	1.37E+00	1.32E+00	Container - Cruising
Container-Cruising (d)	103,900-115,200	2800-3000	10.05%	0.035	4781		12.566	1.60E+00	5.00E-01	2.87E+01	1.18E+01	1.37E+00	1.32E+00	Container - Cruising
Subtotal			100.00%	0.347			125							
Daily Emissions (f)				1.000	4781			1.60E+00	5.00E-01	2.87E+01	1.18E+01	1.37E+00	1.32E+00	Container - Cruising
Container-Maneuvering (g) (e)	<10,300	600-800	3.70%	0.013	2963		4.630	1.66E+00	5.20E-01	2.79E+01	1.18E+01	1.37E+00	1.32E+00	Container - Maneuvering
Container-Maneuvering (g)	10,300-15,800	600-800	0.53%	0.002	2963		0.661	1.66E+00	5.20E-01	2.79E+01	1.18E+01	1.37E+00	1.32E+00	Container - Maneuvering
Container-Maneuvering (g)	15,800-22,100	800-1000	0.00%	0.000	3929		0.000	1.66E+00	5.20E-01	2.79E+01	1.18E+01	1.37E+00	1.32E+00	Container - Maneuvering
Container-Maneuvering (g)	22,100-29,100	1000-1200	5.82%	0.020	4024		7.275	1.66E+00	5.20E-01	2.79E+01	1.18E+01	1.37E+00	1.32E+00	Container - Maneuvering
Container-Maneuvering (g)	29,100-36,700	1200-1400	0.53%	0.002	4640		0.661	1.66E+00	5.20E-01	2.79E+01	1.18E+01	1.37E+00	1.32E+00	Container - Maneuvering
Container-Maneuvering (g)	36,700-44,800	1400-1600	6.35%	0.022	5968		7.937	1.66E+00	5.20E-01	2.79E+01	1.18E+01	1.37E+00	1.32E+00	Container - Maneuvering
Container-Maneuvering (g)	44,800-53,500	1600-1800	16.93%	0.059	6553		21.164	1.66E+00	5.20E-01	2.79E+01	1.18E+01	1.37E+00	1.32E+00	Container - Maneuvering
Container-Maneuvering (g)	53,500-62,700	1800-2000	49.21%	0.171	7341		61.508	1.66E+00	5.20E-01	2.79E+01	1.18E+01	1.37E+00	1.32E+00	Container - Maneuvering
Container-Maneuvering (g)	72,300-82,400	2200-2400	0.00%	0.000	10335		0.000	1.66E+00	5.20E-01	2.79E+01	1.18E+01	1.37E+00	1.32E+00	Container - Maneuvering
Container-Maneuvering (g)	82,400-93,000	2400-2600	6.88%	0.024	10584		8.598	1.66E+00	5.20E-01	2.79E+01	1.18E+01	1.37E+00	1.32E+00	Container - Maneuvering
Container-Maneuvering (g)	93,000-103,900	2600-2800	0.00%	0.000	9735		0.000	1.66E+00	5.20E-01	2.79E+01	1.18E+01	1.37E+00	1.32E+00	Container - Maneuvering
Container-Maneuvering (g)	103,900-115,200	2800-3000	10.05%	0.035	11284		12.566	1.66E+00	5.20E-01	2.79E+01	1.18E+01	1.37E+00	1.32E+00	Container - Maneuvering
Subtotal			100.00%	0.347			125							
Daily Emissions (f)				1.000	11284			1.66E+00	5.20E-01	2.79E+01	1.18E+01	1.37E+00	1.32E+00	Container - Maneuvering
Container-Hotelling (h) (e)	<10,300	600-800	3.70%	0.013		51.08	4.630	2.67E+00	2.86E+00	1.74E+01	1.49E+01	8.60E-01	8.26E-01	Auxiliary Power (lb/hour)
Container-Hotelling (h)	10,300-15,800	600-800	0.53%	0.002		51.08	0.661	2.67E+00	2.86E+00	1.74E+01	1.49E+01	8.60E-01	8.26E-01	Auxiliary Power (lb/hour)
Container-Hotelling (h)	15,800-22,100	800-1000	0.00%	0.000		51.08	0.000	2.67E+00	2.86E+00	1.74E+01	1.49E+01	8.60E-01	8.26E-01	Auxiliary Power (lb/hour)
Container-Hotelling (h)	22,100-29,100	1000-1200	5.82%	0.020		51.08	7.275	2.67E+00	2.86E+00	1.74E+01	1.49E+01	8.60E-01	8.26E-01	Auxiliary Power (lb/hour)
Container-Hotelling (h)	29,100-36,700	1200-1400	0.53%	0.002		51.08	0.661	2.67E+00	2.86E+00	1.74E+01	1.49E+01	8.60E-01	8.26E-01	Auxiliary Power (lb/hour)
Container-Hotelling (h)	36,700-44,800	1400-1600	6.35%	0.022		51.08	7.937	2.67E+00	2.86E+00	1.74E+01	1.49E+01	8.60E-01	8.26E-01	Auxiliary Power (lb/hour)
Container-Hotelling (h)	44,800-53,500	1600-1800	16.93%	0.059		51.08	21.164	2.67E+00	2.86E+00	1.74E+01	1.49E+01	8.60E-01	8.26E-01	Auxiliary Power (lb/hour)
Container-Hotelling (h)	53,500-62,700	1800-2000	49.21%	0.171		51.08	61.508	2.67E+00	2.86E+00	1.74E+01	1.49E+01	8.60E-01	8.26E-01	Auxiliary Power (lb/hour)
Container-Hotelling (h)	72,300-82,400	2200-2400	0.00%	0.000		51.08	0.000	2.67E+00	2.86E+00	1.74E+01	1.49E+01	8.60E-01	8.26E-01	Auxiliary Power (lb/hour)
Container-Hotelling (h)	82,400-93,000	2400-2600	6.88%	0.024		51.08	8.598	2.67E+00	2.86E+00	1.74E+01	1.49E+01	8.60E-01	8.26E-01	Auxiliary Power (lb/hour)
Container-Hotelling (h)	93,000-103,900	2600-2800	0.00%	0.000		51.08	0.000	2.67E+00	2.86E+00	1.74E+01	1.49E+01	8.60E-01	8.26E-01	Auxiliary Power (lb/hour)
Container-Hotelling (h)	103,900-115,200	2800-3000	10.05%	0.035		51.08	12.566	2.67E+00	2.86E+00	1.74E+01	1.49E+01	8.60E-01	8.26E-01	Auxiliary Power (lb/hour)
Subtotal			100.00%	0.347			125							
Daily Emissions (f)				1.000		21.0		2.67E+00	2.86E+00	1.74E+01	1.49E+01	8.60E-01	8.26E-01	Auxiliary Power (lb/hour)

	Ship Calls Per Day (f)	Fuel Usage (gal/hr) (i)	Visit Time Per Call (hour) (j)	Ship Calls Per Year (c)	Emission Factors (lb/1000gal) (j) CO	ROC	NOx	SOx	PM	PM10	Source Category
Tug Boat	1.000	87.5	1.0	125	1.90E+01	5.70E+01	4.19E+02	7.50E+01	9.00E+00	8.64E+00	Tugboat

Notes: (a) Source of Data: ARCADIS 1999. Emission factors for 2010 are used. Unit of emission factors for container hotelling is lb/hour.
(b) Percentages of ships in each of the design categories are derived based on the 1999 shipping data provided by the Port of Long Beach (POLB 2001).
(c) Daily and annual ship calls for each of the design categories are derived based on the percentages of ships in each of categories and the total annual incremental container calls.
(d) The speed for a container during cruising inside the precautionary zone is 12 knots.
(e) The data for a container within 10,300-15,800 DWT listed in the ARCADIS report are used for a container less than 10,300 DWT.
(f) Daily emissions were conservatively estimated assuming that one largest container ship (103,900-115,200 DWT) is cruising (1 hour), maneuvering (2 hours) and hotelling (21 hours) at the same day.
(g) The speed for a container during maneuvering is 5 knots.
(h) Combined emission factors for auxiliary power engines and boilers are used in the calculations.
(i) Source of Data: 1995 Lloyd's shipping report.
(j) Source of Data: Acurex 1996. Unit of emission factors for tug boats is lb/1000gal.

Table A.2-8 Source Data for Exhaust Emissions - Autos (115-Acre Landfill Alternative)

Vehicle Type	Number Trips Per Day(a)	Trip Distance Miles per Vehicle (b)	Work Days Per Year (a)	Emission Factors (g/mile) (c) CO	ROC	NOx	SOx	PM10	Source Category
Autos	505	11	360	2.36	0.25	0.21	0.004	0.03	Light Duty Autos (Gasoline)

Notes: (a) Source of Data: POLB 2002 (incremental auto trips). The fleet mix was assumed to be 100% of cars.
(b) Source of Data: SCAQMD 1999.
(c) Source of Data: EMFAC2002. The higher emission factors predicted for summer and winter in 2015 are used.

Table A.2-9 Source Data for Fugitive Dust Emissions - Autos on Paved Roads (115-Acre Landfill Alternative)

Vehicle Type	Number Trips Per Day(a)	Trip Distance Miles per Vehicle (b)	Work Days Per Year (a)	Emission Factor (lb/mile) (c) CO	ROC	NOx	SOx	PM10	Source Category
Autos on Paved Road	505	11	360					0.0005	Paved Road

Notes: (a) Source of Data: POLB 2002 (incremental auto trips).
(b) Source of Data: SCAQMD 1999.
(c) Source of Data: EPA AP-42 (Section 13.2-1 - vehicles on freeway)

Table A.2-10 Estimated Exhaust Emissions - On-Site Operational Equipment (115-Acre Landfill Alternative)

Equipment Type	Daily Emissions (lbs/day)					Annual Emissions (tons/year)				
	CO	TOC	NOx	SOx	PM10	CO	ROC	NOx	SOx	PM10
Cranes (electric)	-	-	-	-	-	-	-	-	-	-
Top Handlers	3.03	0.76	8.66	2.02	0.39	0.55	0.14	1.56	0.36	0.07
RTG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Side Handler	9.26	2.33	28.11	6.89	1.21	1.67	0.42	5.06	1.24	0.22
Yard Hostlers	27.73	3.02	30.80	7.85	2.09	4.99	0.54	5.54	1.41	0.38
Total Emissions	40.01	6.11	67.58	16.76	3.69	7.20	1.10	12.16	3.02	0.66

Table A.2-11 Estimated Exhaust Emissions - On-Site Operational Vehicles (115-Acre Landfill Alternative)

Vehicle Type	Daily Emissions (lbs/day)					Annual Emissions (tons/year)				
	CO	ROC	NOx	SOx	PM10	CO	ROC	NOx	SOx	PM10
Trucks	0.20	0.04	0.80	0.00	0.02	0.04	0.01	0.14	0.00	0.00
Vans	2.34	0.25	0.21	0.00	0.03	0.42	0.04	0.04	0.00	0.01
Total Emissions	2.54	0.29	1.01	0.01	0.05	0.46	0.05	0.18	0.00	0.01

Table A.2-12 Estimated Exhaust Emissions - Off-Site Transportation Trucks (115-Acre Landfill Alternative)

Vehicle Type	Daily Emissions (lbs/day)					Annual Emissions (tons/year)				
	CO	ROC	NOx	SOx	PM10	CO	ROC	NOx	SOx	PM10
Trucks	61.25	12.33	248.27	0.00	6.99	11.02	2.22	44.69	0.00	1.26
Total Emissions	61.25	12.33	248.27	0.00	6.99	11.02	2.22	44.69	0.00	1.26

Table A.2-13 Estimated Fugitive Dust Emissions - On-Site Operational Vehicles on Paved Roads (115-Acre Landfill Alternative)

	Daily Emissions (lbs/day)					Annual Emissions (tons/year)				
Vehicle Type	*CO*	*ROC*	*NOx*	*SOx*	*PM10*	*CO*	*ROC*	*NOx*	*SOx*	*PM10*
Trucks	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.00	0.00	0.08
Vans	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.04
Total Emissions	**0.00**	**0.00**	**0.00**	**0.00**	**0.69**	**0.00**	**0.00**	**0.00**	**0.00**	**0.12**

A.2-14 Estimated Fugitive Dust Emissions - Off-Site Transportation Trucks on Paved Roads (115-Acre Landfill Alternative)

	Daily Emissions (lbs/day)					Annual Emissions (tons/year)				
Vehicle Type	*CO*	*ROC*	*NOx*	*SOx*	*PM10*	*CO*	*ROC*	*NOx*	*SOx*	*PM10*
Trucks					145.43					26.18
Total Emissions	**0.00**	**0.00**	**0.00**	**0.00**	**145.43**	**0.00**	**0.00**	**0.00**	**0.00**	**26.18**

Table A.2-15 Estimated Exhaust Emissions - Trains (115-Acre Landfill Alternative)

	Daily Emissions (lbs/day)					Annual Emissions (tons/year)				
Trains	*CO*	*ROC*	*NOx*	*SOx*	*PM10*	*CO*	*ROC*	*NOx*	*SOx*	*PM10*
Line Haul	8.45	2.62	46.56	0.00	1.60	1.52	0.47	8.38	0.00	0.29
Total Emissions	**8.45**	**2.62**	**46.56**	**0.00**	**1.60**	**1.52**	**0.47**	**8.38**	**0.00**	**0.29**

Table A.2-16 Estimated Exhaust Emissions - Marine Vessels (115-Acre Landfill Alternative)

Source Type	Daily Emissions (lbs/day)					Annual Emissions (tons/year)				
	CO	ROC	NOx	SOx	PM10	CO	ROC	NOx	SOx	PM10
Container-Cruising (d) (e)										
Container-Cruising (d)						0.029	0.009	0.373	0.211	0.024
Container-Cruising (d)						0.004	0.001	0.053	0.030	0.003
Container-Cruising (d)						0.000	0.000	0.000	0.000	0.000
Container-Cruising (d)						0.039	0.012	0.581	0.287	0.032
Container-Cruising (d)						0.004	0.001	0.056	0.028	0.003
Container-Cruising (d)						0.049	0.015	0.889	0.364	0.041
Container-Cruising (d)						0.133	0.041	2.385	0.976	0.109
Container-Cruising (d)						0.443	0.138	7.956	3.255	0.364
Container-Cruising (d)						0.000	0.000	0.000	0.000	0.000
Container-Cruising (d)						0.075	0.024	1.354	0.554	0.062
Container-Cruising (d)						0.000	0.000	0.000	0.000	0.000
						0.106	0.033	1.903	0.779	0.087
Daily Emissions (f)	16.86	5.27	302.92	123.95	13.86					
Container-Maneuvering (g) (e)										
Container-Maneuvering (g)						0.025	0.008	0.422	0.178	0.020
Container-Maneuvering (g)						0.004	0.001	0.060	0.025	0.003
Container-Maneuvering (g)						0.000	0.000	0.000	0.000	0.000
Container-Maneuvering (g)						0.054	0.017	0.901	0.379	0.042
Container-Maneuvering (g)						0.006	0.002	0.094	0.040	0.004
Container-Maneuvering (g)						0.087	0.027	1.458	0.614	0.069
Container-Maneuvering (g)						0.254	0.079	4.270	1.798	0.201
Container-Maneuvering (g)						0.828	0.259	13.901	5.853	0.655
Container-Maneuvering (g)						0.000	0.000	0.000	0.000	0.000
Container-Maneuvering (g)						0.167	0.052	2.802	1.180	0.132
Container-Maneuvering (g)						0.000	0.000	0.000	0.000	0.000
						0.260	0.081	4.365	1.838	0.206
Daily Emissions (f)	41.39	12.94	694.80	292.55	32.72					
Container-Hoteling (h) (e)										
Container-Hoteling (h)						0.316	0.338	2.055	1.756	0.098
Container-Hoteling (h)						0.045	0.048	0.294	0.251	0.014
Container-Hoteling (h)						0.000	0.000	0.000	0.000	0.000
Container-Hoteling (h)						0.496	0.531	3.229	2.759	0.153
Container-Hoteling (h)						0.045	0.048	0.294	0.251	0.014
Container-Hoteling (h)						0.541	0.580	3.523	3.010	0.167
Container-Hoteling (h)						1.443	1.546	9.394	8.027	0.446
Container-Hoteling (h)						4.194	4.493	27.302	23.328	1.297
Container-Hoteling (h)						0.000	0.000	0.000	0.000	0.000
Container-Hoteling (h)						0.586	0.628	3.816	3.261	0.181
Container-Hoteling (h)						0.000	0.000	0.000	0.000	0.000
						0.857	0.918	5.578	4.766	0.265
Daily Emissions (f)	56.07	60.06	364.98	311.85	17.34					
Tug Boat	1.66	4.99	36.66	6.56	0.76	0.104	0.312	2.291	0.410	0.047
Total Emissions	115.99	83.25	1399.37	734.91	64.67	11.19	10.24	101.60	66.21	4.74

A.2-17 Estimated Exhaust Emissions - Autos (115-Acre Landfill Alternative)

Vehicles	Daily Emissions (lbs/day)					Annual Emissions (tons/year)				
	CO	ROC	NOx	SOx	PM10	CO	ROC	NOx	SOx	PM10
Autos	28.90	3.06	2.57	0.00	0.37	5.20	0.55	0.46	0.00	0.07
Total Emissions	**28.90**	**3.06**	**2.57**	**0.00**	**0.37**	**5.20**	**0.55**	**0.46**	**0.00**	**0.07**

A.2-18 Estimated Fugitive Dust Emissions - Autos on Paved Roads (115-Acre Landfill Alternative)

Vehicles	Daily Emissions (lbs/day)					Annual Emissions (tons/year)				
	CO	ROC	NOx	SOx	PM10	CO	ROC	NOx	SOx	PM10
Autos on Paved Road					2.78					0.50
Total Emissions	**0.00**	**0.00**	**0.00**	**0.00**	**2.78**	**0.00**	**0.00**	**0.00**	**0.00**	**0.50**

A.2-19 Summary of Estimated Operational Emissions (115-Acre Landfill Alternative)

Emissions	Daily Emissions (lbs/day)					Annual Emissions (tons/year)				
	CO	ROC	NOx	SOx	PM10	CO	ROC	NOx	SOx	PM10
Exhaust Emissions - On-Site Operational Equipment	40.01	6.11	67.58	16.76	3.69	7.20	1.10	12.16	3.02	0.66
Exhaust Emissions - On-Site Operational Vehicles	2.54	0.29	1.01	0.01	0.05	0.46	0.05	0.18	0.00	0.01
Exhaust Emissions - Off-Site Transportation Trucks	61.25	12.33	248.27	0.00	6.99	11.02	2.22	44.69	0.00	1.26
Fugitive Dust Emissions - On-Site Vehicles on Paved Roads	0.00	0.00	0.00	0.00	0.69	0.00	0.00	0.00	0.00	0.12
Fugitive Dust Emissions - Off-Site Trucks on Paved Roads	0.00	0.00	0.00	0.00	145.43	0.00	0.00	0.00	0.00	26.18
Exhaust Emissions - Trains	8.45	2.62	46.56	0.00	1.60	1.52	0.47	8.38	0.00	0.29
Exhaust Emissions - Marine Vessels	115.99	83.25	1399.37	734.91	64.67	11.19	10.24	101.60	66.21	4.74
Exhaust Emissions - Automobiles	28.90	3.06	2.57	0.00	0.37	5.20	0.55	0.46	0.00	0.07
Fugitive Dust Emissions - Autos on Paved Roads	0.00	0.00	0.00	0.00	2.78	0.00	0.00	0.00	0.00	0.50
Total Emissions	**257.14**	**107.67**	**1765.36**	**751.68**	**226.27**	**36.60**	**14.64**	**167.48**	**69.23**	**33.83**

A.2-20 Estimated Exhaust Emissions - On-Site Operational Equipment after Mitigation (115-Acre Landfill Alternative)

Equipment Type	Daily Emissions (lbs/day)					Annual Emissions (tons/year)				
	CO	ROC	NOx	SOx	PM10	CO	ROC	NOx	SOx	PM10
Cranes (electric)	-	-	-	-	-	-	-	-	-	-
Top Handlers	3.03	0.76	8.66	2.02	0.39	0.55	0.14	1.56	0.36	0.07
RTG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Side Handler	9.26	2.33	28.11	6.89	1.21	1.67	0.42	5.06	1.24	0.22
Yard Hostlers	27.73	3.02	30.80	7.85	2.09	4.99	0.54	5.54	1.41	0.38
Total Emissions	**40.01**	**6.11**	**67.58**	**16.76**	**3.69**	**7.20**	**1.10**	**12.16**	**3.02**	**0.66**

A.2-21 Estimated Exhaust Emissions - On-Site Operational Vehicles after Mitigation (115-Acre Landfill Alternative)

Source Type	Daily Emissions (lbs/day)					Annual Emissions (tons/year)				
	CO	ROC	NOx	SOx	PM10	CO	ROC	NOx	SOx	PM10
Trucks	0.20	0.04	0.80	0.00	0.02	0.04	0.01	0.14	0.00	0.00
Vans	2.34	0.25	0.21	0.00	0.03	0.42	0.04	0.04	0.00	0.01
Total Emissions	**2.54**	**0.29**	**1.01**	**0.01**	**0.05**	**0.46**	**0.05**	**0.18**	**0.00**	**0.01**

A.2-22 Estimated Exhaust Emissions - Off-Site Transportation Vehicles after Mitigation (115-Acre Landfill Alternative)

Source Type	Daily Emissions (lbs/day)					Annual Emissions (tons/year)				
	CO	ROC	NOx	SOx	PM10	CO	ROC	NOx	SOx	PM10
Trucks	61.25	12.33	248.27	0.00	6.99	11.02	2.22	44.69	0.00	1.26
Total Emissions	**61.25**	**12.33**	**248.27**	**0.00**	**6.99**	**11.02**	**2.22**	**44.69**	**0.00**	**1.26**

A.2-23 Estimated Exhaust Emissions - Autos after Mitigation (115-Acre Landfill Alternative)

Equipment Type	Daily Emissions (lbs/day) (a)					Annual Emissions (tons/year)				
	CO	ROC	NOx	SOx	PM10	CO	ROC	NOx	SOx	PM10
Autos	28.32	3.00	2.52	0.00	0.36	5.10	0.54	0.45	0.00	0.06
Total Emissions	28.32	3.00	2.52	0.000	0.36	5.10	0.54	0.45	0.00	0.06

Notes: (a) ROC, NOx, CO, and PM10 emissions from the autos have been reduced by 2 percent due to the use of the ridesharing and mass transit program (SCAQMD 1999).

A.2-24 Estimated Fugitive Dust Emissions - Autos after Mitigation (115-Acre Landfill Alternative)

Construction Activity	Daily Emissions (lbs/day) (a)					Annual Emissions (tons/year)				
	CO	ROC	NOx	SOx	PM10	CO	ROC	NOx	SOx	PM10
Autos on Paved Road					2.72					0.49
Total Emissions	0.00	0.00	0.00	0.00	2.72	0.00	0.00	0.00	0.00	0.49

Notes: (a) PM10 emissions from the autos have been reduced by 2 percent due to the use of the ridesharing and mass transit program (SCAQMD 1999).

A.2-25 Summary of Estimated Operational Emissions after Mitigation (115-Acre Landfill Alternative)

Emissions	Daily Emissions (lbs/day)					Annual Emissions (tons/year)				
	CO	ROC	NOx	SOx	PM10	CO	ROC	NOx	SOx	PM10
Exhaust Emissions - On-Site Operational Equipment	40.01	6.11	67.58	16.76	3.69	7.20	1.10	12.16	3.02	0.66
Exhaust Emissions - On-Site Operational Vehicles	2.54	0.29	1.01	0.01	0.05	0.46	0.05	0.18	0.00	0.01
Exhaust Emissions - Off-Site Transportation Trucks	61.25	12.33	248.27	0.00	6.99	11.02	2.22	44.69	0.00	1.26
Fugitive Dust Emissions - On-Site Vehicles on Paved Roads	0.00	0.00	0.00	0.00	0.69	0.00	0.00	0.00	0.00	0.12
Fugitive Dust Emissions - Off-Site Trucks on Paved Roads	0.00	0.00	0.00	0.00	145.43	0.00	0.00	0.00	0.00	26.18
Exhaust Emissions - Trains	8.45	2.62	46.56	0.00	1.60	3.04	0.94	16.76	0.00	0.57
Exhaust Emissions - Marine Vessels	115.99	83.25	1399.37	734.91	64.67	11.19	10.24	101.60	66.21	4.74
Exhaust Emissions - Automobiles	28.32	3.00	2.52	0.00	0.36	5.10	0.54	0.45	0.00	0.06
Fugitive Dust Emissions - Autos on Paved Roads	0.00	0.00	0.00	0.00	2.72	0.00	0.00	0.00	0.00	0.49
Total Emissions	256.56	107.61	1765.31	751.68	226.21	38.02	15.10	175.85	69.23	34.10

Pier J South Marine Terminal Redevelopment - Operational Emission Calculations (Revision 2004)

Table A.4-1 Source Data for Exhaust Emissions - On-Site Operational Equipment (75-Acre Landfill Alternative)

Equipment Type (a)	Number Active(a)	Rated HP (b)	Load Factor (b)	Work Hrs Per Day (a)	Work Days Per Year (a)	Emission Factors (g/hr) or (lb/hp-hr) (c) CO	TOC	NOx	SOx	PM	PM10 (d)	Source Category
Cranes (electric)	-	-	-	-	360	-	-	-	-		-	-
Top Handlers	0	330	0.510	6	360	-	-	-	-	-	-	Large CI engine
RTG	0	250	0.510	7	360	-	-	-	-	-	-	Large CI engine
Side Handler	4	225	0.510	6	360	153.64	42.25	611.75	0.002	21.98	21.45	Large CI engine
Yard Hostlers	0	175	0.510	4	360	-	-	-	-	-	-	Large CI engine

Notes: (a) Source of Data: POLB 2002. All equipment is diesel-fueled, unless otherwise indicated.
(b) Equipment horse power ratings and operating hours were provided by the POLB (2000). The load factor for other general industrial equipment listed in the CARB emission inventory report (2000) is used.
(c) The emission factors (2010) for CO, TOC, NOx and PM in g/hr provided by the CARB (2002) are used. The emission factor for SOx in lb/hp-hr is from the SCAQMD CEQA Handbook (SCAQMD 1999).
(d) The PM10 weight fraction of PM is 0.976 (CARB 2000).

Table A.4-2 Source Data for Exhaust Emissions - On-Site Operational Vehicles (75-Acre Landfill Alternative)

Vehicle Type (a)	Number Per Day(a)	VMT Per Hour (b)	Work Hours Per Day (hr/day) (a,	Work Days Per Year (a)	Emission Factors (g/mile) (c) CO	ROC	NOx	SOx	PM10	Source Category
Trucks	0	10	3	360	1.95	0.42	10.22	0.02	0.22	HHDT (Diesel)
Vans	2	25	6	360	3.34	0.34	0.31	0.004	0.03	LDA (Gasoline)

Notes: (a) Source of Data: POLB 2002.
(b) The VMT per hour for a vehicle was assumed to equal to vehicle hourly travel speeds, which were provided by the POLB (2002).
(c) Source of Data: EMFAC2002. The higher emission factors predicted for summer and winter in 2011 are used.

Table A.4-3 Source Data for Exhaust Emissions - Off-Site Transportation Trucks (75-Acre Landfill Alternative)

Vehicle Type (a)	Number Trips Per Day(a)	Trip Distance Mile Per Trip (b)	Work Days Per Year	Emission Factors (g/mile) (c) CO	ROC	NOx	SOx	PM10	Source Category
Trucks	1136	15	360	1.95	0.42	10.22	0.02	0.22	HHDT (Diesel)

Notes: (a) Source of Data: MMA 2002 (incremental project trips).
(b) Source of Data: MMA 2002.
(c) Source of Data: EMFAC2002. The higher emission factors predicted for summer and winter in 2011 are used.

Table A.4-4 Source Data for Fugitive Dust Emissions - On-site Operational Vehicles on Paved Roads (75-Acre Landfill Alternative)

Vehicle Type (a)	Number Per Day(a)	VMT Per Hour (b)	Work Hours Per Day (hr/day) (a,	Work Days Per Year (a)	Emission Factors (lb/mile) (c) CO	ROC	NOx	SOx	PM10	Source Category
Trucks	0	10	3	360					0.0078	Trucks
Vans	2	25	6	360					0.0005	LDA

Notes: (a) Source of Data: POLB 2002.
(b) The VMT per hour for a vehicle was assumed to equal to vehicle hourly travel speeds, which were provided by the POLB (2002).
(c) Source of Data: EPA AP-42 (Section 13.2-1 - vehicles on freeway).

Table A.4-5 Source Data for Fugitive Dust Emissions - Off-Site Transportation Trucks on Paved Roads (75-Acre Landfill Alternative)

Vehicle Type (a)	Number Trips Per Day(a)	Trip Distance Mile Per Trip (b)	Work Days Per Year	Emission Factor (lb/mile) (c) CO	ROC	NOx	SOx	PM10	Source Category
Trucks	1136	15	360					0.0078	Trucks

Notes: (a) Source of Data: MMA 2002 (incremental project trips).
(b) Source of Data: MMA 2002.
(c) Source of Data: EPA AP-42 (Section 13.2-1 - vehicles on freeway).

Table A.4-6 Source Data for Exhaust Emissions - Trains (75-Acre Landfill Alternative)

Trains	No. of Train Trips Per Day(a)	Miles Per Train Trip (b)	Engine Fuel Usage (gal/train-mile) (c)	No. of Train Trips Per Year	Emission Factor (g/gal) (d) CO	TOC	NOx	SOx	PM	PM10 (e)	Source Category
Line Haul	0.8	26	2.69	291.2	27.40	9.10	161.10		5.70	5.563	Line Haul

Notes: (a) Source of Data: POLB 2002 (incremental train trips). A full train is 25-cars and the number of the train trip less than one indicates a train with less than 25-cars.
(b) Source of Data: POLB 2002 (distance to East Los Angeles rail yard).
(c) Source of Data: EPA 2001.
(d) Source of Data: EPA 1997 (Emission factors for 2011).
(e) The PM10 weight fraction of PM is 0.976 (CARB 2000).

Table A.4-7 Source Data for Exhaust Emissions - Marine Vessels (75-Acre Landfill Alternative)

Source Type	Ships DWT (a)	Design Categories (a)	Percentage of Ships (%) (b)	Ship Calls Per Day (c)	Energy Used (kWh/call) (a)	Visit Time Per Call (hour) (a)	Ship Calls Per Year (c)	Emission Factors (g/kWh) (a) CO	ROC	NOx	SOx	PM	PM10	Source Category
Container-Cruising (d) (e)	<10,300	600-800	3.70%	0.009	3518		3.222	1.60E+00	5.00E-01	2.08E+01	1.18E+01	1.37E+00	1.32E+00	Container - Cruising
Container-Cruising (d)	10,300-15,800	600-800	0.53%	0.001	3518		0.460	1.60E+00	5.00E-01	2.08E+01	1.18E+01	1.37E+00	1.32E+00	Container - Cruising
Container-Cruising (d)	15,800-22,100	800-1000	0.00%	0.000	3471		0.000	1.60E+00	5.00E-01	2.38E+01	1.18E+01	1.37E+00	1.32E+00	Container - Cruising
Container-Cruising (d)	22,100-29,100	1000-1200	5.82%	0.014	3044		5.063	1.60E+00	5.00E-01	2.38E+01	1.18E+01	1.37E+00	1.32E+00	Container - Cruising
Container-Cruising (d)	29,100-36,700	1200-1400	0.53%	0.001	3243		0.460	1.60E+00	5.00E-01	2.38E+01	1.18E+01	1.37E+00	1.32E+00	Container - Cruising
Container-Cruising (d)	36,700-44,800	1400-1600	6.35%	0.015	3536		5.524	1.60E+00	5.00E-01	2.87E+01	1.18E+01	1.37E+00	1.32E+00	Container - Cruising
Container-Cruising (d)	44,800-53,500	1600-1800	16.93%	0.041	3557		14.730	1.60E+00	5.00E-01	2.87E+01	1.18E+01	1.37E+00	1.32E+00	Container - Cruising
Container-Cruising (d)	53,500-62,700	1800-2000	49.21%	0.119	4083		42.810	1.60E+00	5.00E-01	2.87E+01	1.18E+01	1.37E+00	1.32E+00	Container - Cruising
Container-Cruising (d)	72,300-82,400	2200-2400	0.00%	0.000	5027		0.000	1.60E+00	5.00E-01	2.87E+01	1.18E+01	1.37E+00	1.32E+00	Container - Cruising
Container-Cruising (d)	82,400-93,000	2400-2600	6.88%	0.017	4970		5.984	1.60E+00	5.00E-01	2.87E+01	1.18E+01	1.37E+00	1.32E+00	Container - Cruising
Container-Cruising (d)	93,000-103,900	2600-2800	0.00%	0.000	4197		0.000	1.60E+00	5.00E-01	2.87E+01	1.18E+01	1.37E+00	1.32E+00	Container - Cruising
Container-Cruising (d)	103,900-115,200	2800-3000	10.05%	0.024	4781		8.746	1.60E+00	5.00E-01	2.87E+01	1.18E+01	1.37E+00	1.32E+00	Container - Cruising
Subtotal			100.00%	0.242			87							
Daily Emissions (f)				1.000	4781			1.60E+00	5.00E-01	2.87E+01	1.18E+01	1.37E+00	1.32E+00	Container - Cruising
Container-Maneuvering (g) (e)	<10,300	600-800	3.70%	0.009	2963		3.222	1.66E+00	5.20E-01	2.79E+01	1.18E+01	1.37E+00	1.32E+00	Container - Maneuvering
Container-Maneuvering (g)	10,300-15,800	600-800	0.53%	0.001	2963		0.460	1.66E+00	5.20E-01	2.79E+01	1.18E+01	1.37E+00	1.32E+00	Container - Maneuvering
Container-Maneuvering (g)	15,800-22,100	800-1000	0.00%	0.000	3929		0.000	1.66E+00	5.20E-01	2.79E+01	1.18E+01	1.37E+00	1.32E+00	Container - Maneuvering
Container-Maneuvering (g)	22,100-29,100	1000-1200	5.82%	0.014	4024		5.063	1.66E+00	5.20E-01	2.79E+01	1.18E+01	1.37E+00	1.32E+00	Container - Maneuvering
Container-Maneuvering (g)	29,100-36,700	1200-1400	0.53%	0.001	4640		0.460	1.66E+00	5.20E-01	2.79E+01	1.18E+01	1.37E+00	1.32E+00	Container - Maneuvering
Container-Maneuvering (g)	36,700-44,800	1400-1600	6.35%	0.015	5968		5.524	1.66E+00	5.20E-01	2.79E+01	1.18E+01	1.37E+00	1.32E+00	Container - Maneuvering
Container-Maneuvering (g)	44,800-53,500	1600-1800	16.93%	0.041	6553		14.730	1.66E+00	5.20E-01	2.79E+01	1.18E+01	1.37E+00	1.32E+00	Container - Maneuvering
Container-Maneuvering (g)	53,500-62,700	1800-2000	49.21%	0.119	7341		42.810	1.66E+00	5.20E-01	2.79E+01	1.18E+01	1.37E+00	1.32E+00	Container - Maneuvering
Container-Maneuvering (g)	72,300-82,400	2200-2400	0.00%	0.000	10335		0.000	1.66E+00	5.20E-01	2.79E+01	1.18E+01	1.37E+00	1.32E+00	Container - Maneuvering
Container-Maneuvering (g)	82,400-93,000	2400-2600	6.88%	0.017	10584		5.984	1.66E+00	5.20E-01	2.79E+01	1.18E+01	1.37E+00	1.32E+00	Container - Maneuvering
Container-Maneuvering (g)	93,000-103,900	2600-2800	0.00%	0.000	9735		0.000	1.66E+00	5.20E-01	2.79E+01	1.18E+01	1.37E+00	1.32E+00	Container - Maneuvering
Container-Maneuvering (g)	103,900-115,200	2800-3000	10.05%	0.024	11284		8.746	1.66E+00	5.20E-01	2.79E+01	1.18E+01	1.37E+00	1.32E+00	Container - Maneuvering
Subtotal			100.00%	0.242			87							
Daily Emissions (f)				1.000	11284			1.66E+00	5.20E-01	2.79E+01	1.18E+01	1.37E+00	1.32E+00	Container - Maneuvering
Container-Hotelling (h) (e)	<10,300	600-800	3.70%	0.009		51.08	3.222	2.67E+00	2.86E+00	1.74E+01	1.49E+01	8.60E-01	8.26E-01	Auxiliary Power (lb/hour)
Container-Hotelling (h)	10,300-15,800	600-800	0.53%	0.001		51.08	0.460	2.67E+00	2.86E+00	1.74E+01	1.49E+01	8.60E-01	8.26E-01	Auxiliary Power (lb/hour)
Container-Hotelling (h)	15,800-22,100	800-1000	0.00%	0.000		51.08	0.000	2.67E+00	2.86E+00	1.74E+01	1.49E+01	8.60E-01	8.26E-01	Auxiliary Power (lb/hour)
Container-Hotelling (h)	22,100-29,100	1000-1200	5.82%	0.014		51.08	5.063	2.67E+00	2.86E+00	1.74E+01	1.49E+01	8.60E-01	8.26E-01	Auxiliary Power (lb/hour)
Container-Hotelling (h)	29,100-36,700	1200-1400	0.53%	0.001		51.08	0.460	2.67E+00	2.86E+00	1.74E+01	1.49E+01	8.60E-01	8.26E-01	Auxiliary Power (lb/hour)
Container-Hotelling (h)	36,700-44,800	1400-1600	6.35%	0.015		51.08	5.524	2.67E+00	2.86E+00	1.74E+01	1.49E+01	8.60E-01	8.26E-01	Auxiliary Power (lb/hour)
Container-Hotelling (h)	44,800-53,500	1600-1800	16.93%	0.041		51.08	14.730	2.67E+00	2.86E+00	1.74E+01	1.49E+01	8.60E-01	8.26E-01	Auxiliary Power (lb/hour)
Container-Hotelling (h)	53,500-62,700	1800-2000	49.21%	0.119		51.08	42.810	2.67E+00	2.86E+00	1.74E+01	1.49E+01	8.60E-01	8.26E-01	Auxiliary Power (lb/hour)
Container-Hotelling (h)	72,300-82,400	2200-2400	0.00%	0.000		51.08	0.000	2.67E+00	2.86E+00	1.74E+01	1.49E+01	8.60E-01	8.26E-01	Auxiliary Power (lb/hour)
Container-Hotelling (h)	82,400-93,000	2400-2600	6.88%	0.017		51.08	5.984	2.67E+00	2.86E+00	1.74E+01	1.49E+01	8.60E-01	8.26E-01	Auxiliary Power (lb/hour)
Container-Hotelling (h)	93,000-103,900	2600-2800	0.00%	0.000		51.08	0.000	2.67E+00	2.86E+00	1.74E+01	1.49E+01	8.60E-01	8.26E-01	Auxiliary Power (lb/hour)
Container-Hotelling (h)	103,900-115,200	2800-3000	10.05%	0.024		51.08	8.746	2.67E+00	2.86E+00	1.74E+01	1.49E+01	8.60E-01	8.26E-01	Auxiliary Power (lb/hour)
Subtotal			100.00%	0.242			87							Auxiliary Power (lb/hour)
Daily Emissions (f)				1.000		21.0		2.67E+00	2.86E+00	1.74E+01	1.49E+01	8.60E-01	8.26E-01	Auxiliary Power (lb/hour)

	Ship Calls Per Day (f)	Fuel Usage (gal/hr) (i)	Visit Time Per Call (hour) (j)	Ship Calls Per Year (c)	Emission Factors (lb/1000gal) (j) CO	ROC	NOx	SOx	PM	PM10	Source Category
Tug Boat	1.000	87.5	1.0	87	1.90E+01	5.70E+01	4.19E+02	7.50E+01	9.00E+00	8.64E+00	Tugboat

Notes: (a) Source of Data: ARCADIS 1999. Emission factors for 2010 are used. Unit of emission factors for container hotelling is lb/hour.

(b) Percentages of ships in each of the design categories are derived based on the 1999 shipping data provided by the Port of Long Beach (POLB 2001).

(c) Daily and annual ship calls for each of the design categories are derived based on the percentages of ships in each of categories and the total annual incremental container calls.

(d) The speed for a container during cruising inside the precautionary zone is 12 knots.

(e) The data for a container within 10,300-15,800 DWT listed in the ARCADIS report are used for a container less than 10,300 DWT.

(f) Daily emissions were conservatively estimated assuming that one largest container ship (103,900-115,200 DWT) is cruising (1 hour), maneuvering (2 hours) and hotelling (21 hours) at the same day.

(g) The speed for a container during maneuvering is 5 knots.

(h) Combined emission factors for auxiliary power engines and boilers are used in the calculations.

(i) Source of Data: 1995 Lloyd's shipping report.

(j) Source of Data: Acurex 1996. Unit of emission factors for tug boats is lb/1000gal.

Table A.4-8 Source Data for Exhaust Emissions - Autos (75-Acre Landfill Alternative)

Vehicle Type	Number Trips Per Day(a)	Trip Distance Miles per Vehicle (b)	Work Days Per Year (a)	Emission Factors (g/mile) (c) CO	ROC	NOx	SOx	PM10	Source Category
Autos	349	11	360	3.34	0.34	0.31	0.004	0.03	LDA (Gasoline)

Notes: (a) Source of Data: POLB 2002 (incremental auto trips). The fleet mix was assumed to be 100% of cars.
(b) Source of Data: SCAQMD 1999.
(c) Source of Data: EMFAC2002. The higher emission factors predicted for summer and winter in 2011 are used.

Table A.4-9 Source Data for Fugitive Dust Emissions - Autos on Paved Roads (75-Acre Landfill Alternative)

Vehicle Type	Number Trips Per Day(a)	Trip Distance Miles per Vehicle (b)	Work Days Per Year (a)	Emission Factor (lb/mile) (c) CO	ROC	NOx	SOx	PM10	Source Category
Autos on Paved Road	349	11	360					0.0005	Paved Road

Notes: (a) Source of Data: POLB 2002 (incremental auto trips).
(b) Source of Data: SCAQMD 1999.
(c) Source of Data: EPA AP-42 (Section 13.2-1 - vehicles on freeway)

Table A.4-10 Estimated Exhaust Emissions - On-Site Operational Equipment (75-Acre Landfill Alternative)

Equipment Type	Daily Emissions (lbs/day)					Annual Emissions (tons/year)				
	CO	TOC	NOx	SOx	PM10	CO	ROC	NOx	SOx	PM10
Cranes (electric)	-	-	-	-	-	-	-	-	-	-
Top Handlers	-	-	-	-	-	-	-	-	-	-
RTG	-	-	-	-	-	-	-	-	-	-
Side Handler	8.13	2.24	32.37	5.51	1.16	1.46	0.40	5.83	0.99	0.21
Yard Hostlers	-	-	-	-	-	-	-	-	-	-
Total Emissions	8.13	2.24	32.37	5.51	1.16	1.46	0.40	5.83	0.99	0.21

Table A.4-11 Estimated Exhaust Emissions - On-Site Operational Vehicles (75-Acre Landfill Alternative)

Vehicle Type	Daily Emissions (lbs/day)					Annual Emissions (tons/year)				
	CO	ROC	NOx	SOx	PM10	CO	ROC	NOx	SOx	PM10
Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vans	2.21	0.22	0.21	0.00	0.02	0.40	0.04	0.04	0.00	0.00
Total Emissions	2.21	0.22	0.21	0.00	0.02	0.40	0.04	0.04	0.00	0.00

Table A.4-12 Estimated Exhaust Emissions - Off-Site Transportation Trucks (75-Acre Landfill Alternative)

Vehicle Type	Daily Emissions (lbs/day)					Annual Emissions (tons/year)				
	CO	ROC	NOx	SOx	PM10	CO	ROC	NOx	SOx	PM10
Trucks	73.25	15.78	383.93	0.00	8.26	13.19	2.84	69.11	0.00	1.49
Total Emissions	73.25	15.78	383.93	0.00	8.26	13.19	2.84	69.11	0.00	1.49

Table A.4-13 Estimated Fugitive Dust Emissions - On-Site Operational Vehicles on Paved Roads (75-Acre Landfill Alternative)

	Daily Emissions (lbs/day)					Annual Emissions (tons/year)				
Vehicle Type	*CO*	*ROC*	*NOx*	*SOx*	*PM10*	*CO*	*ROC*	*NOx*	*SOx*	*PM10*
Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vans	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.03
Total Emissions	**0.00**	**0.00**	**0.00**	**0.00**	**0.15**	**0.00**	**0.00**	**0.00**	**0.00**	**0.03**

A.4-14 Estimated Fugitive Dust Emissions - Off-Site Transportation Trucks on Paved Roads (75-Acre Landfill Alternative)

	Daily Emissions (lbs/day)					Annual Emissions (tons/year)				
Vehicle Type	*CO*	*ROC*	*NOx*	*SOx*	*PM10*	*CO*	*ROC*	*NOx*	*SOx*	*PM10*
Trucks					132.91					23.92
Total Emissions	**0.00**	**0.00**	**0.00**	**0.00**	**132.91**	**0.00**	**0.00**	**0.00**	**0.00**	**23.92**

Table A.4-15 Estimated Exhaust Emissions - Trains (75-Acre Landfill Alternative)

	Daily Emissions (lbs/day)					Annual Emissions (tons/year)				
Trains	*CO*	*ROC*	*NOx*	*SOx*	*PM10*	*CO*	*ROC*	*NOx*	*SOx*	*PM10*
Line Haul	3.38	1.12	19.87	0.00	0.69	0.62	0.20	3.62	0.00	0.12
Total Emissions	**3.38**	**1.12**	**19.87**	**0.00**	**0.69**	**0.62**	**0.20**	**3.62**	**0.00**	**0.12**

Table A.4-16 Estimated Exhaust Emissions - Marine Vessels (75-Acre Landfill Alternative)

Source Type	Daily Emissions (lbs/day) CO	ROC	NOx	SOx	PM10	Annual Emissions (tons/year) CO	ROC	NOx	SOx	PM10
Container-Cruising (d) (e)						0.020	0.006	0.260	0.147	0.016
Container-Cruising (d)						0.003	0.001	0.037	0.021	0.002
Container-Cruising (d)						0.000	0.000	0.000	0.000	0.000
Container-Cruising (d)						0.027	0.008	0.405	0.200	0.022
Container-Cruising (d)						0.003	0.001	0.039	0.019	0.002
Container-Cruising (d)						0.034	0.011	0.619	0.253	0.028
Container-Cruising (d)						0.092	0.029	1.660	0.679	0.076
Container-Cruising (d)						0.308	0.096	5.537	2.266	0.253
Container-Cruising (d)						0.000	0.000	0.000	0.000	0.000
Container-Cruising (d)						0.052	0.016	0.942	0.386	0.043
Container-Cruising (d)						0.000	0.000	0.000	0.000	0.000
Container-Cruising (d)						0.074	0.023	1.325	0.542	0.061
Daily Emissions (f)	16.86	5.27	302.92	123.95	13.86					
Container-Maneuvering (g) (e)						0.018	0.005	0.294	0.124	0.014
Container-Maneuvering (g)						0.003	0.001	0.042	0.018	0.002
Container-Maneuvering (g)						0.000	0.000	0.000	0.000	0.000
Container-Maneuvering (g)						0.037	0.012	0.627	0.264	0.030
Container-Maneuvering (g)						0.004	0.001	0.066	0.028	0.003
Container-Maneuvering (g)						0.060	0.019	1.015	0.427	0.048
Container-Maneuvering (g)						0.177	0.055	2.972	1.251	0.140
Container-Maneuvering (g)						0.576	0.180	9.675	4.074	0.456
Container-Maneuvering (g)						0.000	0.000	0.000	0.000	0.000
Container-Maneuvering (g)						0.116	0.036	1.950	0.821	0.092
Container-Maneuvering (g)						0.000	0.000	0.000	0.000	0.000
Container-Maneuvering (g)						0.181	0.057	3.038	1.279	0.143
Daily Emissions (f)	41.39	12.94	694.80	292.55	32.72					
Container-Hoteling (h) (e)						0.220	0.235	1.430	1.222	0.068
Container-Hoteling (h)						0.031	0.034	0.204	0.175	0.010
Container-Hoteling (h)						0.000	0.000	0.000	0.000	0.000
Container-Hoteling (h)						0.345	0.370	2.248	1.920	0.107
Container-Hoteling (h)						0.031	0.034	0.204	0.175	0.010
Container-Hoteling (h)						0.377	0.403	2.452	2.095	0.116
Container-Hoteling (h)						1.004	1.076	6.538	5.587	0.311
Container-Hoteling (h)						2.919	3.127	19.003	16.236	0.903
Container-Hoteling (h)						0.000	0.000	0.000	0.000	0.000
Container-Hoteling (h)						0.408	0.437	2.656	2.270	0.126
Container-Hoteling (h)						0.000	0.000	0.000	0.000	0.000
Container-Hoteling (h)						0.596	0.639	3.882	3.317	0.184
Daily Emissions (f)	56.07	60.06	364.98	311.85	17.34					
Tug Boat	1.66	4.99	36.66	6.56	0.76	0.072	0.217	1.595	0.285	0.033
Total Emissions	**115.99**	**83.25**	**1399.37**	**734.91**	**64.67**	**7.79**	**7.13**	**70.72**	**46.08**	**3.30**

A.4-17 Estimated Exhaust Emissions - Autos (75-Acre Landfill Alternative)

	Daily Emissions (lbs/day)					Annual Emissions (tons/year)				
Vehicles	CO	ROC	NOx	SOx	PM10	CO	ROC	NOx	SOx	PM10
Autos	28.27	2.88	2.62	0.00	0.25	5.09	0.52	0.47	0.00	0.05
Total Emissions	28.27	2.88	2.62	0.00	0.25	5.09	0.52	0.47	0.00	0.05

A.4-18 Estimated Fugitive Dust Emissions - Autos on Paved Roads (75-Acre Landfill Alternative)

	Daily Emissions (lbs/day)					Annual Emissions (tons/year)				
Vehicles	CO	ROC	NOx	SOx	PM10	CO	ROC	NOx	SOx	PM10
Autos on Paved Road					1.92					0.35
Total Emissions	0.00	0.00	0.00	0.00	1.92	0.00	0.00	0.00	0.00	0.35

A.4-19 Summary of Estimated Operational Emissions (75-Acre Landfill Alternative)

	Daily Emissions (lbs/day)					Annual Emissions (tons/year)				
Emissions	*CO*	*ROC*	*NOx*	*SOx*	*PM10*	*CO*	*ROC*	*NOx*	*SOx*	*PM10*
Exhaust Emissions - On-Site Operational Equipment	8.13	2.24	32.37	5.51	1.16	1.46	0.40	5.83	0.99	0.21
Exhaust Emissions - On-Site Operational Vehicles	2.21	0.22	0.21	0.00	0.02	0.40	0.04	0.04	0.00	0.00
Exhaust Emissions - Off-Site Transportation Trucks	73.25	15.78	383.93	0.00	8.26	13.19	2.84	69.11	0.00	1.49
Fugitive Dust Emissions - On-Site Vehicles on Paved Roads	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.03
Fugitive Dust Emissions - Off-Site Trucks on Paved Roads	0.00	0.00	0.00	0.00	132.91	0.00	0.00	0.00	0.00	23.92
Exhaust Emissions - Trains	3.38	1.12	19.87	0.00	0.69	0.62	0.20	3.62	0.00	0.12
Exhaust Emissions - Marine Vessels	115.99	83.25	1399.37	734.91	64.67	7.79	7.13	70.72	46.08	3.30
Exhaust Emissions - Automobiles	28.27	2.88	2.62	0.00	0.25	5.09	0.52	0.47	0.00	0.05
Fugitive Dust Emissions - Autos on Paved Roads	0.00	0.00	0.00	0.00	1.92	0.00	0.00	0.00	0.00	0.35
Total Emissions	231.23	105.49	1838.36	740.42	210.01	28.54	11.14	149.77	47.07	29.47

A.4-20 Estimated Exhaust Emissions - On-Site Operational Equipment after Mitigation (75-Acre Landfill Alternative)

Equipment Type	Daily Emissions (lbs/day)					Annual Emissions (tons/year)				
	CO	ROC	NOx	SOx	PM10	CO	ROC	NOx	SOx	PM10
Cranes (electric)	-	-	-	-	-	-	-	-	-	-
Top Handlers	-	-	-	-	-	-	-	-	-	-
RTG	-	-	-	-	-	-	-	-	-	-
Side Handler	8.13	2.24	32.37	5.51	1.16	1.46	0.40	5.83	0.99	0.21
Yard Hostlers	-	-	-	-	-	-	-	-	-	-
Total Emissions	8.13	2.24	32.37	5.51	1.16	1.46	0.40	5.83	0.99	0.21

A.4-21 Estimated Exhaust Emissions - On-Site Operational Vehicles after Mitigation (75-Acre Landfill Alternative)

Source Type	Daily Emissions (lbs/day)					Annual Emissions (tons/year)				
	CO	ROC	NOx	SOx	PM10	CO	ROC	NOx	SOx	PM10
Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vans	2.21	0.22	0.21	0.00	0.02	0.40	0.04	0.04	0.00	0.00
Total Emissions	2.21	0.22	0.21	0.00	0.02	0.40	0.04	0.04	0.00	0.00

A.4-22 Estimated Exhaust Emissions - Off-Site Transportation Vehicles after Mitigation (75-Acre Landfill Alternative)

Source Type	Daily Emissions (lbs/day)					Annual Emissions (tons/year)				
	CO	ROC	NOx	SOx	PM10	CO	ROC	NOx	SOx	PM10
Trucks	73.25	15.78	383.93	0.00	8.26	13.19	2.84	69.11	0.00	1.49
Total Emissions	73.25	15.78	383.93	0.00	8.26	13.19	2.84	69.11	0.00	1.49

A.4-23 Estimated Exhaust Emissions - Autos after Mitigation (75-Acre Landfill Alternative)

Equipment Type	Daily Emissions (lbs/day)					Annual Emissions (tons/year)				
	CO	ROC	NOx	SOx	PM10	CO	ROC	NOx	SOx	PM10
Autos	27.70	2.82	2.57	0.00	0.25	4.99	0.51	0.46	0.00	0.04
Total Emissions	27.70	2.82	2.57	0.00	0.25	4.99	0.51	0.46	0.00	0.04

Notes: (a) ROC, NOx, CO, and PM10 emissions from the autos have been reduced by 2 percent due to the use of the ridesharing and mass transit program (SCAQMD 1999).

A.4-24 Estimated Fugitive Dust Emissions - Autos after Mitigation (75-Acre Landfill Alternative)

Construction Activity	Daily Emissions (lbs/day) (a)					Annual Emissions (tons/year)				
	CO	ROC	NOx	SOx	PM10	CO	ROC	NOx	SOx	PM10
Autos on Paved Road					1.88					0.34
Total Emissions	0.00	0.00	0.00	0.00	1.88	0.00	0.00	0.00	0.00	0.34

Notes: (a) PM10 emissions from the autos have been reduced by 2 percent due to the use of the ridesharing and mass transit program (SCAQMD 1999).

A.4-25 Summary of Estimated Operational Emissions after Mitigation (75-Acre Landfill Alternative)

Emissions	Daily Emissions (lbs/day)					Annual Emissions (tons/year)				
	CO	ROC	NOx	SOx	PM10	CO	ROC	NOx	SOx	PM10
Exhaust Emissions - On-Site Operational Equipment	8.13	2.24	32.37	5.51	1.16	1.46	0.40	5.83	0.99	0.21
Exhaust Emissions - On-Site Operational Vehicles	2.21	0.22	0.21	0.00	0.02	0.40	0.04	0.04	0.00	0.00
Exhaust Emissions - Off-Site Transportation Trucks	73.25	15.78	383.93	0.00	8.26	13.19	2.84	69.11	0.00	1.49
Fugitive Dust Emissions - On-Site Vehicles on Paved Roads	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.03
Fugitive Dust Emissions - Off-Site Trucks on Paved Roads	0.00	0.00	0.00	0.00	132.91	0.00	0.00	0.00	0.00	23.92
Exhaust Emissions - Trains	3.38	1.12	19.87	0.00	0.69	0.49	0.16	2.89	0.00	0.10
Exhaust Emissions - Marine Vessels	115.99	83.25	1399.37	734.91	64.67	7.79	7.13	70.72	46.08	3.30
Exhaust Emissions - Automobiles	27.70	2.82	2.57	0.00	0.25	4.99	0.51	0.46	0.00	0.04
Fugitive Dust Emissions - Autos on Paved Roads	0.00	0.00	0.00	0.00	1.88	0.00	0.00	0.00	0.00	0.34
Total Emissions	230.67	105.43	1838.31	740.42	210.00	28.32	11.08	149.04	47.07	29.43

Pier J South Marine Terminal Redevelopment - Operational Emission Calculations (Revision 2004)

Table A.6-1 Source Data for Exhaust Emissions - On-Site Operational Equipment (52-Acre Landfill Alternative)

Equipment Type (a)	Number Active(a)	Rated HP (b)	Load Factor (b)	Work Hrs Per Day (a)	Work Days Per Year (a)	Emission Factors (g/hr) or (lb/hp-hr) (c) CO	TOC	NOx	SOx	PM	PM10 (d)	Source Category
Cranes (electric)	-	-	-	-	360	-	-	-	-		-	-
Top Handlers	0	330	0.510	6	360	-	-	-	-		-	Large CI engine
RTG	0	250	0.510	7	360	-	-	-	-		-	Large CI engine
Side Handler	3	225	0.510	6	360	175.087	52.561	754.542	0.002	26.624	25.99	Large CI engine
Yard Hostlers	0	175	0.510	4	360	-	-	-	-		-	Large CI engine

Notes: (a) Source of Data: POLB 2002. All equipment is diesel-fueled, unless otherwise indicated.
(b) Equipment horse power ratings and operating hours were provided by the POLB (2000). The load factor for other general industrial equipment listed in the CARB emission inventory report (2000) is used.
(c) The emission factors (2007) for CO, TOC, NOx and PM in g/hr provided by the CARB (2002) are used. The emission factor for SOx in lb/hp-hr is from the SCAQMD CEQA Handbook (SCAQMD 1999).
(d) The PM10 weight fraction of PM is 0.976 (CARB 2000).

Table A.6-2 Source Data for Exhaust Emissions - On-Site Operational Vehicles (52-Acre Landfill Alternative)

Vehicle Type (a)	Number Per Day(a)	VMT Per Hour (b)	Work Hours Per Day (hr/day) (a,	Work Days Per Year (a)	Emission Factors (g/mile) (c) CO	ROC	NOx	SOx	PM10	Source Category
Trucks	0	10	3	360	2.72	0.60	16.73	0.02	0.31	HHDT (Diesel)
Vans	2	25	6	360	4.66	0.48	0.47	0.004	0.03	LDA (Gasoline)

Notes: (a) Source of Data: POLB 2002.
(b) The VMT per hour for a vehicle was assumed to equal to vehicle hourly travel speeds, which were provided by the POLB (2002).
(c) Source of Data: EMFAC2002. The higher emission factors predicted for summer and winter in 2007 are used.

Table A.6-3 Source Data for Exhaust Emissions - Off-Site Transportation Trucks (52-Acre Landfill Alternative)

Vehicle Type (a)	Number Trips Per Day(a)	Trip Distance Mile Per Trip (b)	Work Days Per Year	Emission Factors (g/mile) (c) CO	ROC	NOx	SOx	PM10	Source Category
Trucks	783	15	360	2.72	0.60	16.73	0.02	0.31	HHDT (Diesel)

Notes: (a) Source of Data: MMA 2002 (incremental project trips).
(b) Source of Data: MMA 2002.
(c) Source of Data: EMFAC2002. The higher emission factors predicted for summer and winter in 2007 are used.

Table A.6-4 Source Data for Fugitive Dust Emissions - On-site Operational Vehicles on Paved Roads (52-Acre Landfill Alternative)

Vehicle Type (a)	Number Per Day(a)	VMT Per Hour (b)	Work Hours Per Day (hr/day) (a)	Work Days Per Year (a)	Emission Factors (lb/mile) (c) CO	ROC	NOx	SOx	PM10	Source Category
Trucks	0	10	3	360					0.0078	Trucks
Vans	2	25	6	360					0.0005	LDA

Notes: (a) Source of Data: POLB 2002.
(b) The VMT per hour for a vehicle was assumed to equal to vehicle hourly travel speeds, which were provided by the POLB (2002).
(c) Source of Data: EPA AP-42 (Section 13.2-1 - vehicles on freeway).

Table A.6-5 Source Data for Fugitive Dust Emissions - Off-Site Transportation Trucks on Paved Roads (52-Acre Landfill Alternative)

Vehicle Type (a)	Number Trips Per Day(a)	Trip Distance Mile Per Trip (b)	Work Days Per Year	Emission Factor (lb/mile) (c) CO	ROC	NOx	SOx	PM10	Source Category
Trucks	783	15	360					0.0078	Trucks

Notes: (a) Source of Data: MMA 2002 (incremental project trips).
(b) Source of Data: MMA 2002.
(c) Source of Data: EPA AP-42 (Section 13.2-1 - vehicles on freeway).

Table A.6-6 Source Data for Exhaust Emissions - Trains (52-Acre Landfill Alternative)

Trains	No. of Train Trips Per Day(a)	Miles Per Train Trip (b)	Engine Fuel Usage (gal/train-mile) (c)	No. of Train Trips Per Year	Emission Factor (g/gal) (d) CO	TOC	NOx	SOx	PM	PM10 (e)	Source Category
Line Haul	0.57	26	2.69	208	27.40	9.80	177.00		6.20	6.051	Line Haul

Notes: (a) Source of Data: POLB 2002 (incremental train trips).
(b) Source of Data: POLB 2002 (distance to E. Los Angeles rail yard).
(c) Source of Data: EPA 2001.
(d) Source of Data: EPA 1997 (Emission factors for 2007).
(e) The PM10 weight fraction of PM is 0.976 (CARB 2000).

Table A.6-7 Source Data for Exhaust Emissions - Marine Vessels (52-Acre Landfill Alternative)

Source Type	Ships DWT (a)	Design Categories (a)	Percentage of Ships (%) (b)	Ship Calls Per Day (c)	Energy Used (kWh/call) (a)	Visit Time Per Call (hour) (a)	Ship Calls Per Year (c)	Emission Factors (g/kWh) (a) CO	ROC	NOx	SOx	PM	PM10	Source Category
Container-Cruising (d) (e)	<10,300	600-800	3.70%	0.006	3518		2.222	1.60E+00	5.00E-01	2.08E+01	1.18E+01	1.37E+00	1.32E+00	Container - Cruising
Container-Cruising (d)	10,300-15,800	600-800	0.53%	0.001	3518		0.317	1.60E+00	5.00E-01	2.08E+01	1.18E+01	1.37E+00	1.32E+00	Container - Cruising
Container-Cruising (d)	15,800-22,100	800-1000	0.00%	0.000	3471		0.000	1.60E+00	5.00E-01	2.38E+01	1.18E+01	1.37E+00	1.32E+00	Container - Cruising
Container-Cruising (d)	22,100-29,100	1000-1200	5.82%	0.010	3044		3.492	1.60E+00	5.00E-01	2.38E+01	1.18E+01	1.37E+00	1.32E+00	Container - Cruising
Container-Cruising (d)	29,100-36,700	1200-1400	0.53%	0.001	3243		0.317	1.60E+00	5.00E-01	2.38E+01	1.18E+01	1.37E+00	1.32E+00	Container - Cruising
Container-Cruising (d)	36,700-44,800	1400-1600	6.35%	0.011	3536		3.810	1.60E+00	5.00E-01	2.87E+01	1.18E+01	1.37E+00	1.32E+00	Container - Cruising
Container-Cruising (d)	44,800-53,500	1600-1800	16.93%	0.028	3557		10.159	1.60E+00	5.00E-01	2.87E+01	1.18E+01	1.37E+00	1.32E+00	Container - Cruising
Container-Cruising (d)	53,500-62,700	1800-2000	49.21%	0.082	4083		29.524	1.60E+00	5.00E-01	2.87E+01	1.18E+01	1.37E+00	1.32E+00	Container - Cruising
Container-Cruising (d)	72,300-82,400	2200-2400	0.00%	0.000	5027		0.000	1.60E+00	5.00E-01	2.87E+01	1.18E+01	1.37E+00	1.32E+00	Container - Cruising
Container-Cruising (d)	82,400-93,000	2400-2600	6.88%	0.011	4970		4.127	1.60E+00	5.00E-01	2.87E+01	1.18E+01	1.37E+00	1.32E+00	Container - Cruising
Container-Cruising (d)	93,000-103,900	2600-2800	0.00%	0.000	4197		0.000	1.60E+00	5.00E-01	2.87E+01	1.18E+01	1.37E+00	1.32E+00	Container - Cruising
Container-Cruising (d)	103,900-115,200	2800-3000	10.05%	0.017	4781		6.032	1.60E+00	5.00E-01	2.87E+01	1.18E+01	1.37E+00	1.32E+00	Container - Cruising
Subtotal			100.00%	0.167			60							
Daily Emissions (f)				1.000	4781			1.60E+00	5.00E-01	2.87E+01	1.18E+01	1.37E+00	1.32E+00	Container - Cruising
Container-Maneuvering (g) (e)	<10,300	600-800	3.70%	0.006	2963		2.222	1.66E+00	5.20E-01	2.87E+01	1.18E+01	1.37E+00	1.32E+00	Container - Maneuvering
Container-Maneuvering (g)	10,300-15,800	600-800	0.53%	0.001	2963		0.317	1.66E+00	5.20E-01	2.87E+01	1.18E+01	1.37E+00	1.32E+00	Container - Maneuvering
Container-Maneuvering (g)	15,800-22,100	800-1000	0.00%	0.000	3929		0.000	1.66E+00	5.20E-01	2.87E+01	1.18E+01	1.37E+00	1.32E+00	Container - Maneuvering
Container-Maneuvering (g)	22,100-29,100	1000-1200	5.82%	0.010	4024		3.492	1.66E+00	5.20E-01	2.87E+01	1.18E+01	1.37E+00	1.32E+00	Container - Maneuvering
Container-Maneuvering (g)	29,100-36,700	1200-1400	0.53%	0.001	4640		0.317	1.66E+00	5.20E-01	2.87E+01	1.18E+01	1.37E+00	1.32E+00	Container - Maneuvering
Container-Maneuvering (g)	36,700-44,800	1400-1600	6.35%	0.011	5968		3.810	1.66E+00	5.20E-01	2.87E+01	1.18E+01	1.37E+00	1.32E+00	Container - Maneuvering
Container-Maneuvering (g)	44,800-53,500	1600-1800	16.93%	0.028	6553		10.159	1.66E+00	5.20E-01	2.87E+01	1.18E+01	1.37E+00	1.32E+00	Container - Maneuvering
Container-Maneuvering (g)	53,500-62,700	1800-2000	49.21%	0.082	7341		29.524	1.66E+00	5.20E-01	2.87E+01	1.18E+01	1.37E+00	1.32E+00	Container - Maneuvering
Container-Maneuvering (g)	72,300-82,400	2200-2400	0.00%	0.000	10335		0.000	1.66E+00	5.20E-01	2.87E+01	1.18E+01	1.37E+00	1.32E+00	Container - Maneuvering
Container-Maneuvering (g)	82,400-93,000	2400-2600	6.88%	0.011	10584		4.127	1.66E+00	5.20E-01	2.87E+01	1.18E+01	1.37E+00	1.32E+00	Container - Maneuvering
Container-Maneuvering (g)	93,000-103,900	2600-2800	0.00%	0.000	9735		0.000	1.66E+00	5.20E-01	2.87E+01	1.18E+01	1.37E+00	1.32E+00	Container - Maneuvering
Container-Maneuvering (g)	103,900-115,200	2800-3000	10.05%	0.017	11284		6.032	1.66E+00	5.20E-01	2.87E+01	1.18E+01	1.37E+00	1.32E+00	Container - Maneuvering
Subtotal			100.00%	0.167			60							
Daily Emissions (f)				1.000	11284			1.66E+00	5.20E-01	2.87E+01	1.18E+01	1.37E+00	1.32E+00	Container - Maneuvering
Container-Hotelling (h) (e)	<10,300	600-800	3.70%	0.006		51.08	2.222	2.67E+00	2.86E+00	1.74E+01	1.49E+01	8.60E-01	8.26E-01	Auxiliary Power (lb/hour)
Container-Hotelling (h)	10,300-15,800	600-800	0.53%	0.001		51.08	0.317	2.67E+00	2.86E+00	1.74E+01	1.49E+01	8.60E-01	8.26E-01	Auxiliary Power (lb/hour)
Container-Hotelling (h)	15,800-22,100	800-1000	0.00%	0.000		51.08	0.000	2.67E+00	2.86E+00	1.74E+01	1.49E+01	8.60E-01	8.26E-01	Auxiliary Power (lb/hour)
Container-Hotelling (h)	22,100-29,100	1000-1200	5.82%	0.010		51.08	3.492	2.67E+00	2.86E+00	1.74E+01	1.49E+01	8.60E-01	8.26E-01	Auxiliary Power (lb/hour)
Container-Hotelling (h)	29,100-36,700	1200-1400	0.53%	0.001		51.08	0.317	2.67E+00	2.86E+00	1.74E+01	1.49E+01	8.60E-01	8.26E-01	Auxiliary Power (lb/hour)
Container-Hotelling (h)	36,700-44,800	1400-1600	6.35%	0.011		51.08	3.810	2.67E+00	2.86E+00	1.74E+01	1.49E+01	8.60E-01	8.26E-01	Auxiliary Power (lb/hour)
Container-Hotelling (h)	44,800-53,500	1600-1800	16.93%	0.028		51.08	10.159	2.67E+00	2.86E+00	1.74E+01	1.49E+01	8.60E-01	8.26E-01	Auxiliary Power (lb/hour)
Container-Hotelling (h)	53,500-62,700	1800-2000	49.21%	0.082		51.08	29.524	2.67E+00	2.86E+00	1.74E+01	1.49E+01	8.60E-01	8.26E-01	Auxiliary Power (lb/hour)
Container-Hotelling (h)	72,300-82,400	2200-2400	0.00%	0.000		51.08	0.000	2.67E+00	2.86E+00	1.74E+01	1.49E+01	8.60E-01	8.26E-01	Auxiliary Power (lb/hour)
Container-Hotelling (h)	82,400-93,000	2400-2600	6.88%	0.011		51.08	4.127	2.67E+00	2.86E+00	1.74E+01	1.49E+01	8.60E-01	8.26E-01	Auxiliary Power (lb/hour)
Container-Hotelling (h)	93,000-103,900	2600-2800	0.00%	0.000		51.08	0.000	2.67E+00	2.86E+00	1.74E+01	1.49E+01	8.60E-01	8.26E-01	Auxiliary Power (lb/hour)
Container-Hotelling (h)	103,900-115,200	2800-3000	10.05%	0.017		51.08	6.032	2.67E+00	2.86E+00	1.74E+01	1.49E+01	8.60E-01	8.26E-01	Auxiliary Power (lb/hour)
Subtotal			100.00%	0.167			60							Auxiliary Power (lb/hour)
Daily Emissions (f)				1.000		21.0		2.67E+00	2.86E+00	1.74E+01	1.49E+01	8.60E-01	8.26E-01	Auxiliary Power (lb/hour)

	Ship Calls Per Day (f)	Fuel Usage (gal/hr) (i)	Visit Time Per Call (hour) (f)	Ship Calls Per Year (c)	Emission Factors (lb/1000gal) (j) CO	ROC	NOx	SOx	PM	PM10	Source Category
Tug Boat	1.000	87.5	1.0	60	1.90E+01	5.70E+01	4.19E+02	7.50E+01	9.00E+00	8.64E+00	Tugboat

Notes: (a) Source of Data: ARCADIS 1999. Emission factors for 2000 are used. Unit of emission factors for container hotelling is lb/hour.

(b) Percentages of ships in each of the design categories are derived based on the 1999 shipping data provided by the Port of Long Beach (POLB 2001).

(c) Daily and annual ship calls for each of the design categories are derived based on the percentages of ships in each of categories and the total annual incremental container calls.

(d) The speed for a container during cruising inside the precautionary zone is 12 knots.

(e) The data for a container within 10,300-15,800 DWT listed in the ARCADIS report are used for a container less than 10,300 DWT.

(f) Daily emissions were conservatively estimated assuming that one largest container ship (103,900-115,200 DWT) is cruising (1 hour), maneuvering (2 hours) and hotelling (21 hours) at the same day.

(g) The speed for a container during maneuvering is 5 knots.

(h) Combined emission factors for auxiliary power engines and boilers are used in the calculations.

(i) Source of Data: 1995 Lloyd's shipping report.

(j) Source of Data: Acurex 1996. Unit of emission factors for tug boats is lb/1000gal.

Table A.6-8 Source Data for Exhaust Emissions - Autos (52-Acre Landfill Alternative)

Vehicle Type	Number Trips Per Day(a)	Trip Distance Miles per Vehicle (b)	Work Days Per Year (a)	Emission Factors (g/mile) (c) CO	ROC	NOx	SOx	PM10	Source Category
Autos	242	11	360	4.66	0.48	0.47	0.004	0.03	LDA (Gasoline)

Notes: (a) Source of Data: POLB 2002 (incremental auto trips). The fleet mix was assumed to be 100% of cars.
(b) Source of Data: SCAQMD 1999.
(c) Source of Data: EMFAC2002. The higher emission factors predicted for summer and winter in 2007 are used.

Table A.6-9 Source Data for Fugitive Dust Emissions - Autos on Paved Roads (52-Acre Landfill Alternative)

Vehicle Type	Number Trips Per Day(a)	Trip Distance Miles per Vehicle (b)	Work Days Per Year (a)	Emission Factor (lb/mile) (c) CO	ROC	NOx	SOx	PM10	Source Category
Autos on Paved Road	242	11	360					0.0005	Paved Road

Notes: (a) Source of Data: POLB 2002 (incremental auto trips).
(b) Source of Data: SCAQMD 1999.
(c) Source of Data: EPA AP-42 (Section 13.2-1 - vehicles on freeway)

Table A.6-10 Estimated Exhaust Emissions - On-Site Operational Equipment (52-Acre Landfill Alternative)

Equipment Type	Daily Emissions (lbs/day)					Annual Emissions (tons/year)				
	CO	TOC	NOx	SOx	PM10	CO	ROC	NOx	SOx	PM10
Cranes (electric)	-	-	-	-	-	-	-	-	-	-
Top Handlers	-	-	-	-	-	-	-	-	-	-
RTG	-	-	-	-	-	-	-	-	-	-
Side Handler	6.95	2.09	29.94	4.13	1.06	1.25	0.38	5.39	0.74	0.19
Yard Hostlers	-	-	-	-	-	-	-	-	-	-
Total Emissions	6.95	2.09	29.94	4.13	1.06	1.25	0.38	5.39	0.74	0.19

Table A.6-11 Estimated Exhaust Emissions - On-Site Operational Vehicles (52-Acre Landfill Alternative)

Vehicle Type	Daily Emissions (lbs/day)					Annual Emissions (tons/year)				
	CO	ROC	NOx	SOx	PM10	CO	ROC	NOx	SOx	PM10
Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vans	3.08	0.32	0.31	0.00	0.02	0.55	0.06	0.06	0.00	0.00
Total Emissions	3.08	0.32	0.31	0.00	0.02	0.55	0.06	0.06	0.00	0.00

Table A.6-12 Estimated Exhaust Emissions - Off-Site Transportation Trucks (52-Acre Landfill Alternative)

Vehicle Type	Daily Emissions (lbs/day)					Annual Emissions (tons/year)				
	CO	ROC	NOx	SOx	PM10	CO	ROC	NOx	SOx	PM10
Trucks	70.43	15.54	433.19	0.00	8.03	12.68	2.80	77.97	0.00	1.44
Total Emissions	70.43	15.51	433.19	0.00	8.03	12.68	2.80	77.97	0.00	1.44

Table A.6-13 Estimated Fugitive Dust Emissions - On-Site Operational Vehicles on Paved Roads (52-Acre Landfill Alternative)

	Daily Emissions (lbs/day)					Annual Emissions (tons/year)				
Vehicle Type	CO	ROC	NOx	SOx	PM10	CO	ROC	NOx	SOx	PM10
Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vans	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.03
Total Emissions	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.03

A.6-14 Estimated Fugitive Dust Emissions - Off-Site Transportation Trucks on Paved Roads (52-Acre Landfill Alternative)

	Daily Emissions (lbs/day)					Annual Emissions (tons/year)				
Vehicle Type	CO	ROC	NOx	SOx	PM10	CO	ROC	NOx	SOx	PM10
Trucks					91.61					16.49
Total Emissions	0.00	0.00	0.00	0.00	91.61	0.00	0.00	0.00	0.00	16.49

Table A.6-15 Estimated Exhaust Emissions - Trains (52-Acre Landfill Alternative)

	Daily Emissions (lbs/day)					Annual Emissions (tons/year)				
Trains	CO	ROC	NOx	SOx	PM10	CO	ROC	NOx	SOx	PM10
Line Haul	2.41	0.86	15.56	0.00	0.53	0.44	0.16	2.84	0.00	0.10
Total Emissions	2.41	0.86	15.56	0.00	0.53	0.44	0.16	2.84	0.00	0.10

Table A.6-16 Estimated Exhaust Emissions - Marine Vessels (52-Acre Landfill Alternative)

Source Type	Daily Emissions (lbs/day)					Annual Emissions (tons/year)				
	CO	ROC	NOx	SOx	PM10	CO	ROC	NOx	SOx	PM10
Container-Cruising (d) (e)						0.014	0.004	0.179	0.101	0.011
Container-Cruising (d)						0.002	0.001	0.026	0.014	0.002
Container-Cruising (d)						0.000	0.000	0.000	0.000	0.000
Container-Cruising (d)						0.019	0.006	0.279	0.138	0.015
Container-Cruising (d)						0.002	0.001	0.027	0.013	0.001
Container-Cruising (d)						0.024	0.007	0.427	0.175	0.020
Container-Cruising (d)						0.064	0.020	1.145	0.468	0.052
Container-Cruising (d)						0.213	0.066	3.819	1.563	0.175
Container-Cruising (d)						0.000	0.000	0.000	0.000	0.000
Container-Cruising (d)						0.036	0.011	0.650	0.266	0.030
Container-Cruising (d)						0.000	0.000	0.000	0.000	0.000
Container-Cruising (d)						0.051	0.016	0.914	0.374	0.042
Daily Emissions (f)	16.86	5.27	302.92	123.95	13.86					
Container-Maneuvering (g) (e)						0.012	0.004	0.209	0.085	0.010
Container-Maneuvering (g)						0.002	0.001	0.030	0.012	0.001
Container-Maneuvering (g)						0.000	0.000	0.000	0.000	0.000
Container-Maneuvering (g)						0.026	0.008	0.445	0.182	0.020
Container-Maneuvering (g)						0.003	0.001	0.047	0.019	0.002
Container-Maneuvering (g)						0.042	0.013	0.720	0.295	0.033
Container-Maneuvering (g)						0.122	0.038	2.109	0.863	0.097
Container-Maneuvering (g)						0.398	0.124	6.866	2.810	0.314
Container-Maneuvering (g)						0.000	0.000	0.000	0.000	0.000
Container-Maneuvering (g)						0.080	0.025	1.384	0.566	0.063
Container-Maneuvering (g)						0.000	0.000	0.000	0.000	0.000
Container-Maneuvering (g)						0.125	0.039	2.156	0.882	0.099
Daily Emissions (f)	41.39	12.94	714.95	292.55	32.72					
Container-Hotelling (h) (e)						0.152	0.162	0.986	0.843	0.047
Container-Hotelling (h)						0.022	0.023	0.141	0.120	0.007
Container-Hotelling (h)						0.000	0.000	0.000	0.000	0.000
Container-Hotelling (h)						0.238	0.255	1.550	1.324	0.074
Container-Hotelling (h)						0.022	0.023	0.141	0.120	0.007
Container-Hotelling (h)						0.260	0.278	1.691	1.445	0.080
Container-Hotelling (h)						0.693	0.742	4.509	3.853	0.214
Container-Hotelling (h)						2.013	2.157	13.105	11.197	0.623
Container-Hotelling (h)						0.000	0.000	0.000	0.000	0.000
Container-Hotelling (h)						0.281	0.301	1.832	1.565	0.087
Container-Hotelling (h)						0.000	0.000	0.000	0.000	0.000
Container-Hotelling (h)						0.411	0.441	2.677	2.288	0.127
Daily Emissions (f)	56.07	60.06	364.98	311.85	17.34					
Tug Boat	1.66	4.99	36.66	6.56	0.76	0.050	0.150	1.100	0.197	0.023
Total Emissions	115.99	83.25	1419.52	734.91	64.67	5.37	4.92	49.16	31.78	2.27

A.6-17 Estimated Exhaust Emissions - Autos (52-Acre Landfill Alternative)

	Daily Emissions (lbs/day)					Annual Emissions (tons/year)				
Vehicles	CO	ROC	NOx	SOx	PM10	CO	ROC	NOx	SOx	PM10
Autos	27.35	2.82	2.76	0.00	0.18	4.92	0.51	0.50	0.00	0.03
Total Emissions	**27.35**	**2.82**	**2.76**	**0.00**	**0.18**	**4.92**	**0.51**	**0.50**	**0.00**	**0.03**

A.6-18 Estimated Fugitive Dust Emissions - Autos on Paved Roads (52-Acre Landfill Alternative)

	Daily Emissions (lbs/day)					Annual Emissions (tons/year)				
Vehicles	CO	ROC	NOx	SOx	PM10	CO	ROC	NOx	SOx	PM10
Autos on Paved Road					1.33					0.24
Total Emissions	**0.00**	**0.00**	**0.00**	**0.00**	**1.33**	**0.00**	**0.00**	**0.00**	**0.00**	**0.24**

A.6-19 Summary of Estimated Operational Emissions (52-Acre Landfill Alternative)

Emissions	Daily Emissions (lbs/day)					Annual Emissions (tons/year)				
	CO	ROC	NOx	SOx	PM10	CO	ROC	NOx	SOx	PM10
Exhaust Emissions - On-Site Operational Equipment	6.95	2.09	29.94	4.13	1.06	1.25	0.38	5.39	0.74	0.19
Exhaust Emissions - On-Site Operational Vehicles	3.08	0.32	0.31	0.00	0.02	0.55	0.06	0.06	0.00	0.00
Exhaust Emissions - Off-Site Transportation Trucks	70.43	15.54	433.19	0.00	8.03	12.68	2.80	77.97	0.00	1.44
Fugitive Dust Emissions - On-Site Vehicles on Paved Roads	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.03
Fugitive Dust Emissions - Off-Site Trucks on Paved Roads	0.00	0.00	0.00	0.00	91.61	0.00	0.00	0.00	0.00	16.49
Exhaust Emissions - Trains	2.41	0.86	15.56	0.00	0.53	0.44	0.16	2.84	0.00	0.10
Exhaust Emissions - Marine Vessels	115.99	83.25	1419.52	734.91	64.67	5.37	4.92	49.16	31.78	2.27
Exhaust Emissions - Automobiles	27.35	2.82	2.76	0.00	0.18	4.92	0.51	0.50	0.00	0.03
Fugitive Dust Emissions - Autos on Paved Roads	0.00	0.00	0.00	0.00	1.33	0.00	0.00	0.00	0.00	0.24
Total Emissions	**226.21**	**104.87**	**1901.27**	**739.05**	**167.58**	**25.22**	**8.81**	**135.92**	**32.52**	**20.80**

A.6-20 Estimated Exhaust Emissions - On-Site Operational Equipment after Mitigation (52-Acre Landfill Alternative)

Equipment Type	Daily Emissions (lbs/day) (a)					Annual Emissions (tons/year)				
	CO	ROC	NOx	SOx	PM10	CO	ROC	NOx	SOx	PM10
Cranes (electric)	-	-	-	-	-	-	-	-	-	-
Top Handlers	-	-	-	-	-	-	-	-	-	-
RTG	-	-	-	-	-	-	-	-	-	-
Side Handler	6.95	2.09	29.94	4.13	1.06	1.25	0.38	5.39	0.74	0.19
Yard Hostlers	-	-	-	-	-	-	-	-	-	-
Total Emissions	**6.95**	**2.09**	**29.94**	**4.13**	**1.06**	**1.25**	**0.38**	**5.39**	**0.74**	**0.19**

A.6-21 Estimated Exhaust Emissions - On-Site Operational Vehicles after Mitigation (52-Acre Landfill Alternative)

Source Type	Daily Emissions (lbs/day) (a)					Annual Emissions (tons/year)				
	CO	ROC	NOx	SOx	PM10	CO	ROC	NOx	SOx	PM10
Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vans	3.08	0.32	0.31	0.00	0.02	0.55	0.06	0.06	0.00	0.00
Total Emissions	**3.08**	**0.32**	**0.31**	**0.00**	**0.02**	**0.55**	**0.06**	**0.06**	**0.00**	**0.00**

A.6-22 Estimated Exhaust Emissions - Off-Site Transportation Vehicles after Mitigation (52-Acre Landfill Alternative)

Source Type	Daily Emissions (lbs/day) (a)					Annual Emissions (tons/year)				
	CO	ROC	NOx	SOx	PM10	CO	ROC	NOx	SOx	PM10
Trucks	70.43	15.54	433.19	0.00	8.03	12.68	2.80	77.97	0.00	1.44
Total Emissions	**70.43**	**15.54**	**433.19**	**0.00**	**8.03**	**12.68**	**2.80**	**77.97**	**0.00**	**1.44**

A.6-23 Estimated Exhaust Emissions - Autos after Mitigation (52-Acre Landfill Alternative)

	Daily Emissions (lbs/day)					Annual Emissions (tons/year)				
Equipment Type	*CO*	*ROC*	*NOx*	*SOx*	*PM10*	*CO*	*ROC*	*NOx*	*SOx*	*PM10*
Autos	26.80	2.76	2.70	0.00	0.17	4.82	0.50	0.49	0.00	0.03
Total Emissions	**26.80**	**2.76**	**2.70**	**0.00**	**0.17**	**4.82**	**0.50**	**0.49**	**0.00**	**0.03**

Notes: (a) ROC, NOx, CO, and PM10 emissions from the autos have been reduced by 2 percent due to the use of the ridesharing and mass transit program (SCAQMD 1999).

A.6-24 Estimated Fugitive Dust Emissions - Autos after Mitigation (52-Acre Landfill Alternative)

	Daily Emissions (lbs/day) (a)					Annual Emissions (tons/year)				
Construction Activity	*CO*	*ROC*	*NOx*	*SOx*	*PM10*	*CO*	*ROC*	*NOx*	*SOx*	*PM10*
Autos on Paved Road					1.30					0.23
Total Emissions	**0.00**	**0.00**	**0.00**	**0.00**	**1.30**	**0.00**	**0.00**	**0.00**	**0.00**	**0.23**

Notes: (a) PM10 emissions from the autos have been reduced by 2 percent due to the use of the ridesharing and mass transit program (SCAQMD 1999).

A.6-25 Summary of Estimated Operational Emissions after Mitigation (52-Acre Landfill Alternative)

	Daily Emissions (lbs/day)					Annual Emissions (tons/year)				
Emissions	*CO*	*ROC*	*NOx*	*SOx*	*PM10*	*CO*	*ROC*	*NOx*	*SOx*	*PM10*
Exhaust Emissions - On-Site Operational Equipment	6.95	2.09	29.94	4.13	1.06	1.25	0.38	5.39	0.74	0.19
Exhaust Emissions - On-Site Operational Vehicles	3.08	0.32	0.31	0.00	0.02	0.55	0.06	0.06	0.00	0.00
Exhaust Emissions - Off-Site Transportation Trucks	70.43	15.54	433.19	0.00	8.03	12.68	2.80	77.97	0.00	1.44
Fugitive Dust Emissions - On-Site Vehicles on Paved Roads	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.03
Fugitive Dust Emissions - Off-Site Trucks on Paved Roads	0.00	0.00	0.00	0.00	91.61	0.00	0.00	0.00	0.00	16.49
Exhaust Emissions - Trains	2.41	0.86	15.56	0.00	0.53	0.25	0.09	1.62	0.00	0.06
Exhaust Emissions - Marine Vessels	115.99	83.25	1419.52	734.91	64.67	5.37	4.92	49.16	31.78	2.27
Exhaust Emissions - Automobiles	26.80	2.76	2.70	0.00	0.17	4.82	0.50	0.49	0.00	0.03
Fugitive Dust Emissions - Autos on Paved Roads	0.00	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00	0.23
Total Emissions	**225.66**	**104.81**	**1901.22**	**739.05**	**167.55**	**24.93**	**8.73**	**134.69**	**32.52**	**20.75**

Predicted Risks - 75-Acre Landfill Alternative (HRA Update, 2004)

Risk Category	Pollutant	UTM East (m)	UTM North (m)	Receptor ID	Max. Annual Concentration (ug/m^3)		Health Values	Predicted Health Risks
FN							Unit Risk $(ug/m^3)^{-1}$	Cancer
Cancer Effect	PM10	388466.00	3736711	68	2.4150E-02		3.00E-04	7.245E-06
							Chronic REL	Chronic HI
Chronic Effect	PM10	388466.00	3736711	68	2.4150E-02		5	4.830E-03
CS								
Cancer Effect	PM10	388932.47	3736399.75	20	1.5300E-02		3.00E-04	4.590E-06
							Chronic REL	Chronic HI
Chronic Effect	PM10	388932.47	3736399.75	20	1.5300E-02		5	3.060E-03
HF								
Cancer Effect	PM10	389686.00	3735452	1	1.7220E-02	1.40E-01	3.00E-04	7.232E-07
							Chronic REL	Chronic HI
Chronic Effect	PM10	389686.00	3735452	1	1.7220E-02		5	3.444E-03

Predicted Risks - 52-Acre Landfill Alternative (HRA Update, 2004)

Risk Category	Pollutant	UTM East (m)	UTM North (m)	Receptor ID	Max. Annual Concentration (ug/m^3)		Health Values	Predicted Health Risks
FN							Unit Risk $(ug/m^3)^{-1}$	Cancer
Cancer Effect	PM10	388466.00	3736711	68	2.419E-02		3.00E-04	7.257E-06
							Chronic REL	Chronic HI
Chronic Effect	PM10	388466.00	3736711	68	2.419E-02		5	4.838E-03
CS								
Cancer Effect	PM10	388932.50	3736399.75	20	1.465E-02		3.00E-04	4.395E-06
							Chronic REL	Chronic HI
Chronic Effect	PM10	388932.47	3736399.75	20	1.465E-02		5	2.930E-03
HF								
Cancer Effect	PM10	389686.00	3735452	1	1.688E-02	1.40E-01	3.00E-04	7.090E-07
							Chronic REL	Chronic HI
Chronic Effect	PM10	389686.00	3735452	1	1.688E-02		5	3.376E-03

Predicted Risks -115-Acre Landfill Alternative (HRA Addendum, 2004)

Risk Category	Pollutant	UTM East (m)	UTM North (m)	Receptor ID	Max. Annual Concentration (ug/m^3)		Health Values	Predicted Health Risks
FN							Unit Risk $(ug/m^3)^{-1}$	Cancer
Cancer Effect	PM10	388466.00	3736711	68	2.407E-02		3.00E-04	7.22E-06
							Chronic REL	Chronic HI
Chronic Effect	PM10	388466.00	3736711	68	2.407E-02		5	0.00481
CS								
Cancer Effect	PM10	388932.50	3736399.75	20	1.699E-02		3.00E-04	5.10E-06
							Chronic REL	Chronic HI
Chronic Effect	PM10	388932.47	3736399.75	20	1.699E-02		5	0.00340
HF								
Cancer Effect	PM10	389686.00	3735452	1	1.842E-02	1.40E-01	3.00E-04	7.74E-07
							Chronic REL	Chronic HI
Chronic Effect	PM10	389686.00	3735452	1	1.842E-02		5	0.00368

Predicted Combined Risks - the 52-Acre Landfill Alternative (HRA Update, 2004)

Risk Category	Pollutant	UTM East (m)	UTM North (m)	Receptor ID on I710 Modeling	Max. Annual Concentration (ug/m^3)	Health Values	Predicted Health Risks	Max. Annual Concentration (ug/m^3)	Health Values	Predicted Health Risks	Combined Risk
		The Highest Max. Rec. Locations (All On-Site Sources)			All On-Site Sources Contribution	Unit Risk $(ug/m^3)^{-1}$	Cancer	I-710 Sources Contribution	Unit Risk $(ug/m^3)^{-1}$	Cancer	Cancer
Cancer Effect	PM10	388466.00	3736711	25	2.419E-02	3.00E-04	7.26E-06	0.000E+00	3.00E-04	0.00E+00	7.26E-06
Cancer Effect	PM10	388465.00	3736808	26	2.418E-02	3.00E-04	7.25E-06	1.000E-04	3.00E-04	3.00E-08	7.28E-06
Cancer Effect	PM10	388466.00	3736808	27	2.413E-02	3.00E-04	7.24E-06	1.000E-04	3.00E-04	3.00E-08	7.27E-06
Cancer Effect	PM10	388466.00	3736904	28	2.361E-02	3.00E-04	7.08E-06	1.000E-04	3.00E-04	3.00E-08	7.11E-06
Cancer Effect	PM10	388466.00	3736904	29	2.361E-02	3.00E-04	7.08E-06	1.000E-04	3.00E-04	3.00E-08	7.11E-06
Cancer Effect	PM10	388471.00	3737389	30	2.349E-02	3.00E-04	7.05E-06	3.000E-04	3.00E-04	9.00E-08	7.14E-06
Cancer Effect	PM10	388471.00	3737389	31	2.349E-02	3.00E-04	7.05E-06	3.000E-04	3.00E-04	9.00E-08	7.14E-06
Cancer Effect	PM10	388472.00	3737486	32	2.342E-02	3.00E-04	7.03E-06	3.000E-04	3.00E-04	9.00E-08	7.12E-06
Cancer Effect	PM10	388472.00	3737486	33	2.342E-02	3.00E-04	7.03E-06	3.000E-04	3.00E-04	9.00E-08	7.12E-06
Cancer Effect	PM10	388524.00	3736629	34	2.340E-02	3.00E-04	7.02E-06	0.000E+00	3.00E-04	0.00E+00	7.02E-06
						Chronic REL	Chronic HI		Chronic REL	Chronic HI	Chronic HI
Chronic Effect	PM10	388466.00	3736711	25	2.419E-02	5	0.00484	0.000E+00	5	0.00000	4.84E-03
Chronic Effect	PM10	388465.00	3736808	26	2.418E-02	5	0.00484	1.000E-04	5	0.00002	4.86E-03
Chronic Effect	PM10	388466.00	3736808	27	2.413E-02	5	0.00483	1.000E-04	5	0.00002	4.85E-03
Chronic Effect	PM10	388466.00	3736904	28	2.361E-02	5	0.00472	1.000E-04	5	0.00002	4.74E-03
Chronic Effect	PM10	388466.00	3736904	29	2.361E-02	5	0.00472	1.000E-04	5	0.00002	4.74E-03
Chronic Effect	PM10	388471.00	3737389	30	2.349E-02	5	0.00470	3.000E-04	5	0.00006	4.76E-03
Chronic Effect	PM10	388471.00	3737389	31	2.349E-02	5	0.00470	3.000E-04	5	0.00006	4.76E-03
Chronic Effect	PM10	388472.00	3737486	32	2.342E-02	5	0.00468	3.000E-04	5	0.00006	4.74E-03
Chronic Effect	PM10	388472.00	3737486	33	2.342E-02	5	0.00468	3.000E-04	5	0.00006	4.74E-03
Chronic Effect	PM10	388524.00	3736629	34	2.340E-02	5	0.00468	0.000E+00	5	0.00000	4.68E-03

Predicted Risks - I-710 Segment under the 115-Acre Landfill Alternative (HRA Update, 2004)

Risk Category	Pollutant	UTM East (m)	UTM North (m)	Receptor ID	Max. Annual Concentration (ug/m^3)	Health Values	Predicted Health Risks
					Residential	Unit Risk $(ug/m^3)^{-1}$	Cancer
Cancer Effect	PM10	388206.00	3740320	4	9.100E-03	3.00E-04	2.73E-06
						Chronic REL	Chronic HI
Chronic Effect	PM10	388206.00	3740320	4	9.100E-03	5	0.00182

Predicted Risks - I-710 Segment for the 75-Acre Landfill Alternative (HRA Update, 2004)

Risk Category	Pollutant	UTM East (m)	UTM North (m)	Receptor ID	Max. Annual Concentration (ug/m^3)	Health Values	Predicted Health Risks
					Residential	Unit Risk $(ug/m^3)^{-1}$	Cancer
Cancer Effect	PM10	388206.00	3740320	4	1.700E-02	3.00E-04	5.10E-06
						Chronic REL	Chronic HI
Chronic Effect	PM10	388206.00	3740320	4	1.700E-02	5	0.00340

Predicted Risks - I-710 Segment for the 52 Acre Landfill Alternative (HRA Update, 2004)

Risk Category	Pollutant	UTM East (m)	UTM North (m)	Receptor ID	Max. Annual Concentration (ug/m^3)	Health Values	Predicted Health Risks
					Residential	Unit Risk $(ug/m^3)^{-1}$	Cancer
Cancer Effect	PM10	388206.00	3740320	4	1.750E-02	3.00E-04	5.25E-06
						Chronic REL	Chronic HI
Chronic Effect	PM10	388206.00	3740320	4	1.750E-02	5	0.00350

Pier J South HRA - Operational TAC Emission Calculations (75-Acre Landfill Alternative)
Modeling Category A: Marine Vessels Hotelling

Table B.2-1 Source Data and TAC Emissions - Marine Vessels Hotelling

Source Type	Ships DWT (a)	Design Categories (a)	Percentage of Ships (%) (b)	Ship Calls	Visit Time Per Call (hour) (e)	Ship Calls Per Year (c)	Emission Factors (lb/hour) (a) PM	PM10 (d)	Modeling Source Emissions Annual PM10 (ton/year)	Modeling Source Emissions Hourly PM10 (g/s)	Modeling Source Emissions Annual PM10 (g/s)	Each Modeling Source Emissions (g) Hourly PM10 (g/s)	Each Modeling Source Emissions (g) Annual PM10 (g/s)
Average Annual Emissions													
Container-Hotelling (e)	<10,300	600-800	3.704%		51.08	3.222	8.60E-01	8.26E-01	6.79E-02				
Container-Hotelling	10,300-15,800	600-800	0.529%		51.08	0.460	8.60E-01	8.26E-01	9.71E-03				
Container-Hotelling	15,800-22,100	800-1000	0.000%		51.08	0.000	8.60E-01	8.26E-01	0.00E+00				
Container-Hotelling	22,100-29,100	1000-1200	5.820%		51.08	5.063	8.60E-01	8.26E-01	1.07E-01				
Container-Hotelling	29,100-36,700	1200-1400	0.529%		51.08	0.460	8.60E-01	8.26E-01	9.71E-03				
Container-Hotelling	36,700-44,800	1400-1600	6.349%		51.08	5.524	8.60E-01	8.26E-01	1.16E-01				
Container-Hotelling	44,800-53,500	1600-1800	16.931%		51.08	14.730	8.60E-01	8.26E-01	3.11E-01				
Container-Hotelling	53,500-62,700	1800-2000	49.206%		51.08	42.810	8.60E-01	8.26E-01	9.03E-01				
Container-Hotelling	72,300-82,400	2200-2400	0.000%		51.08	0.000	8.60E-01	8.26E-01	0.00E+00				
Container-Hotelling	82,400-93,000	2400-2600	6.878%		51.08	5.984	8.60E-01	8.26E-01	1.26E-01				
Container-Hotelling	93,000-103,900	2600-2800	0.000%		51.08	0.000	8.60E-01	8.26E-01	0.00E+00				
Container-Hotelling	103,900-115,200	2800-3000	10.063%		51.08	8.746	8.60E-01	8.26E-01	1.84E-01				
Total			100.000%			87							
								Average Total	1.83E+00		5.28E-02		5.28E-02
Peak Hourly Emissions (f)				1	1		8.60E-01	8.26E-01		1.04E-01		1.04E-01	
								Total		1.04E-01	5.28E-02	1.04E-01	5.28E-02

Notes: (a) Source of Data: ARCADIS 1999. Emission factors for 2010 are used.

(b) Percentages of ships in each of the design categories were derived based on the 1999 shipping data provided by the Port of Long Beach (POLB 2001).

(c) Annual ship calls for each of the design categories were estimated based on the percentages of the ships and the total annual incremental container ship calls.

(d) The PM10 weight fraction of PM is (CARB 2000). 0.96

(e) The data for a container within 10,300-15,800 DWT listed in the ARCADIS report are used for a container less than 10,300 DWT.

(f) Peak hourly emissions were conservatively estimated based on one container hotelling during a peak hour.

(g) The number of modeling sources for this category is: 1

Modeling Category B: Marine Vessels Maneuvering

Table B.2-2 Source Data and TAC Emissions - Marine Vessels Maneuvering

Source Type	Ships DWT (a)	Design Categories (a)	Percentage of Ships (%) (b)	Ship Calls	Energy Used (kW/hr/call) (a)	Visit Time Per Call (hour) (e)	Ship Calls Per Year (c)	Emission Factors (g/kWh) PM	PM10 (d)	Modeling Source Emissions PM10 (ton/year)	Modeling Source Emissions Hourly PM10 (g/s)	Modeling Source Emissions Annual PM10 (g/s)	Each Modeling Source Emissions (e) Hourly PM10 (g/s)	Each Modeling Source Emissions (e) Annual PM10 (g/s)
Average Annual Emissions														
Container-maneuvering (f) (g)	<10,300	600-800	3.70%		2963		3.222	1.37E+00	1.32E+00	1.38E-02				
Container-maneuvering (f)	10,300-15,800	600-800	0.53%		2963		0.460	1.37E+00	1.32E+00	1.98E-03				
Container-maneuvering (f)	15,800-22,100	800-1000	0.00%		3929		0.000	1.37E+00	1.32E+00	0.00E+00				
Container-maneuvering (f)	22,100-29,100	1000-1200	5.82%		4024		5.083	1.37E+00	1.32E+00	2.95E-02				
Container-maneuvering (f)	29,100-36,700	1200-1400	0.53%		4640		0.460	1.37E+00	1.32E+00	3.10E-03				
Container-maneuvering (f)	36,700-44,800	1400-1600	6.35%		5968		5.524	1.37E+00	1.32E+00	4.78E-02				
Container-maneuvering (f)	44,800-53,500	1600-1800	16.93%		6553		14.730	1.37E+00	1.32E+00	1.40E-01				
Container-maneuvering (f)	53,500-62,700	1800-2000	49.21%		7341		42.810	1.37E+00	1.32E+00	4.56E-01				
Container-maneuvering (f)	72,300-82,400	2200-2400	0.00%		10335		0.000	1.37E+00	1.32E+00	0.00E+00				
Container-maneuvering (f)	82,400-93,000	2400-2600	6.88%		10584		5.984	1.37E+00	1.32E+00	9.18E-02				
Container-maneuvering (f)	93,000-103,900	2600-2800	0.00%		9735		0.000	1.37E+00	1.32E+00	0.00E+00				
Container-maneuvering (f)	103,900-115,200	2800-3000	10.05%		11284		8.745	1.37E+00	1.32E+00	1.43E-01				
Total			100.00%				87			9.27E-01		2.67E-02		8.69E-03
Peak Hour Emissions (h)														
Container-maneuvering (f)				1	11284			1.37E+00	1.32E+00		4.12E+00		1.37E+00	
				Ship Calls	Fuel Usage (gal/hr) (i)	Visit Time Per Call (hour) (j)	Ship Calls Per Year (a)	Emission Factors (lb/1000gal) (j) PM	PM10 (d)					
Average Annual Emissions														
Tug Boat					87.5	1.0	87	9.00E+00	8.64	3.29E-02		9.46E-04		3.15E-04
Peak Hour Emissions (h)														
Tug Boat				1	87.5	1.0		9.00E+00	8.64		9.53E-02		3.18E-02	
										Total	4.22E+00	2.76E-02	1.41E+00	9.20E-03

Notes: (a) Source of Data: ARCADIS 1999. Emission factors for 2010 are used.

(b) The percentages of ships in each of the design categories were derived based on the 1999 shipping data provided by the Port of Long Beach (POLB 2001).

(c) Annual ship calls for each of the design categories were estimated based on the percentages of ships in each category and the total annual incremental container ship calls.

(d) The PM10 weight fraction of PM is (CARB 2000): 0.96

(e) Number of the modeling sources for this category is: 3

(f) The speed for a container during maneuvering is 5 knots.

(g) The data for a container within 10,300-15,800 DWT listed in the ARCADIS report are used for a container less than 10,300 DWT.

(h) Peak hourly emissions were estimated based on one ship (103,900-115,200 DWT) call per day.

(i) Source of Data: 1995 Lloyd's shipping report.

(j) Source of Data: Acurex 1996. Unit of emission factors for tug boats is lb/1000gal.

Modeling Category C: On-site Operational Activities

Table B.2-3 Source Data and TAC Emissions - On-site Operational Equipment

Equipment Type (a)	Number Active(a)	Rated HP (b)	Load Factor (b)	Work Hrs Per Day (a)	Work Days Per Year (a)	Emission Factors (g/hr) PM (c)	PM10 (d)	Source Category	Modeling Source Emissions Annual PM10 (ton/year)	Modeling Source Emissions Hourly (e) PM10 (g/s)	Modeling Source Emissions Annual PM10 (g/s)
Cranes (electric)	--	--	--	8	360		-	-	-		
Top Handlers	0	330	1.000	6	360		0.00E+00	Large CI engine	0.000	0.00E+00	0.00E+00
RTG	0	250	1.000	7	360		0.00E+00	Large CI engine	0.000	0.00E+00	0.00E+00
Side Handler	4	225	1.000	6	360	21.25	2.07E+01	Large CI engine	0.198	2.30E-02	5.68E-03
Yard Hostlers	0	175	1.000	4	360		0.00E+00	Large CI engine	0.000	0.00E+00	0.00E+00
								Total	1.98E-01	2.30E-02	5.68E-03

Notes: (a) Source of Data: POLB 2002. All incremental equipment is diesel-fueled, unless otherwise indicated.

(b) Equipment horse power ratings and operating hours were provided by the POLB (2000). The load factor of 1 is used.

(c) Emission factors for PM (2011) provided by the CARB (CARB 2002).

(d) The PM10 weight fraction of PM is (CARB 2000): 0.976

(e) The peak hourly emissions were conservatively assumed that all the equipment would be concurrently used in a peak hour.

Table B.2-4 Source Data and TAC Emissions - On-site Operational Trucks

Vehicle Type (a)	Number of Trucks Per Day(a)	VMT Traveling Per Hour (b)	Work Hrs Per Day (a)	Work Days Per Year (a)	Emission Factors (g/mile) (c) PM10	Source Category	Modeling Source Emissions Annual PM10 (ton/year)	Modeling Source Emissions Hourly (d) PM10 (g/s)	Modeling Source Emissions Annual PM10 (g/s)
Trucks (on-site)	0	10		360	0.401	HHDT	0.00E+00	0.00E+00	0.00E+00
	No. of Trucks Per Day (a)	On-site Truck Traveling Distance (mile)							
Trucks (off-site) (d)	568	2		360	0.401	HHDT	1.81E-01	1.27E-02	5.20E-03
	No. of Trucks Per Day (a)	Idling Time (min) (b)			Idling Emission factors g/hr	g/min			
Trucks (on-site)	0	15		360	1.448	0.0241 HHDT	0.00E+00	0.00E+00	0.00E+00
Trucks (off-site)	568	15		360	1.448	0.0241 HHDT	8.16E-02	5.71E-03	2.35E-03
						Total	2.62E-01	1.84E-02	7.55E-03

Notes: (a) Source of Data: The data for on-site trucks were from POLB 2002, and the data for off-site truck trips were from MMA 2002. One truck will generate 2 trips, and 1136 trips were calculated to be 568 trucks.

(b) Source of Data: Starcrest LLC 2003. The average truck traveling speed on the site is 10 miles per hour and the average idling time for a truck is 15 minutes.

(c) Source of Data: EMFAC2002 (Los Angeles County, Temperature 75oF and Humidity 40%)

(d) For peak hour emissions, all on-site trucks were assumed to be used concurrently and 10 percent of the daily off-site trucks to be used in a peak hour.

Table B.2-5 Source Data and TAC Emissions - Trains

Trains	No. of Trips Per Day(a)	Miles Per Trip (b)	Diesel Fuel Usage (gal/mile) (c)	No. of Trains Per Year (a)	Emission Factor (g/gal) (d) PM	PM10 (e)	Source Category	Modeling Source Emissions Annual PM10 (ton/year)	Modeling Source Emissions Hourly (f) PM10 (g/s)	Modeling Source Emissions Annual PM10 (g/s)
Trains (Line Haul)	1	1	2.69	291.2	5.7	5.563	Line Haul	4.80E-03	4.16E-03	1.38E-04
							Total	4.80E-03	4.16E-03	1.38E-04

Notes: (a) Source of Data: MMA 2002 (incremental train trips). A full train consists of 25-cars.

(b) The approximately train traveling distance within Pier J South.

(c) Source of Data: EPA 2001. The fuel usage represents the combined diesel usage taking into account train idling and traveling activities (EPA 2003).

(d) Source of Data: EPA 1997 (emission factor for 2011).

(e) The PM10 weight fraction of PM is (CARB 2002): 0.976

(f) Peak hour emissions were estimated assuming that one train would be used during a peak hour.

Table B.2-6 Estimated Diesel Exhaust PM10 Emissions

	Modeling Source Emissions		*Each Modeling Source Emissions (b)*	
	Hourly (a) PM10 (g/s)	*Annual PM10 (g/s)*	*Hourly PM10 (g/s)*	*Annual PM10 (g/s)*
On-site Operational Equipment	2.30E-02	5.68E-03	3.29E-03	8.12E-04
On-site Trucks	1.84E-02	7.55E-03	2.62E-03	1.08E-03
Trains (within Pier J South)	4.16E-03	1.38E-04	5.94E-04	1.97E-05
Total	**4.56E-02**	**1.34E-02**	**6.51E-03**	**1.91E-03**

Note: (a) Peak hourly emissions were estimated assuming that all of the operational activities would occur in a peak hour.

(b) The number of the modeling sources for this category is: 7

Table B.2-7 Source Data and TAC Emissions - Transportation Trucks

Vehicle Type (a)	Number Trips Per Day(a)	Trip Distance Miles per Trip (b)	Work Days Per Year	Emission Factor (g/mile) (c) HHDT PM10	Modeling Source Emissions Annual PM10 (ton/year)	Modeling Source Emissions Hourly (e) PM10 (g/s)	Modeling Source Emissions Annual PM10 (g/s)
Trucks (HHDT)	1136	2.8	360	0.19	2.36E-01	1.65E-02	6.78E-03
				Total	2.36E-01	1.65E-02	6.78E-03

Notes: (a) Source of Data: MMA 2002 (the incremental truck trips).

(b) The approximately vehicle traveling distance within the Port of Long Beach.

(c) Source of Data: EMFAC2002. The truck traveling speed is 30 miles per hour (Star Crest LLC).

(e) The peak hour truck trips were conservative assumed to be 10% of daily trips.

Table B.2-8 Source Data and TAC Emissions - Trains

Trains	No. of Trips Per Day(a)	Miles Per Trip (b)	Diesel Fuel Usage (gal/mile) (c)	No. of Trains Per Year (a)	Emission Factor (g/gal) (d) PM	PM10 (e)	Modeling Source Emissions Annual PM10 (ton/year)	Modeling Source Emissions Hourly (f) PM10 (g/s)	Modeling Source Emissions Annual PM10 (g/s)
Trains (Line Haul)	1	2.5	2.69	291.2	5.7	5.563	1.20E-02	1.04E-02	3.45E-04
						Total	1.20E-02	1.04E-02	3.45E-04

Notes: (a) Source of Data: MMA 2002 (incremental train trips).

(b) The approximately train traveling distance for this railroad segment (Starcrest LLC, 2004).

(c) Source of Data: EPA 2001. The fuel usage represents the combined diesel usage taking into account train idling and traveling activities (EPA 2003).

(d) Source of Data: EPA 1997 (Emission factor for 2011).

(e) The PM10 weight fraction of PM is (CARB 2002): 0.976

(f) Peak hour emission were estimated assuming that one train would be operated during a peak hour.

Table B.2-9 Estimated Diesel Exhaust PM10 Emissions - D-1

	Modeling Source Emissions		*Each Modeling Source Emissions (b)*	
	Hourly (a)	*Annual*	*Hourly*	*Annual*
	PM10 (g/s)	*PM10 (g/s)*	*PM10 (g/s)*	*PM10 (g/s)*
Transportation Trucks	1.65E-02	6.78E-03	7.85E-04	3.23E-04
Trains	1.04E-02	3.45E-04	4.95E-04	1.65E-05
Total	**2.69E-02**	**7.12E-03**	**1.28E-03**	**3.39E-04**

(b) The number of the modeling sources for this category is: 21

Modeling Category D-2: Transportation Activities

Table B.2-10 Source Data and TAC Emissions - Transportation Trucks

Vehicle Type (a)	Number Trips Per Day(a)	Trip Distance Miles per Trip (b)	Work Days Per Year	Emission Factor (g/mile) (c) PM10	PM10 (d)	Modeling Source Emissions Annual PM10 (ton/year)	Modeling Source Emissions Hourly (e) PM10 (g/s)	Modeling Source Emissions Annual PM10 (g/s)
Trucks (HHDT)	0	0.0				0.00E+00	0.00E+00	0.00E+00
					Total	**0.00E+00**	**0.00E+00**	**0.00E+00**

Table B.2-11 Source Data and TAC Emissions - Trains

Trains	No. of Trips Per Day(a)	Miles Per Trip (b)	Diesel Fuel Usage (gal/mile) (c)	No. of Trains Per Year (a)	Emission Factor (g/gal) (d) PM	PM10 (e)	Modeling Source Emissions Annual PM10 (ton/year)	Modeling Source Emissions Hourly (f) PM10 (g/s)	Modeling Source Emissions Annual PM10 (g/s)
Trains (Line Haul)	1	0.8	2.69	291.2	5.7	5.583	3.60E-03	3.12E-03	1.04E-04
						Total	**3.60E-03**	**3.12E-03**	**1.04E-04**

Notes: (a) Source of Data: MMA 2002 (incremental train trips).

(b) The approximately train traveling distance for this railroad segment.

(c) Source of Data: EPA 2001. The fuel usage represents the combined diesel usage taking into account train idling and traveling activities (EPA 2003)

(d) Source of Data: EPA 1997 (emission factor for 2011).

(e) The PM10 weight fraction of PM is (CARB 2000): 0.976

(f) Peak hour emission were estimated assuming that one train would be operated during a peak hour.

Table B.2-12 Estimated Diesel Exhaust PM10 Emissions - D-2

	Modeling Source Emissions		*Each Modeling Source Emissions (a)*	
	Hourly	*Annual*	*Hourly*	*Annual*
	PM10 (g/s)	*PM10 (g/s)*	*PM10 (g/s)*	*PM10 (g/s)*
Transportation Trucks	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Trains	3.12E-03	1.04E-04	7.79E-04	2.59E-05
Total	**3.12E-03**	**1.04E-04**	**7.79E-04**	**2.59E-05**

Note (a) The number of the modeling sources for this category is: 4

B.2-13 Summary of Estimated TAC Emissions - 75-Acre Landfill Alternative

TACs	Category A (a)		Category B (a)		Category C (a)		Category D (a) (b)					Total Emissions (g/s)
							D-1		D-2		Total	
	Each Model Source (g/s)	Total (g/s)	Each Model Source (g/s)	Total (g/s)	Each Model Source (g/s)	Total (g/s)	Each Model Source (g/s)	Subtotal (g/s)	Each Model Source (g/s)	Subtotal (g/s)	(g/s)	
Number of Sources in this Source Category	1		3		7		21		4			
Hourly Emission Rates (g/s)												
DIESEL EXHAUST PM10	1.04E-01	1.04E-01	1.41E+00	4.22E+00	6.51E-03	4.56E-02	1.28E-03	2.69E-02	7.79E-04	3.12E-03	3.00E-02	4.40E+00
Annual Emission Rates (g/s)												
DIESEL EXHAUST PM10	5.28E-02	5.28E-02	9.20E-03	2.76E-02	1.91E-03	1.34E-02	3.39E-04	7.12E-03	2.59E-05	1.04E-04	7.22E-03	1.01E-01

Note: (a) For diesel-powered IC engines and vehicles, risks are calculated based on diesel exhaust PM10, as instructed by the CARB (2002), as the OEHHA risk factor for diesel exhaust PM10 covers risks from all other constituents.

(b) Source Category D consists of two source groups, D-1 and D-2.

Pier J South HRA - Operational TAC Emission Calculations (52-Acre Landfill Alternative)
Modeling Category A: Marine Vessels Hotelling

Table B.3-1 Source Data and TAC Emissions - Marine Vessels Hotelling

Source Type	Ships DWT (a)	Design Categories (a)	Percentage of Ships (%) (b)	Ship Calls	Visit Time Per Call (hour) (a)	Ship Calls Per Year (c)	Emission Factors (lb/hour) (a) PM	PM10 (d)	Modeling Source Emissions Annual PM10 (ton/year)	Modeling Source Emissions Hourly PM10 (g/s)	Modeling Source Emissions Annual PM10 (g/s)	Each Modeling Source Emissions (g) Hourly PM10 (g/s)	Each Modeling Source Emissions (g) Annual PM10 (g/s)
Average Annual Emissions													
Container-Hotelling (e)	<10,300	600-800	3.704%		51.08	2.222	8.60E-01	8.26E-01	4.69E-02				
Container-Hotelling	10,300-15,800	600-800	0.529%		51.08	0.317	8.60E-01	8.26E-01	6.69E-03				
Container-Hotelling	15,800-22,100	800-1000	0.000%		51.08	0.000	8.60E-01	8.26E-01	0.00E+00				
Container-Hotelling	22,100-29,100	1000-1200	5.820%		51.08	3.492	8.60E-01	8.26E-01	7.36E-02				
Container-Hotelling	29,100-36,700	1200-1400	0.529%		51.08	0.317	8.60E-01	8.26E-01	6.69E-03				
Container-Hotelling	36,700-44,800	1400-1600	6.349%		51.08	3.810	8.60E-01	8.26E-01	8.03E-02				
Container-Hotelling	44,800-53,500	1600-1800	16.931%		51.08	10.159	8.60E-01	8.26E-01	2.14E-01				
Container-Hotelling	53,500-62,700	1800-2000	49.206%		51.08	29.524	8.60E-01	8.26E-01	6.23E-01				
Container-Hotelling	72,300-82,400	2200-2400	0.000%		51.08	0.000	8.60E-01	8.26E-01	0.00E+00				
Container-Hotelling	82,400-93,000	2400-2600	6.878%		51.08	4.127	8.60E-01	8.26E-01	8.70E-02				
Container-Hotelling	93,000-103,900	2600-2800	0.000%		51.08	0.000	8.60E-01	8.26E-01	0.00E+00				
Container-Hotelling	103,900-115,200	2800-3000	10.053%		51.08	6.032	8.60E-01	8.26E-01	1.27E-01				
Total			100.000%			60							
								Average Total	1.27E+00		3.64E-02		3.64E-02
Peak Hourly Emissions (f)				1	1		8.60E-01	8.26E-01		1.04E-01		1.04E-01	
								Total		1.04E-01	3.64E-02	1.04E-01	3.64E-02

Notes (a) Source of Data: ARCADIS 1999. Emission factors for 2000 are used.

(b) Percentages of ships in each of the design categories were derived based on the 1999 shipping data provided by the Port of Long Beach (POLB 2001).

(c) Annual ship calls for each of the design categories were estimated based on the percentages of the ships and the total annual incremental container ship calls.

(d) The PM10 weight fraction of PM is (CARB 2000): 0.96

(e) The data for a container within 10,300-15,800 DWT listed in the ARCADIS report are used for a container less than 10,300 DWT.

(f) Peak hourly emissions were conservatively estimated based on one container hotelling during a peak hour.

(g) The number of modeling sources for this category is: 1

Modeling Category B: Marine Vessels Maneuvering

Table B.3-2 Source Data and TAC Emissions - Marine Vessels Maneuvering

Source Type	Ships DWT (a)	Design Categories (a)	Percentage of Ships (%) (b)	Ship Calls	Energy Used (kWhr/call) (a)	Visit Time Per Call (hour) (a)	Ship Calls Per Year (c)	Emission Factors (g/kWh) PM	PM10 (d)	Modeling Source Emissions PM10 (ton/year)	Modeling Source Emissions Hourly PM10 (g/s)	Modeling Source Emissions Annual PM10 (g/s)	Each Modeling Source Emissions (e) Hourly PM10 (g/s)	Each Modeling Source Emissions (e) Annual PM10 (g/s)
Average Annual Emissions														
Container-maneuvering (f) (g)	<10,300	600-800	3.70%		2983		2.222	1.37E+00	1.32E+00	9.55E-03				
Container-maneuvering (f)	10,300-15,800	800-800	0.53%		2963		0.317	1.37E+00	1.32E+00	1.36E-03				
Container-maneuvering (f)	15,800-22,100	800-1000	0.00%		3929		0.000	1.37E+00	1.32E+00	0.00E+00				
Container-maneuvering (f)	22,100-29,100	1000-1200	5.82%		4024		3.492	1.37E+00	1.32E+00	2.04E-02				
Container-maneuvering (f)	29,100-36,700	1200-1400	0.53%		4640		0.317	1.37E+00	1.32E+00	2.14E-03				
Container-maneuvering (f)	36,700-44,800	1400-1600	6.35%		5968		3.810	1.37E+00	1.32E+00	3.30E-02				
Container-maneuvering (f)	44,800-53,500	1600-1800	16.93%		6553		10.159	1.37E+00	1.32E+00	9.65E-02				
Container-maneuvering (f)	53,500-62,700	1800-2000	49.21%		7341		29.524	1.37E+00	1.32E+00	3.14E-01				
Container-maneuvering (f)	72,300-82,400	2200-2400	0.00%		10335		0.000	1.37E+00	1.32E+00	0.00E+00				
Container-maneuvering (f)	82,400-93,000	2400-2600	6.88%		10584		4.127	1.37E+00	1.32E+00	6.33E-02				
Container-maneuvering (f)	93,000-103,900	2600-2800	0.00%		9735		0.000	1.37E+00	1.32E+00	0.00E+00				
Container-maneuvering (f)	103,900-115,200	2800-3000	10.05%		11284		6.032	1.37E+00	1.32E+00	9.87E-02				
Total			100.00%				60			6.39E-01		1.84E-02		6.13E-03
Peak Hour Emissions (h)														
Container-maneuvering (f)				1	11284			1.37E+00	1.32E+00		4.12E+00		1.37E+00	
				Ship Calls	Fuel Usage (gal/hr) (i)	Visit Time Per Call (hour) (j)	Ship Calls Per Year (a)	Emission Factors (lb/1000gal) (j) PM	PM10 (d)					
Average Annual Emissions														
Tug Boat					87.5	1.0	60	9.00E+00	8.64	2.27E-02		6.52E-04		2.17E-04
Peak Hour Emissions (h)														
Tug Boat				1	87.5	1.0		9.00E+00	8.64		9.53E-02		3.18E-02	
										Total	4.22E+00	1.90E-02	1.41E+00	6.35E-03

Notes:
(a) Source of Data: ARCADIS 1999. Emission factors for 2000 are used.
(b) The percentages of ships in each of the design categories were derived based on the 1999 shipping data provided by the Port of Long Beach (POLB 2001).
(c) Annual ship calls for each of the design categories were estimated based on the percentages of ships in each category and the total annual incremental container ship calls.
(d) The PM10 weight fraction of PM is (CARB 2000): 0.96
(e) Number of the modeling sources for this category is: 3
(f) The speed for a container during maneuvering is 5 knots.
(g) The data for a container within 10,300-15,800 DWT listed in the ARCADIS report are used for a container less than 10,300 DWT.
(h) Peak hourly emissions were estimated based on one ship (103,900-115,200 DWT) call per day.
(i) Source of Data: 1995 Lloyd's shipping report.
(j) Source of Data: Acurex 1998. Unit of emission factors for tug boats is lb/1000gal.

Modeling Category C: On-site Operational Activities

Table B.3-3 Source Data and TAC Emissions - On-site Operational Equipment

Equipment Type (a)	Number Active(a)	Rated HP (b)	Load Factor (b)	Work Hrs Per Day (a)	Work Days Per Year (a)	Emission Factors (g/hr) PM (c)	PM10 (d)	Source Category	Modeling Source Emissions Annual PM10 (ton/year)	Modeling Source Emissions Hourly (e) PM10 (g/s)	Modeling Source Emissions Annual PM10 (g/s)
Cranes (electric)	--	--	--	8	360		-	-	-		
Top Handlers	0	330	1.000	6	360		0.00E+00	Large CI engine	0.000	0.00E+00	0.00E+00
RTG	0	250	1.000	7	360		0.00E+00	Large CI engine	0.000	0.00E+00	0.00E+00
Side Handler	3	225	1.000	6	360	26.624	2.60E+01	Large CI engine	0.186	2.17E-02	5.34E-03
Yard Hostlers	0	175	1.000	4	360		0.00E+00	Large CI engine	0.000	0.00E+00	0.00E+00
								Total	**1.86E-01**	**2.17E-02**	**5.34E-03**

Notes: (a) Source of Data: POLB 2002. All incremental equipment is diesel-fueled, unless otherwise indicated.

(b) Equipment horse power ratings and operating hours were provided by the POLB (2000). The load factor of 1 is used.

(c) Emission factors for PM were provided by the CARB (CARB 2002).

(d) The PM10 weight fraction of PM is (CARB 2000): 0.976

(e) The peak hourly emissions were conservatively assumed that all the equipment would be concurrently used in a peak hour.

Table B.3-4 Source Data and TAC Emissions - On-site Operational Trucks

Vehicle Type (a)	Number of Trucks Per Day(a)	VMT Traveling Per Hour (b)	Work Hrs Per Day (a)	Work Days Per Year (a)	Emission Factors (g/mile) (c) PM10	Source Category	Modeling Source Emissions Annual PM10 (ton/year)	Modeling Source Emissions Hourly (d) PM10 (g/s)	Modeling Source Emissions Annual PM10 (g/s)
Trucks (on-site)	0	10		360	0.628	HHDT	0.00E+00	0.00E+00	0.00E+00
	No. of Trucks Per Day (a)	*On-site Truck Traveling Distance (mile)*							
Trucks (off-site) (d)	392	2		360	0.628	HHDT	1.95E-01	1.37E-02	5.62E-03
	No. of Trucks Per Day (a)	*Idling Time (min) (b)*			*Idling Emission factors* g/hr	g/min			
Trucks (on-site)	0	15		360	1.838	0.0306 HHDT	0.00E+00	0.00E+00	0.00E+00
Trucks (off-site)	392	15		360	1.838	0.0306 HHDT	7.15E-02	5.00E-03	2.06E-03
						Total	**2.67E-01**	**1.87E-02**	**7.68E-03**

Notes: (a) Source of Data: The data for on-site trucks were from POLB 2002, and the data for off-site truck trips were from MMA 2002.
One truck will generate 2 trips, and 783 trips were calculated to be 392 trucks.

(b) Source of Data: Starcrest LLC 2003. The average truck traveling speed on the site is 10 miles per hour and the average idling time for a truck is 15 minutes.

(c) Source of Data: EMFAC2002 (Los Angeles County, Temperature 75oF and Humidity 40%)

(d) For peak hour emissions, all on-site trucks were assumed to be used concurrently and 10 percent of the daily off-site trucks to be used in a peak hour.

Table B.3-5 Source Data and TAC Emissions - Trains

Trains	No. of Trips Per Day(a)	Miles Per Trip (b)	Diesel Fuel Usage (gal/mile) (c)	No. of Trains Per Year (a)	Emission Factor (g/gal) (d) PM	PM10 (e)	Source Category	Modeling Source Emissions Annual PM10 (ton/year)	Modeling Source Emissions Hourly (f) PM10 (g/s)	Modeling Source Emissions Annual PM10 (g/s)
Trains (Line Haul)	1	1	2.69	208	6.2	6.051	Line Haul	3.73E-03	4.52E-03	1.07E-04
							Total	**3.73E-03**	**4.52E-03**	**1.07E-04**

Notes: (a) Source of Data: MMA 2002 (incremental train trips). A full train consists of 25 cars.

(b) The approximately train traveling distance within Pier J South.

(c) Source of Data: EPA 2001. The fuel usage represents the combined diesel usage taking into account train idling and traveling activities (EPA 2003).

(d) Source of Data: EPA 1997 (emission factor for 2007).

(e) The PM10 weight fraction of PM is (CARB 2002): 0.976

(f) Peak hour emissions were estimated assuming that one train would be used during a peak hour.

Table B.3-6 Estimated Diesel Exhaust PM10 Emissions

	Modeling Source Emissions		*Each Modeling Source Emissions (b)*	
	Hourly (a)	*Annual*	*Hourly*	*Annual*
	PM10 (g/s)	*PM10 (g/s)*	*PM10 (g/s)*	*PM10 (g/s)*
On-site Operational Equipment	2.17E-02	5.34E-03	3.09E-03	7.63E-04
On-site Trucks	1.87E-02	7.68E-03	2.67E-03	1.10E-03
Trains (within Pier J South)	4.52E-03	1.07E-04	6.46E-04	1.53E-05
Total	**4.49E-02**	**1.31E-02**	**6.41E-03**	**1.87E-03**

Note: (a) Peak hourly emissions were estimated assuming that all of the operational activities would occur in a peak hour.

(b) The number of the modeling sources for this category is: 7

Table B.3-7 Source Data and TAC Emissions - Transportation Trucks

Vehicle Type (a)	Number Trips Per Day(a)	Trip Distance Miles per Trip (b)	Work Days Per Year	Emission Factor (g/mile) (c) HHDT PM10	Modeling Source Emissions Annual PM10 (ton/year)	Modeling Source Emissions Hourly (e) PM10 (g/s)	Modeling Source Emissions Annual PM10 (g/s)
Trucks (HHDT)	783	2.8	360	0.297	2.54E-01	1.78E-02	7.30E-03
				Total	2.54E-01	1.78E-02	7.30E-03

Notes: (a) Source of Data: MMA 2002 (the incremental truck trips).

(b) The approximately vehicle traveling distance within the Port of Long Beach.

(c) Source of Data: EMFAC2002. The truck traveling speed is 30 miles per hour (Starcrest LLC).

(e) The peak hour truck trips were conservative assumed to be 10% of daily trips.

Table B.3-8 Source Data and TAC Emissions - Trains

Trains	No. of Trips Per Day(a)	Miles Per Trip (b)	Diesel Fuel Usage (gal/mile) (c)	No. of Trains Per Year (a)	Emission Factor (g/gal) (d) PM	PM10 (e)	Modeling Source Emissions Annual PM10 (ton/year)	Modeling Source Emissions Hourly (f) PM10 (g/s)	Modeling Source Emissions Annual PM10 (g/s)
Trains (Line Haul)	1	2.5	2.69	208	6.2	6.051	9.33E-03	1.13E-02	2.68E-04
						Total	9.33E-03	1.13E-02	2.68E-04

Notes: (a) Source of Data: MMA 2002 (incremental train trips).

(b) The approximately train traveling distance for this railroad segment (Starcrest LLC, 2004).

(c) Source of Data: EPA 2001. The fuel usage represents the combined diesel usage taking into account train idling and traveling activities (EPA 2003).

(d) Source of Data: EPA 1997 (Emission factor for 2007).

(e) The PM10 weight fraction of PM is (CARB 2002): 0.976

(f) Peak hour emission were estimated assuming that one train would be operated during a peak hour.

Table B.3-9 Estimated Diesel Exhaust PM10 Emissions - D-1

	Modeling Source Emissions		*Each Modeling Source Emissions (b)*	
	Hourly (a)	*Annual*	*Hourly*	*Annual*
	PM10 (g/s)	*PM10 (g/s)*	*PM10 (g/s)*	*PM10 (g/s)*
Transportation Trucks	1.78E-02	7.30E-03	8.46E-04	3.48E-04
Trains	1.13E-02	2.68E-04	5.38E-04	1.28E-05
Total	2.91E-02	7.57E-03	1.38E-03	3.60E-04

(b) The number of the modeling sources for this category is: 21

Table B.3-10 Source Data and TAC Emissions - Transportation Trucks

Vehicle Type (a)	Number Trips Per Day(a)	Trip Distance Miles per Trip (b)	Work Days Per Year	Emission Factor (g/mile) (c) PM10	PM10 (d)	Modeling Source Emissions Annual PM10 (ton/year)	Modeling Source Emissions Hourly (e) PM10 (g/s)	Modeling Source Emissions Annual PM10 (g/s)
Trucks (HHDT)	0	0.0				0.00E+00	0.00E+00	0.00E+00
					Total	**0.00E+00**	**0.00E+00**	**0.00E+00**

Table B.3-11 Source Data and TAC Emissions - Trains

Trains	No. of Trips Per Day(a)	Miles Per Trip (b)	Diesel Fuel Usage (gal/mile) (c)	No. of Trains Per Year (a)	Emission Factor (g/gal) (d) PM	PM10 (e)	Modeling Source Emissions Annual PM10 (ton/year)	Modeling Source Emissions Hourly (f) PM10 (g/s)	Modeling Source Emissions Annual PM10 (g/s)
Trains (Line Haul)	1	0.8	2.69	208	6.2	6.051	2.80E-03	3.39E-03	8.05E-05
						Total	**2.80E-03**	**3.39E-03**	**8.05E-05**

Notes: (a) Source of Data: MMA 2002 (incremental train trips).

(b) The approximately train traveling distance for this railroad segment.

(c) Source of Data: EPA 2001. The fuel usage represents the combined diesel usage taking into account train idling and traveling activities (EPA 2003).

(d) Source of Data: EPA 1997 (emission factor for 2007).

(e) The PM10 weight fraction of PM is (CARB 2000): 0.976

(f) Peak hour emission were estimated assuming that one train would be operated during a peak hour.

Table B.3-12 Estimated Diesel Exhaust PM10 Emissions - D-2

	Modeling Source Emissions		*Each Modeling Source Emissions (a)*	
	Hourly	*Annual*	*Hourly*	*Annual*
	PM10 (g/s)	*PM10 (g/s)*	*PM10 (g/s)*	*PM10 (g/s)*
Transportation Trucks	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Trains	3.39E-03	8.05E-05	8.48E-04	2.01E-05
Total	**3.39E-03**	**8.05E-05**	**8.48E-04**	**2.01E-05**

Note (a) The number of the modeling sources for this category is: 4

B.3-13 Summary of Estimated TAC Emissions - 52-Acre Landfill Alternative

	Category A (a)		Category B (a)		Category C (a)		Category D (a) (b)					Total
							D-1		D-2		Total	
TACs	Each Model Source (g/s)	Total (g/s)	Each Model Source (g/s)	Total (g/s)	Each Model Source (g/s)	Total (g/s)	Each Model Source (g/s)	Subtotal (g/s)	Each Model Source (g/s)	Subtotal (g/s)	(g/s)	Emissions (g/s)
Number of Sources in this Source Category	1		3		7		21		4			
					Hourly Emission Rates (g/s)							
DIESEL EXHAUST PM10	1.04E-01	1.04E-01	1.41E+00	4.22E+00	6.41E-03	4.49E-02	1.38E-03	2.91E-02	8.48E-04	3.39E-03	3.25E-02	4.40E+00
					Annual Emission Rates (g/s)							
DIESEL EXHAUST PM10	3.64E-02	3.64E-02	6.35E-03	1.90E-02	1.87E-03	1.31E-02	3.60E-04	7.57E-03	2.01E-05	8.05E-05	7.65E-03	7.62E-02

Note: (a) For diesel-powered IC engines and vehicles, risks are calculated based on diesel exhaust PM10, as instructed by the CARB (2002), as the OEHHA risk factor for diesel exhaust PM10 covers risks from all other constituents.

(b) Source Category D consists of two source groups, D-1 and D-2.

Predicted Risks - 75-Acre Landfill Alternative (HRA Update, 2004)

Risk Category	Pollutant	UTM East (m)	UTM North (m)	Receptor ID	Max. Annual Concentration (ug/m^3)		Health Values	Predicted Health Risks
FN							Unit Risk $(ug/m^3)^{-1}$	Cancer
Cancer Effect	PM10	388466.00	3736711	68	2.4150E-02		3.00E-04	7.245E-06
							Chronic REL	Chronic HI
Chronic Effect	PM10	388466.00	3736711	68	2.4150E-02		5	4.830E-03
CS								
Cancer Effect	PM10	388932.47	3736399.75	20	1.5300E-02		3.00E-04	4.590E-06
							Chronic REL	Chronic HI
Chronic Effect	PM10	388932.47	3736399.75	20	1.5300E-02		5	3.060E-03
HF								
Cancer Effect	PM10	389686.00	3735452	1	1.7220E-02	1.40E-01	3.00E-04	7.232E-07
							Chronic REL	Chronic HI
Chronic Effect	PM10	389686.00	3735452	1	1.7220E-02		5	3.444E-03

Predicted Risks - 52-Acre Landfill Alternative (HRA Update, 2004)

Risk Category	Pollutant	UTM East (m)	UTM North (m)	Receptor ID	Max. Annual Concentration (ug/m^3)		Health Values	Predicted Health Risks
FN							Unit Risk $(ug/m^3)^{-1}$	
Cancer Effect	PM10	388466.00	3736711	68	2.419E-02		3.00E-04	Cancer 7.257E-06
							Chronic REL	Chronic HI
Chronic Effect	PM10	388466.00	3736711	68	2.419E-02		5	4.838E-03
CS								
Cancer Effect	PM10	388932.50	3736399.75	20	1.465E-02		3.00E-04	4.395E-06
							Chronic REL	Chronic HI
Chronic Effect	PM10	388932.47	3736399.75	20	1.465E-02		5	2.930E-03
HF								
Cancer Effect	PM10	389686.00	3735452	1	1.688E-02	1.40E-01	3.00E-04	7.090E-07
							Chronic REL	Chronic HI
Chronic Effect	PM10	389686.00	3735452	1	1.688E-02		5	3.376E-03

Predicted Risks -115-Acre Landfill Alternative (HRA Addendum, 2004)

Risk Category	Pollutant	UTM East (m)	UTM North (m)	Receptor ID	Max. Annual Concentration (ug/m^3)		Health Values	Predicted Health Risks
FN							Unit Risk $(ug/m^3)^{-1}$	
Cancer Effect	PM10	388466.00	3736711	68	2.407E-02		3.00E-04	Cancer 7.22E-06
Chronic Effect	PM10	388466.00	3736711	68	2.407E-02		Chronic REL 5	Chronic HI 0.00481
CS								
Cancer Effect	PM10	388932.50	3736399.75	20	1.699E-02		3.00E-04	5.10E-06
Chronic Effect	PM10	388932.47	3736399.75	20	1.699E-02		Chronic REL 5	Chronic HI 0.00340
HF								
Cancer Effect	PM10	389686.00	3735452	1	1.842E-02	1.40E-01	3.00E-04	7.74E-07
Chronic Effect	PM10	389686.00	3735452	1	1.842E-02		Chronic REL 5	Chronic HI 0.00368

Predicted Risks - I-710 Segment under the 115-Acre Landfill Alternative (HRA Update, 2004)

Risk Category	Pollutant	UTM East (m)	UTM North (m)	Receptor ID	Max. Annual Concentration (ug/m^3)	Health Values	Predicted Health Risks
						Unit Risk $(ug/m^3)^{-1}$	Cancer
Cancer Effect	PM10	388179.00	3739909	6	1.090E-02	3.00E-04	3.27E-06
						Chronic REL	Chronic HI
Chronic Effect	PM10	388179.00	3739909	6	1.090E-02	5	0.00218

Predicted Risks - I-710 Segment for the 75-Acre Landfill Alternative (HRA Update, 2004)

Risk Category	Pollutant	UTM East (m)	UTM North (m)	Receptor ID	Max. Annual Concentration (ug/m^3)	Health Values	Predicted Health Risks
						Unit Risk $(ug/m^3)^{-1}$	Cancer
Cancer Effect	PM10	388179.00	3739909	6	2.030E-02	3.00E-04	6.09E-06
						Chronic REL	Chronic HI
Chronic Effect	PM10	388179.00	3739909	6	2.030E-02	5	0.00406

Predicted Risks - I-710 Segment for the 52 Acre Landfill Alternative (HRA Update, 2004)

Risk Category	Pollutant	UTM East (m)	UTM North (m)	Receptor ID	Max. Annual Concentration (ug/m^3)	Health Values	Predicted Health Risks
						Unit Risk $(ug/m^3)^{-1}$	Cancer
Cancer Effect	PM10	388179.00	3739909	6	2.120E-02	3.00E-04	6.36E-06
						Chronic REL	Chronic HI
Chronic Effect	PM10	388179.00	3739909	6	2.120E-02	5	0.00424

Predicted Combined Risks near I-710 for the 52-Acre Landfill Alternative (HRA Update, 2004)

Risk Category	Pollutant	UTM East (m)	UTM North (m)	Receptor ID	Max. Annual Concentration (ug/m^3)	Health Values	Predicted Health Risks	Max. Annual Concentration (ug/m^3)	Health Values	Predicted Health Risks	Combined Risk
					I-710 Sources	Unit Risk $(ug/m^3)^{-1}$	Cancer	All On-site Sources	Unit Risk $(ug/m^3)^{-1}$	Cancer	Cancer
Cancer Effect	PM10	388179.00	3739909	6	2.120E-02	3.00E-04	6.36E-06	2.740E-03	3.00E-04	8.22E-07	7.18E-06
Cancer Effect	PM10	388122.00	3739682	7	1.230E-02	3.00E-04	3.69E-06	2.980E-03	3.00E-04	8.94E-07	4.58E-06
						Chronic REL	Chronic HI		Chronic REL	Chronic HI	Chronic HI
Chronic Effect	PM10	388179.00	3739909	6	2.120E-02	5	0.00424	2.740E-03	5	0.00055	4.79E-03
Chronic Effect	PM10	388122.00	3739682	7	1.230E-02	5	0.00246	2.980E-03	5	0.00060	3.06E-03

```
NO ECHO

CO STARTING
CO TITLEONE Pier J South, 75-Acre Alt. HRA Addendum 2004
CO TITLETWO Fenceline and Near Grid
CO MODELOPT CONC URBAN NOCALM
CO AVERTIME PERIOD
CO POLLUTID TOX
CO TERRHGTS ELEV
CO RUNORNOT RUN
CO FINISHED

SO STARTING
SO ELEVUNIT METERS
** Source Location Cards:
**  SRCID      SRCTYP        XS              YS              ZS
SO LOCATION     1      Point        388639.00   3734058.00     0.00
SO LOCATION     2      Point        388163.00   3733900.00     0.00
SO LOCATION     3      Point        389060.00   3732690.00     0.00
SO LOCATION     4      Point        389919.00   3732016.00     0.00
SO LOCATION     5      Volume       388470.00   3733810.00     0.00
SO LOCATION     6      Volume       388912.00   3733810.00     0.00
SO LOCATION     7      Volume       389354.00   3733810.00     0.00
SO LOCATION     8      Volume       389796.00   3733810.00     0.00
SO LOCATION     10     Volume       389354.00   3733368.00     0.00
SO LOCATION     11     Volume       389796.00   3733368.00     0.00
SO LOCATION     12     Volume       389796.00   3734252.00     0.00
SO LOCATION     13     Volume       389739.00   3734573.00     0.00
SO LOCATION     14     Volume       389725.00   3734773.00     0.00
SO LOCATION     15     Volume       389683.00   3734973.00     0.00
SO LOCATION     16     Volume       389534.00   3735173.00     3.00
SO LOCATION     17     Volume       389347.00   3735373.00     5.00
SO LOCATION     18     Volume       389055.00   3735573.00     3.00
SO LOCATION     19     Volume       388767.00   3735773.00     4.00
SO LOCATION     20     Volume       388583.00   3735973.00     3.00
SO LOCATION     21     Volume       388391.00   3736173.00     3.00
SO LOCATION     22     Volume       388364.00   3736373.00     3.00
SO LOCATION     23     Volume       388258.00   3736573.00     5.00
SO LOCATION     24     Volume       388169.00   3736773.00     6.00
SO LOCATION     25     Volume       388160.00   3736973.00     5.00
SO LOCATION     26     Volume       388164.00   3737173.00     3.00
SO LOCATION     27     Volume       388191.00   3737373.00     3.00
SO LOCATION     28     Volume       388210.00   3737573.00     3.00
SO LOCATION     29     Volume       388207.00   3737773.00     5.00
SO LOCATION     30     Volume       388209.00   3737973.00     6.00
SO LOCATION     31     Volume       388185.00   3738173.00     8.00
SO LOCATION     32     Volume       388174.00   3738373.00     3.00
SO LOCATION     33     Volume       388186.00   3738573.00     3.00
SO LOCATION     34     Volume       387876.00   3738249.00     3.00
SO LOCATION     35     Volume       387591.00   3738333.00     3.00
SO LOCATION     36     Volume       387283.00   3738424.00     3.00
SO LOCATION     37     Volume       387003.00   3738492.00     3.00
** POINT:   SRCID       QS      HS      TS       VS       DS
** VOLUME:  SRCID       QS      HS     SYINIT   SZINIT

SO SRCPARAM     1  5.28e-2    37.60  495.00    25.8     2.01
SO SRCPARAM     2  9.20e-3    37.60  495.00    25.8     2.01
SO SRCPARAM     3  9.20e-3    37.60  495.00    25.8     2.01
SO SRCPARAM     4  9.20e-3    37.60  495.00    25.8     2.01
SO SRCPARAM     5  1.91e-3     2.50  205.58     2.320
SO SRCPARAM     6  1.91e-3     2.50  205.58     2.320
SO SRCPARAM     7  1.91e-3     2.50  205.58    2.320
SO SRCPARAM     8  1.91e-3     2.50  205.58    2.320
SO SRCPARAM     10 1.91e-3     2.50  205.58    2.320
SO SRCPARAM     11 1.91e-3     2.50  205.58    2.320
SO SRCPARAM     12 1.91e-3     2.50  205.58    2.320
SO SRCPARAM     13 3.39e-4     2.50  93.02     2.320
SO SRCPARAM     14 3.39e-4     2.50  93.02     2.320
SO SRCPARAM     15 3.39e-4     2.50  93.02     2.320
SO SRCPARAM     16 3.39e-4     2.50  93.02     2.320
SO SRCPARAM     17 3.39e-4     2.50  93.02     2.320
SO SRCPARAM     18 3.39e-4     2.50  93.02     2.320
SO SRCPARAM     19 3.39e-4     2.50  93.02     2.320
SO SRCPARAM     20 3.39e-4     2.50  93.02     2.320
SO SRCPARAM     21 3.39e-4     2.50  93.02     2.320
SO SRCPARAM     22 3.39e-4     2.50  93.02     2.320
SO SRCPARAM     23 3.39e-4     2.50  93.02     2.320
SO SRCPARAM     24 3.39e-4     2.50  93.02     2.320
SO SRCPARAM     25 3.39e-4     2.50  93.02     2.320
SO SRCPARAM     26 3.39e-4     2.50  93.02     2.320
SO SRCPARAM     27 3.39e-4     2.50  93.02     2.320
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SO SRCPARAM     28 3.39e-4     2.50  93.02    2.320
SO SRCPARAM     29 3.39e-4     2.50  93.02    2.320
SO SRCPARAM     30 3.39e-4     2.50  93.02    2.320
SO SRCPARAM     31 3.39e-4     2.50  93.02    2.320
SO SRCPARAM     32 3.39e-4     2.50  93.02    2.320
SO SRCPARAM     33 3.39e-4     2.50  93.02    2.320
SO SRCPARAM     34 2.59e-5     2.50 139.53    2.320
SO SRCPARAM     35 2.59e-5     2.50 139.53    2.320
SO SRCPARAM     36 2.59e-5     2.50 139.53    2.320
SO SRCPARAM     37 2.59e-5     2.50 139.53    2.320

SO SRCGROUP   all all
SO FINISHED


RE STARTING
RE ELEVUNIT METERS
**FENCELINE
RE DISCCART      384324.0   3735785.0        3.0
RE DISCCART      384357.0   3735692.0        3.0
RE DISCCART      384390.0   3735599.0        3.0
RE DISCCART      384415.0   3735819.0        3.0
RE DISCCART      384424.0   3735506.0        3.0
RE DISCCART      384457.0   3735413.0        3.0
RE DISCCART      384490.0   3735320.0        3.0
RE DISCCART      384507.0   3735853.0        3.0
RE DISCCART      384599.0   3735887.0        3.0
RE DISCCART      384660.0   3736696.0        0.0
RE DISCCART      384691.0   3735921.0        3.0
RE DISCCART      384709.0   3736616.0        3.0
RE DISCCART      384733.0   3736760.0        0.0
RE DISCCART      384759.0   3736536.0        3.0
RE DISCCART      384782.0   3735955.0        3.0
RE DISCCART      384806.0   3736825.0        0.0
RE DISCCART      384809.0   3736456.0        3.0
RE DISCCART      384859.0   3736377.0        3.0
RE DISCCART      384874.0   3735989.0        3.0
RE DISCCART      384880.0   3736890.0        0.0
RE DISCCART      384908.0   3736297.0        3.0
RE DISCCART      384953.0   3736955.0        1.0
RE DISCCART      384958.0   3736217.0        3.0
RE DISCCART      384966.0   3736023.0        3.0
RE DISCCART      385008.0   3736137.0        3.0
RE DISCCART      385027.0   3737020.0        3.0
RE DISCCART      385058.0   3736058.0        3.0
RE DISCCART      385100.0   3737085.0        3.0
RE DISCCART      385174.0   3737150.0        3.0
RE DISCCART      385247.0   3737215.0        3.0
RE DISCCART      385321.0   3737279.0        3.0
RE DISCCART      385394.0   3737344.0        3.0
RE DISCCART      385468.0   3737409.0        3.0
RE DISCCART      385541.0   3737474.0        3.0
RE DISCCART      385615.0   3737539.0        3.0
RE DISCCART      385688.0   3737604.0        3.0
RE DISCCART      385762.0   3737669.0        3.0
RE DISCCART      385835.0   3737734.0        3.0
RE DISCCART      385909.0   3737798.0        3.0
RE DISCCART      385982.0   3737863.0        3.0
RE DISCCART      386055.0   3737928.0        3.0
RE DISCCART      386129.0   3737993.0        3.0
RE DISCCART      386202.0   3738058.0        3.0
RE DISCCART      386276.0   3738123.0        3.0
RE DISCCART      386349.0   3738188.0        3.0
RE DISCCART      386423.0   3738253.0        3.0
RE DISCCART      386496.0   3738317.0        3.0
RE DISCCART      386570.0   3738382.0        3.0
RE DISCCART      386643.0   3738447.0        3.0
RE DISCCART      386717.0   3738512.0        3.0
RE DISCCART      386790.0   3738577.0        3.0
RE DISCCART      386864.0   3738642.0        3.0
RE DISCCART      386937.0   3738707.0        3.0
RE DISCCART      387011.0   3738772.0        3.0
RE DISCCART      387109.0   3738770.0        3.0
RE DISCCART      387207.0   3738768.0        3.0
RE DISCCART      387306.0   3738767.0        3.0
RE DISCCART      387404.0   3738765.0        3.0
RE DISCCART      387503.0   3738763.0        3.0
RE DISCCART      387601.0   3738762.0        3.0
RE DISCCART      387699.0   3738760.0        3.0
RE DISCCART      387798.0   3738758.0        3.0
RE DISCCART      387896.0   3738757.0        3.0
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RE DISCCART      387995.0   3738755.0        3.0
RE DISCCART      388093.0   3738753.0        3.0
RE DISCCART      388203.0   3738750.0        6.0
RE DISCCART      388388.0   3738748.0        0.0
RE DISCCART      388466.0   3736711.0        1.0
RE DISCCART      388466.0   3736808.0        2.0
RE DISCCART      388466.0   3736904.0        2.0
RE DISCCART      388467.0   3737001.0        2.0
RE DISCCART      388468.0   3737098.0        2.0
RE DISCCART      388469.0   3737195.0        2.0
RE DISCCART      388470.0   3737292.0        2.0
RE DISCCART      388471.0   3737389.0        2.0
RE DISCCART      388472.0   3737486.0        2.0
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RE DISCCART      388485.0   3738650.0        1.0
RE DISCCART      388487.0   3738747.0        1.0

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RE DISCCART	385324.0	3737729.0	3.0
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RE DISCCART	390224.0	3737829.0	10.0
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RE DISCCART	390324.0	3737129.0	9.0
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RE DISCCART	390324.0	3737329.0	9.0

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RE DISCCART	390324.0	3737529.0	9.0
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RE DISCCART	390324.0	3737729.0	11.0
RE DISCCART	390324.0	3737829.0	11.0
RE DISCCART	390324.0	3737929.0	10.0
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RE DISCCART	390424.0	3737329.0	10.0
RE DISCCART	390424.0	3737429.0	9.0
RE DISCCART	390424.0	3737529.0	9.0
RE DISCCART	390424.0	3737629.0	10.0
RE DISCCART	390424.0	3737729.0	11.0
RE DISCCART	390424.0	3737829.0	11.0
RE DISCCART	390424.0	3737929.0	10.0
RE DISCCART	390424.0	3738029.0	9.0
RE DISCCART	390424.0	3738129.0	9.0
RE DISCCART	390424.0	3738229.0	10.0
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RE DISCCART	390524.0	3736829.0	4.0
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RE DISCCART	390624.0	3736829.0	6.0
RE DISCCART	390624.0	3736929.0	7.0

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RE DISCCART	390724.0	3737029.0	8.0
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RE DISCCART	390824.0	3737329.0	12.0
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RE DISCCART	390924.0	3736729.0	7.0
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RE DISCCART	391124.0	3736929.0	10.0
RE DISCCART	391124.0	3737029.0	11.0
RE DISCCART	391124.0	3737129.0	11.0
RE DISCCART	391124.0	3737229.0	12.0
RE DISCCART	391124.0	3737329.0	13.0
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RE DISCCART	391224.0	3736829.0	13.0
RE DISCCART	391224.0	3736929.0	10.0
RE DISCCART	391224.0	3737029.0	11.0
RE DISCCART	391224.0	3737129.0	11.0
RE DISCCART	391224.0	3737229.0	12.0
RE DISCCART	391224.0	3737329.0	13.0
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RE DISCCART	391424.0	3736529.0	3.0

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RE DISCCART          391624.0     3736829.0         14.0
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RE DISCCART          391624.0     3737029.0         12.0
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RE DISCCART          391824.0     3736929.0         12.0
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RE DISCCART          392024.0     3736629.0         13.0
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RE FINISHED

ME STARTING
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ME SURFDATA  53101 1981
ME UAIRDATA  91919 1981
ME FINISHED

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CO STARTING
CO TITLEONE Pier J South, 75-Acre Alt. HRA Addendum 2004
CO TITLETWO Census Tracts and Sensitive Receptors
CO MODELOPT CONC URBAN NOCALM
CO AVERTIME PERIOD
CO POLLUTID TOX
CO TERRHGTS ELEV
CO RUNORNOT RUN
CO FINISHED

SO STARTING
SO ELEVUNIT METERS
** Source Location Cards:
**  SRCID       SRCTYP          XS                YS              ZS
SO LOCATION      1      Point        388639.00   3734058.00     0.00
SO LOCATION      2      Point        388163.00   3733900.00     0.00
SO LOCATION      3      Point        389060.00   3732690.00     0.00
SO LOCATION      4      Point        389919.00   3732016.00     0.00
SO LOCATION      5      Volume       388470.00   3733810.00     0.00
SO LOCATION      6      Volume       388912.00   3733810.00     0.00
SO LOCATION      7      Volume       389354.00   3733810.00     0.00
SO LOCATION      8      Volume       389796.00   3733810.00     0.00
SO LOCATION      10     Volume       389354.00   3733368.00     0.00
SO LOCATION      11     Volume       389796.00   3733368.00     0.00
SO LOCATION      12     Volume       389796.00   3734252.00     0.00
SO LOCATION      13     Volume       389739.00   3734573.00     0.00
SO LOCATION      14     Volume       389725.00   3734773.00     0.00
SO LOCATION      15     Volume       389683.00   3734973.00     0.00
SO LOCATION      16     Volume       389534.00   3735173.00     3.00
SO LOCATION      17     Volume       389347.00   3735373.00     5.00
SO LOCATION      18     Volume       389055.00   3735573.00     3.00
SO LOCATION      19     Volume       388767.00   3735773.00     4.00
SO LOCATION      20     Volume       388583.00   3735973.00     3.00
SO LOCATION      21     Volume       388391.00   3736173.00     3.00
SO LOCATION      22     Volume       388364.00   3736373.00     3.00
SO LOCATION      23     Volume       388258.00   3736573.00     5.00
SO LOCATION      24     Volume       388169.00   3736773.00     6.00
SO LOCATION      25     Volume       388160.00   3736973.00     5.00
SO LOCATION      26     Volume       388164.00   3737173.00     3.00
SO LOCATION      27     Volume       388191.00   3737373.00     3.00
SO LOCATION      28     Volume       388210.00   3737573.00     3.00
SO LOCATION      29     Volume       388207.00   3737773.00     5.00
SO LOCATION      30     Volume       388209.00   3737973.00     6.00
SO LOCATION      31     Volume       388185.00   3738173.00     8.00
SO LOCATION      32     Volume       388174.00   3738373.00     3.00
SO LOCATION      33     Volume       388186.00   3738573.00     3.00
SO LOCATION      34     Volume       387876.00   3738249.00     3.00
SO LOCATION      35     Volume       387591.00   3738333.00     3.00
SO LOCATION      36     Volume       387283.00   3738424.00     3.00
SO LOCATION      37     Volume       387003.00   3738492.00     3.00
** POINT:   SRCID       QS      HS      TS        VS        DS
** VOLUME:  SRCID       QS      HS     SYINIT    SZINIT

SO SRCPARAM      1  5.28e-2    37.60   495.00     25.8      2.01
SO SRCPARAM      2  9.20e-3    37.60   495.00     25.8      2.01
SO SRCPARAM      3  9.20e-3    37.60   495.00     25.8      2.01
SO SRCPARAM      4  9.20e-3    37.60   495.00     25.8      2.01
SO SRCPARAM      5  1.91e-3     2.50   205.58     2.320
SO SRCPARAM      6  1.91e-3     2.50   205.58     2.320
SO SRCPARAM      7  1.91e-3     2.50   205.58     2.320
SO SRCPARAM      8  1.91e-3     2.50   205.58     2.320
SO SRCPARAM      10 1.91e-3     2.50   205.58     2.320
SO SRCPARAM      11 1.91e-3     2.50   205.58     2.320
SO SRCPARAM      12 1.91e-3     2.50   205.58     2.320
SO SRCPARAM      13 3.39e-4     2.50   93.02      2.320
SO SRCPARAM      14 3.39e-4     2.50   93.02      2.320
SO SRCPARAM      15 3.39e-4     2.50   93.02      2.320
SO SRCPARAM      16 3.39e-4     2.50   93.02      2.320
SO SRCPARAM      17 3.39e-4     2.50   93.02      2.320
SO SRCPARAM      18 3.39e-4     2.50   93.02      2.320
SO SRCPARAM      19 3.39e-4     2.50   93.02      2.320
SO SRCPARAM      20 3.39e-4     2.50   93.02      2.320
SO SRCPARAM      21 3.39e-4     2.50   93.02      2.320
SO SRCPARAM      22 3.39e-4     2.50   93.02      2.320
SO SRCPARAM      23 3.39e-4     2.50   93.02      2.320
SO SRCPARAM      24 3.39e-4     2.50   93.02      2.320
SO SRCPARAM      25 3.39e-4     2.50   93.02      2.320
SO SRCPARAM      26 3.39e-4     2.50   93.02      2.320
SO SRCPARAM      27 3.39e-4     2.50   93.02      2.320
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SO SRCPARAM     28 3.39e-4     2.50  93.02    2.320
SO SRCPARAM     29 3.39e-4     2.50  93.02    2.320
SO SRCPARAM     30 3.39e-4     2.50  93.02    2.320
SO SRCPARAM     31 3.39e-4     2.50  93.02    2.320
SO SRCPARAM     32 3.39e-4     2.50  93.02    2.320
SO SRCPARAM     33 3.39e-4     2.50  93.02    2.320
SO SRCPARAM     34 2.59e-5     2.50 139.53    2.320
SO SRCPARAM     35 2.59e-5     2.50 139.53    2.320
SO SRCPARAM     36 2.59e-5     2.50 139.53    2.320
SO SRCPARAM     37 2.59e-5     2.50 139.53    2.320

SO SRCGROUP   all all
SO FINISHED

RE STARTING
RE ELEVUNIT METERS
** Centroid Receptors
RE DISCCART      386807.86      3741460.88       4.00
RE DISCCART      384527.05      3739274.88       7.90
RE DISCCART      385032.26      3737594.32       3.00
RE DISCCART      382414.73      3736850.77       0.00
RE DISCCART      383985.70      3732349.61       0.00
RE DISCCART      387759.67      3740739.81       5.40
RE DISCCART      386945.94      3740350.33       3.00
RE DISCCART      387898.26      3739937.42       3.00
RE DISCCART      388935.26      3739914.21       3.00
RE DISCCART      389683.91      3739905.65       4.90
RE DISCCART      390272.87      3739093.64       9.10
RE DISCCART      388930.38      3739121.50       3.00
RE DISCCART      389667.08      3739096.21       4.00
RE DISCCART      387379.64      3739150.60       3.00
RE DISCCART      388662.43      3738309.47       4.30
RE DISCCART      389134.26      3738303.91      10.10
RE DISCCART      389453.76      3738294.71      11.00
RE DISCCART      388711.66      3737632.31       3.90
RE DISCCART      389312.55      3737558.90       9.80
RE DISCCART      388932.48      3736399.65       3.60
RE DISCCART      390083.73      3736276.04       4.50
RE DISCCART      390120.10      3737550.29       9.10
RE DISCCART      390120.83      3738287.02      11.00
RE DISCCART      390867.40      3738278.45      10.10
RE DISCCART      391272.90      3738273.80       9.10
RE DISCCART      390812.84      3737530.10      11.90
RE DISCCART      391288.46      3737486.17      10.10
RE DISCCART      391671.60      3737454.28      12.10
RE DISCCART      390756.18      3736744.72       7.00
** Sensitive Receptors
RE DISCCART      387224.00      3739079.00       3.00
RE DISCCART      387371.00      3740586.00       4.10
RE DISCCART      387703.00      3740429.00       4.90
RE DISCCART      388804.00      3737828.00       4.00
RE DISCCART      389063.00      3740136.00       4.00
RE DISCCART      389125.00      3738872.00       3.00
RE DISCCART      389383.00      3738961.00       4.90
RE DISCCART      389464.00      3739330.00       3.00
RE DISCCART      389785.00      3738063.00      11.00
RE DISCCART      390156.00      3739107.00      10.10
RE DISCCART      390172.00      3738244.00      10.20
RE DISCCART      390174.00      3738367.00      11.20
RE DISCCART      390347.00      3737687.00      10.30
RE DISCCART      391804.00      3736931.00      14.40
RE DISCCART      382000.00      3738000.00       7.90
RE DISCCART      382000.00      3739100.00       7.30
RE DISCCART      382900.00      3739300.00       7.90
RE DISCCART      382100.00      3740500.00       6.10
RE DISCCART      383300.00      3740000.00       3.70
RE DISCCART      384700.00      3739100.00       4.60
RE DISCCART      388000.00      3742200.00       7.90
RE DISCCART      387300.00      3741700.00       6.10
RE DISCCART      388900.00      3741900.00       7.00
RE DISCCART      389600.00      3741400.00       7.00
RE DISCCART      389300.00      3740900.00       6.10
RE DISCCART      389600.00      3741000.00       4.00
RE DISCCART      390100.00      3741500.00      15.60
RE DISCCART      390300.00      3740500.00       6.10
RE DISCCART      390500.00      3739200.00       7.00
RE DISCCART      390800.00      3737800.00       9.80
RE DISCCART      391000.00      3737700.00      11.90
RE DISCCART      391000.00      3738400.00      11.60
RE DISCCART      391400.00      3739300.00       3.00
RE DISCCART      393200.00      3736900.00      17.40
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RE DISCCART        392200.00        3737500.00        13.10
RE DISCCART        392700.00        3737300.00        15.50
RE DISCCART        392800.00        3737700.00        11.90
RE DISCCART        393000.00        3738300.00        10.10
RE DISCCART        392800.00        3739300.00        22.60
RE DISCCART        393000.00        3739000.00        16.30
RE DISCCART        393800.00        3737900.00         7.90
RE DISCCART        394000.00        3737300.00        19.70
RE DISCCART        394300.00        3738000.00         3.00
RE DISCCART        394000.00        3738700.00        14.60
RE DISCCART        394100.00        3738700.00        13.90
RE DISCCART        394100.00        3739200.00        18.70
RE DISCCART        393500.00        3741000.00        14.00
RE DISCCART        393800.00        3741100.00         8.50
RE DISCCART        389500.00        3739500.00         3.00

RE FINISHED


ME STARTING
ME INPUTFIL longbch.asc
ME ANEMHGHT    10.0000
ME SURFDATA  53101 1981
ME UAIRDATA  91919 1981
ME FINISHED

OU STARTING
OU RECTABLE Allave first
OU MAXTABLE Allave 20
OU PLOTFILE period all a2csad.plt

OU FINISHED
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