

VOLUME III  
TECHNICAL APPENDICES F - J

DRAFT  
ENVIRONMENTAL IMPACT REPORT

CARSON MARKETPLACE



SCH No. 2005051059

NOVEMBER 2005





**VOLUME III**  
**TECHNICAL APPENDICES F - J**

**DRAFT**  
**ENVIRONMENTAL IMPACT REPORT**

**CARSON MARKETPLACE**

LEAD AGENCY

**CARSON REDEVELOPMENT AGENCY**  
ONE CIVIC PLAZA DRIVE, #200  
CARSON, CALIFORNIA 90745

PREPARED BY

**PCR SERVICES CORPORATION**  
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APPENDIX F:  
AIR QUALITY TECHNICAL APPENDIX



# Appendix F-1

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Phase	Equipment Name	Hours	HP	Load	Trip Length	Year	Month	2008	7	8	9	10	11	12	1	2	3	4	5	6	20								
Site Preparation	8-8 CY Front-end Loaders	8	165	0.465																									
	Bulldozer	8	352	0.59																									
	Tractor/Loader/Backhoe	8	255	0.41	5																								
	Water Truck	8	190	0.43	5																								
Deep Dynamic Compaction	250-ton Crane	8	417	0.48																									
	40-ton Off Highway Truck	8	352	0.59																									
	Bulldozer	8	165	0.465																									
	Front-end Loaders	8	352	0.59																									
Grading	Water Trucks	8	174	0.575	5																								
	Bulldozer	8	352	0.59																									
	Front-end Loaders	8	165	0.465																									
	Grader	8	313	0.68																									
Remediation Construction	Sheepshead Soil Compactor	8	50	0.52	5																								
	Water Trucks	8	313	0.68																									
	24-CY Scraper	8	180	0.52																									
	30-50-CY Excavator	8	165	0.465																									
Utilities/Roads	Front End Loaders	8	218	0.75																									
	Hollow Stem Drill Rig	8	174	0.575																									
	Small Road Grader	8	114	0.43																									
	Smooth Drum Roller	8	79	0.465																									
Pile Driving	Tractor/Loader/Backhoe	8	190	0.43																									
	Concrete Pump (Truck Mounted)	8	174	0.575																									
	Finish Grader	8	190	0.62																									
	Misc Equipment (Generators, Compressors Paving Equipment)	8	79	0.465																									
Construction and Tenant Improvements	Tractor/Loader/Backhoe	8	180	0.52																									
	150-ton Pile Driver	8	165	0.465																									
	150-ton Crane	8	180	0.52																									
	30-50-ton Excavator	8	94	0.475																									
Site Preparation (11 acre site)	Misc Equipment (Generators, Compressors, etc.)	8	190	0.62																									
	Concrete Pump (Truck Mounted)	8	94	0.475																									
	Forklift	8	165	0.465																									
	Misc Equipment (Generators, Compressors etc.)	8	190	0.62																									
Grading (11 acre site)	Slinger Crane (Truck Mounted)	2	190	0.62																									
	Bulldozer	8	352	0.59																									
	Tractor/Loader/Backhoe	8	79	0.465																									
	Grader	8	174	0.575																									
Construction (11 acre site)	Misc Equipment (Generators, Compressors Paving Equipment)	8	190	0.62																									
	Water Truck	8	79	0.465	5																								
	24-CY Scraper	8	313	0.68																									
	8-CY Front-end Loader	8	165	0.465																									
Perimeter Vapor Probes	Bulldozer	8	352	0.59																									
	Graders	8	174	0.575																									
	Soil Compactor	8	190	0.62																									
	Water Truck	4	190	0.52	20																								
Off-site Truck Trips	Flatbed Truck	8	190	0.62																									
	Forlift	8	190	0.62																									
	Misc Equipment (Generators, Compressors Paving Equipment)	8	190	0.62																									
	Tractor/Loader/Backhoe	8	79	0.465	5																								
Worker Trips	Water Truck	8	218	0.75																									
	Tractor/Loader/Backhoe	8	79	0.465																									
	Off-site Delivery Trucks (Roundtrips)	20																											
	Off-site Haul Trucks (Roundtrips)	20																											
Architectural Coatings	Worker Trips - Calculated Total																												
	Architectural Coatings - Commercial Square Footage per month																												
	Architectural Coatings - Residential Square Footage per month																												
	Asphalt (acres per month)																												
Fugitive Dust	Fugitive Dust (acres per day) - Max																												
	Fugitive Dust (acres per day) - Normal																												



Phases	Equipment Name	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9
Site Preparation	Bulldozer																			
	Front-end Loaders																			
	Water Truck																			
Deep Dynamic Compaction	250-ton Crane																			
	40-ton Off Highway Truck																			
Grading	Bulldozer																			
	Water Trucks																			
	Front-end Loaders																			
	Grader																			
	Scrapers																			
	Sheepsfoot Soil Compactor																			
	Water Trucks																			
Remediation Construction	12-20 CY Scrapers																			
	Front-end Loader																			
	Front End Loader																			
	Hollow Stem Drill Rig																			
	Small Road Grader																			
	Smooth Drum Roller																			
	Tractor/Loader/Backhoe																			
	200-ton Crane																			
	Concrete Pump (Truck Mounted)																			
	Finish Grader																			
Pile Driving	Misc Equipment (Generators, Compressors, Paving Equipment)																			
	Tractor/Loader/Backhoe																			
	30-ton Pile Driver																			
	30-50-ton Crane																			
	30-50-ton Excavator																			
	Forklift																			
	Misc Equipment (Generators, Compressors, etc.)																			
	200-ton Crane																			
	Concrete Pump (Truck Mounted)																			
	Construction and Tenant Improvements	Forklift																		
Front-end Loader																				
Misc Equipment (Generators, Compressors, etc.)																				
Shovel Crane (Truck Mounted)																				
Tractor/Loader/Backhoe																				
Bulldozer																				
Grader																				
Misc Equipment (Generators, Compressors, Paving Equipment)																				
Water Truck																				
Grading (11 acre site)		24-CY Scraper																		
	6-CY Front-end Loader																			
Construction (11 acre site)	Bulldozer																			
	Grader																			
	Soil Compactor																			
	Water Truck																			
	Concrete Pump (Truck Mounted)																			
	Flatbed Truck																			
	Forklift																			
	Misc Equipment (Generators, Compressors, Paving Equipment)																			
	Tractor/Loader/Backhoe																			
	Water Truck																			
Perimeter Vapor Probes	Water Truck																			
	Tractor/Loader/Backhoe																			
Off-site Truck Trips	Offsite Haul Trucks (Roundtrips)																			
	Offsite Haul Trucks (Roundtrips)																			
Worker Trips	Offsite Haul Trucks (Roundtrips)																			
	Worker Trips - Calculated Total	282	282	249	249	260	260	135	135	105	84	71	71	71	71	71	71	71	71	71
Architectural Coatings	Architectural Coatings - Commercial Square Footage per month	243000	210000	210000	210000	210000	243000	243000	243000	243000	243000	233000	200000	200000	200000	200000	200000	200000	200000	200000
	Architectural Coatings - Residential Square Footage per month	498000	498000	498000	498000	498000	498000	498000	498000	498000	498000	498000	498000	498000	498000	498000	498000	498000	498000	498000
Asphalt	Asphalt (acres per month)	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
	Fugitive Dust (acres per day) - Max	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
Fugitive Dust	Fugitive Dust (acres per day) - Normal	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000
	Fugitive Dust (yds per day) - Normal	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000



Phase	Equipment Name	12	11	10	9	8	7	6	5	4	3	2	1	2008	7	8	9	10	11	12	1	2	3			
Site Preparation	6-8 CY Front-end Loaders																									
	Bulldozer																									
	End Dump Trucks																									
	Tracked Loader																									
Deep Dynamic Compaction	Water Truck																									
	250-ton Cranes																									
	40-ton Off-Highway Truck																									
	Bulldozer																									
Grading	Front-end Loaders																									
	Grader																									
	Scrapers																									
	Water Trucks																									
Remediation Construction	17-20 CY Scrapers																									
	30-50-ton Excavator																									
	Front End Loaders																									
	Hollow Stem Drill Rig																									
	Small Road Grader																									
	Smooth Drum Roller																									
	Tractor Loader/Backhoe																									
	Concrete Pump (Truck Mounted)																									
	Finish Grader																									
	Misc. Equipment (Generators, Compressors, Paving Equipment)																									
Pile Driving	Tractor/Loader/Backhoe																									
	150-ton Pile Driver																									
	200-ton Crane																									
	30-50-ton Excavator																									
Construction and Tenant Improvement	Forklift																									
	Misc. Equipment (Generators, Compressors, etc.)																									
	200-ton Crane																									
	Concrete Pump (Truck Mounted)																									
	Forklift																									
	Front-end Loader																									
	Misc. Equipment (Generators, Compressors, etc.)																									
	Tractor/Loader/Backhoe																									
	Bulldozer																									
	Grader																									
Site Preparation (11 acre site)	Misc. Equipment (Generators, Compressors, Paving Equipment)																									
	Tractor/Loader/Backhoe																									
	Water Truck																									
	24-CY Scraper																									
Grading (11 acre site)	8-CY Front-end Loader																									
	Bulldozer																									
	Graders																									
	Soil Compactor																									
Construction (11 acre site)	Water Truck																									
	Concrete Pump (Truck Mounted)																									
	Flattened Truck																									
	Forklift																									
Perimeter Vapor Probes	Misc. Equipment (Generators, Compressors, Paving Equipment)																									
	Tractor/Loader/Backhoe																									
	Hollow Stem Drill Rig																									
	Tractor/Loader/Backhoe																									
Offsite Truck Trips	Offsite Delivery Trucks (Roundtrips)																									
	Offsite Haul Trucks (Roundtrips)																									
	Offsite Trash Trucks (Roundtrips)																									
	Worker Trips - Calculated Total																									
Architectural Coatings	Misc. Equipment (Generators, Compressors, Paving Equipment)																									
	Tractor/Loader/Backhoe																									
	Misc. Equipment (Generators, Compressors, Paving Equipment)																									
	Architectural Coatings - Residential Square Footage per month																									
Asphalt	Asphalt (acres per month)																									
	Fugitive Dust (acres per day) - Max																									
Fugitive Dust	Fugitive Dust (acres per day) - Normal																									
	Fugitive Dust (yd3 per day) - Normal																									

Phase	Equipment/Name	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9
Site Preparation	18-CY Front-end Loaders																		
	Bulldozer																		
	Front-End Loaders																		
	Water Trucks																		
Deep Dynamic Compaction	250-ton Crane																		
	40-ton Off Highway Truck																		
	Bulldozer																		
	Water Trucks																		
Grading	Bulldozer																		
	Front-end Loaders																		
	Grader																		
	Scrapers																		
Remediation Construction	Sheepsfoot Soil Compactor																		
	Water Trucks																		
	12-20 CY Scrapers																		
	Front-End Loaders																		
	30-50-ton Excavator																		
	Front-End Loaders																		
	Small Road Grader																		
	Smooth Drum Roller																		
	Tractor/Loader/Backhoe																		
	200-ton Crane																		
	Concrete Pumps (Truck Mounted)																		
	Utilities/Roads	Finish Grader																	
Misc Equipment (Generators Compressors, etc)																			
Tractor/Loader/Backhoe																			
150-ton Pile Driver																			
Pile Driving	200-ton Crane																		
	30-50-ton Excavator																		
	Forklift																		
	Misc Equipment (Generators, Compressors, etc)																		
Construction and Tenant Improvement	200-ton Crane																		
	Concrete Pump (Truck Mounted)																		
	Scrapers																		
	Front-end Loader																		
Misc Equipment (Generators, Compressors, etc)	Misc Equipment (Generators, Compressors, etc)																		
	Slings Crane (Truck Mounted)																		
	Tractor/Loader/Backhoe																		
	Bulldozer																		
Site Preparation (11 acre site)	Grader																		
	Misc Equipment (Generators, Compressors, Paving Equipment)																		
	Tractor/Loader/Backhoe																		
	Water Truck																		
Grading (11 acre site)	24-CY Scraper																		
	8-CY Front-end Loader																		
	Bulldozer																		
	Graders																		
Construction (11 acre site)	Water Truck																		
	Concrete Pump (Truck Mounted)																		
	Front-End Loader																		
	Forklift																		
Misc Equipment (Generators, Compressors, Paving Equipment)	Misc Equipment (Generators, Compressors, Paving Equipment)																		
	Tractor/Loader/Backhoe																		
	Water Truck																		
	Hollow Stem Drill Rig																		
Perimeter Vapor Probes	Tractor/Loader/Backhoe																		
	Off-site Delivery Trucks (Roundtrips)																		
	Off-site Haul Trucks (Roundtrips)																		
	Off-site Trash Trucks (Roundtrips)																		
Worker Trips	Worker Trips - Calculated Total	282	249	248	260	260	135	135	105	84	71	71	71	71	71	71	71	71	71
	Architectural Coatings - Commercial Square Footage per month	210000	210000	210000	210000	210000	243000	243000	243000	243000	243000	243000	243000	243000	243000	243000	243000	243000	243000
	Architectural Coatings - Residential Square Footage per month	498000	498000	498000	498000	498000	498000	498000	498000	498000	498000	498000	498000	498000	498000	498000	498000	498000	498000
	Asphalt (acres per month)	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Asphalt Fugitive Dust	Fugitive Dust (acres per day) - Max	12.5																	
	Fugitive Dust (acres per day) - Normal	2000																	
	Fugitive Dust (yds per day) - Normal	2000																	

Phase	Equipment/Name	Hours	HP	Load	Trip Length	Year																	
						Month	1	2	3	4	5	6	2007										
Site Preparation	5-8 CY Front-end Loaders	8	165	0.65		4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	2007	7	
	Bulldozer	8	352	0.59																			
	Highway End Dump Trucks				5																		
	Tracked Loader	8	255	0.41																			
Deep Dynamic Compaction	Water Trucks	8	190	0.43																			
	250-ton Crane	8	417	0.49																			
	8-CY Front-end Loaders	8	165	0.65																			
	Bulldozer	8	352	0.59																			
	Water Trucks	8	190	0.43																			
Grading	Water Trucks	8	190	0.43	5																		
	Front-end Loader	8	165	0.65																			
	Excavator	8	174	0.575																			
	Grader	8	174	0.575																			
	Scrapers	8	313	0.65																			
	Sheepsfoot Soil Compactor	8	50	0.62																			
Remediation Construction	Water Trucks	8	313	0.65																			
	15-20 CY Scrapers	8	180	0.58																			
	30-50-ton Excavator	8	165	0.65																			
	8-9 CY Front End Loaders	8	165	0.65																			
	Hollow Stem Drill Rig	8	218	0.75																			
	Small Road Grader	8	174	0.575																			
	Tractor/loader/Backhoe	8	79	0.65																			
	Water Trucks	8	190	0.43																			
	200-ton Crane	8	180	0.43																			
	30-50-ton Excavator	8	165	0.65																			
	Forklift	8	94	0.475																			
	Utilities/Roads	Misc. Equipment (Generators, Compressors, Paving Equipment)	8	190	0.62																		
Tractor/loader/Backhoe		8	79	0.65																			
Water Truck		8	190	0.43																			
Pile Driving	Misc. Equipment (Generators, Compressors, Paving Equipment)	8	190	0.62																			
	Tractor/loader/Backhoe	8	79	0.65																			
	150-ton Pile Driver	8	180	0.62																			
	200-ton Crane	8	180	0.43																			
	30-50-ton Excavator	8	165	0.65																			
	Forklift	8	94	0.475																			
	Misc. Equipment (Generators, Compressors, Paving Equipment)	8	190	0.62																			
	Concrete Pump (Truck Mounted)	8	190	0.62																			
	Forklift	8	94	0.475																			
	Front-end Loader	8	165	0.65																			
Construction and Tennant Improvement	Misc. Equipment (Generators, Compressors, etc.)	8	190	0.62																			
	Tractor/loader/Backhoe	8	79	0.65																			
	Water Truck	8	190	0.43																			
	Bulldozer	8	352	0.59																			
	Grader	8	174	0.575																			
	Misc. Equipment (Generators, Compressors, Paving Equipment)	8	190	0.62																			
	Tractor/loader/Backhoe	8	79	0.65																			
	Water Truck	8	190	0.43																			
	24-CY Scraper	8	313	0.65																			
	8-CY Front-end Loader	8	165	0.65																			
	Bulldozer	8	352	0.59																			
	Graders	8	174	0.575																			
	Soil Compactor	8	190	0.62																			
Site Preparation (11 acre site)	Water Truck	4	190	0.43																			
	Concrete Pump (Truck Mounted)	8	190	0.62																			
	Water Truck	8	190	0.43																			
	Forklift	8	94	0.475																			
	Misc. Equipment (Generators, Compressors, Paving Equipment)	8	190	0.62																			
	Tractor/loader/Backhoe	8	79	0.65																			
	Water Truck	8	190	0.43																			
Grading (11 acre site)	Hollow Stem Drill Rig	8	218	0.75																			
	Tractor/loader/Backhoe	8	79	0.65																			
	Water Truck	8	190	0.43																			
Perimeter Vapor Probes	Tractor/loader/Backhoe	8	79	0.65																			
	Off-site Delivery Trucks (Roundtrips)	8	30	0.20																			
Off-site Truck Trips	Off-site Haul Trucks (Roundtrips)	8	20	0.20																			
	Worker Trips - Calculated Total	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14		
Worker Trips	Architectural Coatings - Commercial Square Footage per month	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		
	Architectural Coatings - Residential Square Footage per month	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		
Asphalt	Asphalt (aces per month)	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		
	Fugitive Dust (aces per day) - Max	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		
Fugitive Dust	Fugitive Dust (aces per day) - Normal	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		
	Fugitive Dust (aces per day) - Normal	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		





Carson Marketplace  
Construction Schedule  
RAP Refinement - Scenario 1  
(Peak)

Phase	Equipment/Name	4	5	6	7	8	9	10	11	12	1	2	3	4
Site Preparation	6-8 CY Front-end Loaders													
	Buildozer													
	Highway End Dump Trucks													
	Tracked Loader													
Deep Dynamic Compaction	Water Trucks													
	250-ton Crane													
	40-ton Off Highway Truck													
	8-12 Front-end Loaders													
Grading	Water Trucks													
	Buildozer	2												
	Front-end Loaders	2												
	Grader	2												
Remediation Construction	Scrapers	10												
	Sheepsfoot Soil Compactor	2												
	Water Trucks	1												
	15-20 CY Scrapers													
Utilities/Roads	30-50-ton Excavator													
	6-8 CY Front End Loaders													
	Hollow Stem Drill Rig													
	Small Road Grader													
	Tractor/Loader/Backhoe													
	Water Truck													
	200-ton Crane													
	30-50-ton Excavator													
	Concrete Pump (Truck Mounted)	1												
	Finish Grader	1												
Pile Driving	Misc Equipment (Generators, Compressors, Paving Equipment)	1												
	Tractor/Loader/Backhoe	1												
	150-ton Pile Driver	1												
	200-ton Crane	1												
Construction and Tenant Improvement	Misc Equipment (Generators, Compressors, etc.)	1												
	200-ton Crane	1												
	Concrete Pump (Truck Mounted)	2												
	Front-end Loader	1												
	Misc Equipment (Generators, Compressors, etc.)	1												
	Shovel Crane (Truck Mounted)	1												
	Tractor/Loader/Backhoe	1												
	Water Truck	3												
	Buildozer	3												
	Grader	1												
Grading (11 acre site)	Misc Equipment (Generators, Compressors, Paving Equipment)													
	Tractor/Loader/Backhoe													
	Water Truck													
	24-CY Scraper													
Construction (11 acre site)	Buildozer													
	Graders													
	Water Truck													
	Concrete Pump (Truck Mounted)	1												
Perimeter Vapor Probes	Flatbed Truck	2												
	Forklift	2												
	Misc Equipment (Generators, Compressors, Paving Equipment)	1												
	Tractor/Loader/Backhoe	2												
Off-site Truck Trips	Water Truck	3												
	Hollow Stem Drill Rig													
	Tractor/Loader/Backhoe	4												
	Offsite Delivery Trucks (Roundtrips)	1												
Worker Trips	Offsite Haul Trucks (Roundtrips)	1												
	Offsite Trash Trucks (Roundtrips)	1												
	Worker Trips - Calculated Total	276	242	242	242	253	253	178	128	98	75	64	64	64
	Architectural Coatings - Residential Square Footage per month	243000	210000	210000	210000	210000	243000	243000	243000	243000	243000	233000	200000	200000
Asphalt	Architectural Coatings - Commercial Square Footage per month	496000	496000	496000	496000	496000	496000	496000	496000	496000	496000	496000	496000	496000
	Architectural Coatings - Residential Square Footage per month	10	10	10	10	10	10	10	10	10	10	10	10	10
	Asphalt (Cores per month)	7												
	Asphalt (Cores per day) - Max	20000												
Fugitive Dust	Fugitive Dust (normal)													
	Fugitive Dust (1/3 per day) - Normal													

Carson Markkies  
Construction Schedule  
RAP Refinement - Scenario 2  
(Average)

Phase	Equipment Name	HP	Hours	Load	Year																		
					4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	2007			
Site Preparation	8 3 CY Front-end Loaders	8	185	0.465																			
	Bulldozer	8	352	0.59																			
	Highway End Dump Trucks																						
	Tracked Loader	8	255	0.41																			
	Water Trucks	8	190	0.43																			
	250-ton Crane	8	417	0.49																			
Deep Dynamic Compaction	40-ton Off Highway Truck	8	165	0.465																			
	8 CY Front-end Loaders	8	352	0.59																			
	Bulldozer	8	352	0.59																			
	Water Trucks	8	352	0.59																			
	Front-end Loaders	8	352	0.59																			
	Scrapers	8	313	0.56																			
Grading	Shreeves Soil Compactor	8	50	0.82																			
	Water Trucks	8	313	0.56																			
	15-20 CY Scrapers	8	180	0.58																			
	30-50-ton Excavator	8	165	0.465																			
	8 CY Front-End Loaders	8	218	0.75																			
	Hollow Stem Drill Rig	8	174	0.575																			
Remediation Construction	Small Road Grader	8	79	0.465																			
	Tractor/Loader/Backhoe	8	190	0.43																			
	Water Trucks	8	190	0.43																			
	200-ton Crane	8	190	0.43																			
	Concrete Pump (Truck Mounted)	8	190	0.52																			
	Wheel Grader (Generators, Compressors, Paving Equipment)	8	100	0.52																			
Pile Driving	Tractor/Loader/Backhoe	8	79	0.465																			
	150-ton Pile Driver	8	190	0.43																			
	200-ton Crane	8	180	0.58																			
	30-50-ton Excavator	8	94	0.475																			
	Forklift	8	190	0.62																			
	Misc Equipment (Generators, Compressors, etc.)	8	190	0.43																			
Construction and Tenant Improvement	200-ton Crane	8	190	0.43																			
	Concrete Pump (Truck Mounted)	8	190	0.62																			
	Forklift	8	94	0.475																			
	Front-end Loader	8	185	0.465																			
	Misc Equipment (Generators, Compressors, etc.)	8	190	0.52																			
	Shovel Cranes (Truck Mounted)	8	190	0.62																			
Site Preparation (11 acre site)	Tractor/Loader/Backhoe	8	79	0.465																			
	Water Truck	8	352	0.59																			
	Grader	8	174	0.575																			
	Misc Equipment (Generators, Compressors, Paving Equipment)	8	180	0.52																			
	Tractor/Loader/Backhoe	8	79	0.465																			
	Water Truck	8	190	0.43																			
Grading (11 acre site)	24-CY Scraper	8	313	0.86																			
	8 CY Front-end Loader	8	165	0.465																			
	Bulldozer	8	352	0.59																			
	Graders	8	174	0.575																			
	Soil Compactor	8	190	0.62																			
	Water Truck	8	190	0.43																			
Construction (11 acre site)	Concrete Pump (Truck Mounted)	8	190	0.62																			
	Earth Truck	8	190	0.62																			
	Misc Equipment (Generators, Compressors, Paving Equipment)	8	190	0.52																			
	Tractor/Loader/Backhoe	8	79	0.465																			
	Water Truck	8	218	0.75																			
	Tractor/Loader/Backhoe	8	79	0.465																			
Perimeter Vapor Probes	Hollow Stem Drill Rig	8	174	0.575																			
	Tractor/Loader/Backhoe	8	79	0.465																			
	Offsite Delivery Trucks (Roundtrips)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	Offsite Haul Trucks (Roundtrips)	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	
	Offsite Trash Trucks (Roundtrips)	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	
	Worker Trips - Calculated Total	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	
Worker Trips	Architectural Coatings - Commercial Square Footage per month																						
	Architectural Coatings - Residential Square Footage per month																						
	Asphalt (acres per month)	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	
	Fugitive Dust (acres per day) - Max	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	
	Fugitive Dust (acres per day) - Normal																						
	Fugitive Dust (yds per day) - Normal																						

Carson Marketplace  
Construction Schedule  
RAP Refinement - Scenario 2  
(Average)

Phase	Equipment Name	2003											
		1	2	3	4	5	6	7	8	9	10	11	12
Site Preparation	8-8 CY Front-end Loaders												
	Highway End Dump Trucks												
	Tracked Loader												
	Water Trucks												
	250-ton Crane	2	2	2	2	2	2	2	2	2	2	2	2
	40-ton Off Highway Truck	2	2	2	2	2	2	2	2	2	2	2	2
	8-CY Front-end Loaders	2	2	2	2	2	2	2	2	2	2	2	2
	Buildzer	1	1	1	1	1	1	1	1	1	1	1	1
	Blades	1	1	1	1	1	1	1	1	1	1	1	1
	Front-end Loaders	2	2	2	2	2	2	2	2	2	2	2	2
	Graders	2	2	2	2	2	2	2	2	2	2	2	2
Remediation Construction	Sheepfoot Soil Compactor	2	2	2	2	2	2	2	2	2	2	2	
	Water Trucks	10	10	10	10	10	10	10	10	10	10	10	10
	Scrapers	2	2	2	2	2	2	2	2	2	2	2	
	15-20 CY Scrapers	2	2	2	2	2	2	2	2	2	2	2	
	30-50-ton Excavator	2	2	2	2	2	2	2	2	2	2	2	
	6-8 CY Front End Loaders	1	1	1	1	1	1	1	1	1	1	1	
	Hollow Stem Drill Rig	2	2	2	2	2	2	2	2	2	2	2	
	Small Road Grader	1	1	1	1	1	1	1	1	1	1	1	
	Tractor/Loader/Backhoe	1	1	1	1	1	1	1	1	1	1	1	
	Misc Equipment (Generators, Compressors, etc.)	1	1	1	1	1	1	1	1	1	1	1	
	200-ton Crane	2	2	2	2	2	2	2	2	2	2	2	
Utilities/Roads	Concrete Pump (Truck Mounted)												
	Finish Grader	1	1	1	1	1	1	1	1	1	1	1	
	Misc Equipment (Generators, Compressors, Paving Equipment)	1	1	1	1	1	1	1	1	1	1	1	
	Tractor/Loader/Backhoe	1	1	1	1	1	1	1	1	1	1	1	
	150-ton Pile Driver	3	3	3	3	3	3	3	3	3	3	3	
	200-ton Crane	1	1	1	1	1	1	1	1	1	1	1	
	30-50-ton Excavator	2	2	2	2	2	2	2	2	2	2	2	
	Forklift	1	1	1	1	1	1	1	1	1	1	1	
	Misc Equipment (Generators, Compressors, etc.)	1	1	1	1	1	1	1	1	1	1	1	
	Concrete Pump (Truck Mounted)	1	1	1	1	1	1	1	1	1	1	1	
	Construction and Tennant Improvement	Forklift	1	1	1	1	1	1	1	1	1	1	1
Misc Equipment (Generators, Compressors, etc.)		1	1	1	1	1	1	1	1	1	1	1	
Tractor/Loader/Backhoe		1	1	1	1	1	1	1	1	1	1	1	
Water Truck		3	3	3	3	3	3	3	3	3	3	3	
24-CY Scraper		1	1	1	1	1	1	1	1	1	1	1	
8-CY Front-end Loader		1	1	1	1	1	1	1	1	1	1	1	
Buildzer		1	1	1	1	1	1	1	1	1	1	1	
Scrapers		1	1	1	1	1	1	1	1	1	1	1	
Water Truck		3	3	3	3	3	3	3	3	3	3	3	
Concrete Pump (Truck Mounted)		1	1	1	1	1	1	1	1	1	1	1	
Site Preparation (11 acre site)		Buildzer	1	1	1	1	1	1	1	1	1	1	1
	Grader	1	1	1	1	1	1	1	1	1	1	1	
	Misc Equipment (Generators, Compressors, Paving Equipment)	1	1	1	1	1	1	1	1	1	1	1	
	Tractor/Loader/Backhoe	1	1	1	1	1	1	1	1	1	1	1	
	Water Truck	3	3	3	3	3	3	3	3	3	3	3	
	24-CY Scraper	1	1	1	1	1	1	1	1	1	1	1	
	8-CY Front-end Loader	1	1	1	1	1	1	1	1	1	1	1	
	Buildzer	1	1	1	1	1	1	1	1	1	1	1	
	Scrapers	1	1	1	1	1	1	1	1	1	1	1	
	Water Truck	3	3	3	3	3	3	3	3	3	3	3	
	Grading (11 acre site)	Concrete Pump (Truck Mounted)	1	1	1	1	1	1	1	1	1	1	1
Finished Truck		2	2	2	2	2	2	2	2	2	2	2	
Forklift		2	2	2	2	2	2	2	2	2	2	2	
Misc Equipment (Generators, Compressors, Paving Equipment)		1	1	1	1	1	1	1	1	1	1	1	
Tractor/Loader/Backhoe		2	2	2	2	2	2	2	2	2	2	2	
Water Truck		3	3	3	3	3	3	3	3	3	3	3	
Hollow Stem Drill Rig		1	1	1	1	1	1	1	1	1	1	1	
Tractor/Loader/Backhoe		2	2	2	2	2	2	2	2	2	2	2	
Offsite Delivery Trucks (Roundtrips)		1	1	1	1	1	1	1	1	1	1	1	
Offsite Haul Trucks (Roundtrips)		1	1	1	1	1	1	1	1	1	1	1	
Worker Trips - Calculated Total		58	58	58	67	88	85	76	76	76	274	274	284
Construction (11 acre site)	Worker Trips - Calculated Total	58	58	58	67	88	85	76	76	76	274	274	284
	Architectural Coatings - Commercial Square Footage per month	24	24	24	24	24	24	24	24	24	24	24	24
	Architectural Coatings - Residential Square Footage per month	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
	Asphalt (acres per month)	6	6	6	6	6	6	6	6	6	6	6	6
	Engine Dust (acres per day)	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
	Engine Dust (acres per day) - Max	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
	Engine Dust (acres per day) - Normal	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
	Engine Dust (acres per day) - Normal	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
	Engine Dust (acres per day) - Normal	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
	Engine Dust (acres per day) - Normal	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
	Engine Dust (acres per day) - Normal	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5

Phase	Equipment/Name	4	5	6	7	8	9	10	11	12	1	2	3	4
Site Preparation	6-8 CY Front-end Loaders													
	Bulldozer													
	Highway End Dump Trucks													
	Tracked Loader													
Deep Dynamic Compaction	250-ton Crane													
	40-ton Off Highway Truck													
	8-CY Front-end Loaders													
	Bulldozer													
Grading	Water Trucks													
	Bulldozer	2												
	Front-end Loaders	2												
	Grader	2												
Remediation Construction	Scrapers	10												
	Scrapers/Soil Compactor	2												
	Water Trucks	1												
	15-20 CY Scrapers													
Utilities/Roads	30-50-ton Excavator													
	6-8 CY Front End Loaders													
	Hollow Stem Drill Rig													
	Small Road Grader													
Pile Driving	Tractor/Loader/Backhoe													
	Water Trucks													
	200-ton Crane	1												
	Concrete Pump (Truck Mounted)													
Construction and Tenant Improvement	Front Grader	1												
	Misc Equipment (Generators, Compressors Paving Equipment)	1												
	Misc Equipment (Backhoe)	1												
	150-ton Pile Driver													
Construction and Tenant Improvement	200-ton Crane													
	Forklift	1												
	Misc Equipment (Generators, Compressors etc.)	1												
	Concrete Pump (Truck Mounted)	2												
Grading (11 acre site)	Front-end Loader	1												
	Misc Equipment (Generators, Compressors etc.)	1												
	Slinger Crane (Truck Mounted)	1												
	Tractor/Loader/Backhoe	1												
Construction (11 acre site)	Water Truck	3												
	Bulldozer													
	Grader													
	Misc Equipment (Generators, Compressors Paving Equipment)													
Construction (11 acre site)	Water Truck													
	24-CY Scraper													
	8-CY Front-end Loader													
	Bulldozer													
Construction (11 acre site)	Graders													
	Soil Compactor													
	Concrete Pump (Truck Mounted)	1												
	Water Truck	2												
Perimeter Vapor Probes	Front-end Loader	2												
	Forklift	2												
	Misc Equipment (Generators, Compressors Paving Equipment)	1												
	Tractor/Loader/Backhoe	3												
Off-site Truck Trips	Water Truck	3												
	Hollow Stem Drill Rig													
	Tractor/Loader/Backhoe	4												
	Offsite Delivery Trucks (Roundtrips)	1												
Worker Trips	Offsite Haul Trucks (Roundtrips)	1												
	Offsite Trash Trucks (Roundtrips)	1												
	Worker Trips - Calculated Total	276	242	242	242	253	253	128	128	86	75	64	64	64
	Architectural Coatings - Commercial Square Footage per month	243000	210000	210000	210000	210000	210000	243000	243000	243000	243000	200000	200000	200000
Asphalt	Architectural Coatings - Residential Square Footage per month	498000	488000	498000	498000	498000	498000	498000	498000	498000	498000	498000	498000	498000
	Asphalt (acres per month)	10	10	10	10	10	10	10	10	10	10	10	10	10
	Fugitive Dust (acres per day) - Max													
	Fugitive Dust (acres per day) - Normal	12.5												
Fugitive Dust	Fugitive Dust (t/yd3 per day) - Normal	20000												

Construction Emissions Note:

All construction emissions schedules (on-site / off-site summary, detailed emissions) are presented in worst-case pounds per day.

Highlighted/shaded cells represent occurrences of maximum emissions over the project duration.

Onsite/Offsite	Pollutant	EmissionType	2006												2007											
			4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12			
Onsite	CO	Construction/Equipment	88.91	88.91	88.91	88.91	88.91	88.91	88.91	88.91	88.91	88.91	88.91	88.91	88.91	88.91	88.91	88.91	88.91	88.91	88.91	88.91				
	NOx	Construction/Equipment	91.90	91.90	91.90	91.90	91.90	91.90	91.90	91.90	91.90	91.90	91.90	91.90	91.90	91.90	91.90	91.90	91.90	91.90	91.90	91.90				
	PM10	Construction/Equipment	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84				
	ROG	Fugitive PM10	66.85	66.85	66.85	66.85	66.85	66.85	66.85	66.85	66.85	66.85	66.85	66.85	66.85	66.85	66.85	66.85	66.85	66.85	66.85	66.85				
		Construction/Equipment	11.98	11.98	11.98	11.98	11.98	11.98	11.98	11.98	11.98	11.98	11.98	11.98	11.98	11.98	11.98	11.98	11.98	11.98	11.98	11.98				
		Fugitive ROG	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02				
		Construction/Equipment	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77				
		CO	Mobile/Construction	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80				
		NOx	Mobile/Construction	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07				
		PM10	Mobile/Construction	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02				
	ROG	Mobile/Construction	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11					
	SOx	Mobile/Construction	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01				
		Mobile/Worker	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01				
Offsite	CO	Construction/Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
	NOx	Construction/Equipment	51.08	51.08	51.08	51.08	51.08	51.08	51.08	51.08	51.08	51.08	51.08	51.08	51.08	51.08	51.08	51.08	51.08	51.08	51.08	51.08				
	PM10	Construction/Equipment	19.49	19.49	19.49	19.49	19.49	19.49	19.49	19.49	19.49	19.49	19.49	19.49	19.49	19.49	19.49	19.49	19.49	19.49	19.49	19.49				
	ROG	Construction/Equipment	322.71	322.71	322.71	322.71	322.71	322.71	322.71	322.71	322.71	322.71	322.71	322.71	322.71	322.71	322.71	322.71	322.71	322.71	322.71	322.71				
		Mobile/Construction	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18				
		Mobile/Worker	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83				
		SOx	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13			
		CO	Mobile/Construction	11.25	11.25	11.25	11.25	11.25	11.25	11.25	11.25	11.25	11.25	11.25	11.25	11.25	11.25	11.25	11.25	11.25	11.25	11.25	11.25			
		NOx	Mobile/Construction	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21			
		PM10	Mobile/Construction	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41			

Onsite/Offsite	Pollutant	EmissionType	2008												2009											
			1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9			
Onsite	CO	Construction/Equipment	978.92	978.92	978.92	1043.40	1204.01	1259.91	1194.43	1194.43	1194.43	1207.92	1207.92	939.66	823.35	823.35	823.35	205.26	205.26	205.26	197.00	197.00				
	NOx	Construction/Equipment	738.79	738.79	738.79	796.48	937.76	985.38	927.69	927.69	927.69	941.61	941.61	720.33	628.87	628.87	628.87	172.93	172.93	172.93	165.78	165.78				
	PM10	Construction/Equipment	5.57	5.57	5.57	6.06	7.24	7.63	7.15	7.15	7.15	7.22	7.22	5.44	4.77	4.77	4.77	1.42	1.42	1.42	1.36	1.36				
	ROG	Fugitive PM10	1315.50	1315.50	1315.50	1372.80	1372.80	1372.80	1372.80	1372.80	1372.80	1372.80	1372.80	1315.50	1197.50	1197.50	1197.50	25.55	25.55	25.55	24.51	24.51				
Offsite	CO	Construction/Equipment	117.28	117.28	117.28	125.51	145.78	152.70	144.48	144.48	144.48	144.48	146.37	146.37	113.31	99.09	99.09	99.09	1510.07	1510.07	1510.07	1483.87	1483.87			
		Fugitive ROG	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00			
	NOx	MobileConstruction	47.63	47.63	47.63	47.63	47.63	47.63	47.63	47.63	47.63	47.63	47.63	47.63	47.63	47.63	47.63	47.63	1.24	1.24	1.24	1.83	1.83			
		MobileWorker	27.84	27.84	27.84	32.09	42.00	45.30	41.06	41.06	41.06	41.06	41.10	41.10	126.72	127.15	122.38	122.38	108.06	108.06	108.06	112.83	112.83			
	PM10	MobileConstruction	295.78	295.78	295.78	295.78	295.78	295.78	295.78	295.78	295.78	295.78	295.78	295.78	295.78	295.78	295.78	295.78	4.98	4.98	4.98	5.84	5.84			
		MobileWorker	2.94	2.94	2.94	3.39	4.43	4.78	4.33	4.33	4.33	4.33	4.33	4.33	13.29	13.34	12.84	12.84	11.33	11.33	11.33	11.84	11.84			
	ROG	MobileConstruction	0.19	0.19	0.19	0.22	0.29	0.31	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.09	0.09	0.09	0.11	0.11			
		MobileWorker	10.46	10.46	10.46	10.46	10.46	10.46	10.46	10.46	10.46	10.46	10.46	10.46	10.46	10.46	10.46	10.46	0.80	0.80	0.80	0.84	0.84			
	SOx	MobileConstruction	3.01	3.01	3.01	3.47	4.55	4.80	4.44	4.44	4.44	4.44	4.44	4.44	16.19	16.19	15.27	15.27	13.77	13.77	13.77	12.26	12.26			
		MobileWorker	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.01	0.01	0.01	0.01	0.01			
		MobileWorker	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.11	0.11	0.11	0.11	0.09	0.09	0.09	0.09	0.09			



Onsite/Offsite	Pollutant	EmissionType	2010												Max (lbs/day)	Average (lbs/day)	
			10	11	12	1	2	3	4	5	6	7	8	9			
Onsite	CO	ConstructionEquipment	197.00	176.36	176.36	118.28	118.28	86.64	86.64	86.64	86.64	86.64	86.64	29.10	29.10	1272.45	
	NOx	ConstructionEquipment	165.78	147.91	147.91	89.37	89.37	65.90	65.90	65.90	65.90	65.90	65.90	22.31	22.31	995.96	
	PM10	ConstructionEquipment	1.36	1.21	1.21	0.65	0.65	0.48	0.48	0.48	0.48	0.48	0.48	0.17	0.17	7.69	2.91
	ROG	Fugitive PM10	24.51	21.91	21.91	14.23	14.23	10.44	10.44	10.44	10.44	10.44	10.44	3.51	3.51	1372.80	
Offsite	SOx	Fugitive ROG	801.47	631.19	631.19	391.86	336.36	336.36								1565.57	
	CO	ConstructionEquipment	0.00	0.00	0.00	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0.87	0.87	51.41	
	NOx	MobileConstruction	58.58	45.57	40.79	28.27	28.27	2.79	2.79	2.79	2.79	2.79	2.79	2.79	2.79	149.60	
	NOx	MobileWorker	5.84	5.84	5.84	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	2.84	2.84	324.85	
	PM10	MobileConstruction	6.15	4.78	4.28	2.95	2.95	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	15.79	
	PM10	MobileWorker	0.44	0.11	0.11	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.06	0.06	5.87	
	ROG	MobileConstruction	0.33	0.33	0.33	0.23	0.23	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	1.02	
	ROG	MobileWorker	0.33	0.33	0.33	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.16	0.16	11.32	
	SOx	MobileConstruction	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.42	
	SOx	MobileWorker	0.05	0.04	0.03	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	

Onsite/Offsite	Pollutant	Emission Type	2006												2007											
			4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12			
Onsite	CO	Construction/Equipment	84.50	84.50	84.50	84.50	84.50	84.50	84.50	84.50	84.50	84.50	84.50	84.50	84.50	84.50	84.50	84.50	84.50	84.50	84.50	84.50				
	NOx	Construction/Equipment	87.41	87.41	87.41	87.41	87.41	87.41	87.41	87.41	87.41	87.41	87.41	87.41	87.41	87.41	87.41	87.41	87.41	87.41	87.41	87.41				
	PM10	Construction/Equipment	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80				
	PM10	Fugitive PM10	45.46	45.46	45.46	45.46	45.46	45.46	45.46	45.46	45.46	45.46	45.46	45.46	45.46	45.46	45.46	45.46	45.46	45.46	45.46	45.46				
	ROG	Construction/Equipment	11.39	11.39	11.39	11.39	11.39	11.39	11.39	11.39	11.39	11.39	11.39	11.39	11.39	11.39	11.39	11.39	11.39	11.39	11.39	11.39				
	ROG	Fugitive ROG	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02				
	Offsite	CO	Mobile/Construction	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77			
		CO	Mobile/Worker	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80			
		NOx	Mobile/Construction	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07			
		NOx	Mobile/Worker	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83			
		PM10	Mobile/Construction	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02			
		PM10	Mobile/Worker	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04			
ROG		Mobile/Construction	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11				
ROG		Mobile/Worker	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84				
SOx		Mobile/Construction	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01				
SOx		Mobile/Worker	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01				

Onsite/Offsite	Pollutant	Emission Type	2008												2009											
			1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10		
Onsite	CO	Construction/Equipment	929.98	929.98	929.98	991.26	1143.91	1196.06	1134.79	1134.79	1134.79	1134.79	1140.01	1147.57	1147.57	892.73	782.23	782.23	782.23	782.23	195.04	195.04	187.19	187.19		
	NOx	Construction/Equipment	701.86	701.86	701.86	756.71	881.12	936.36	881.51	881.51	881.51	881.51	887.54	894.70	894.70	684.47	597.58	597.58	597.58	597.58	164.43	164.43	157.64	157.64		
	PM10	Construction/Equipment	5.29	5.29	5.29	5.75	6.89	7.25	6.79	6.79	6.79	6.79	6.80	6.87	6.87	5.17	4.54	4.54	4.54	4.54	1.35	1.35	1.28	1.28		
	PM10	Fugitive PM10	894.54	894.54	894.54	933.50	933.50	933.50	933.50	933.50	933.50	933.50	933.50	933.50	933.50	933.50	814.30	814.30	814.30	814.30	24.28	24.28	23.29	23.29		
Offsite	ROG	Construction/Equipment	111.42	111.42	111.42	119.24	138.50	145.08	137.27	137.27	137.27	137.27	138.08	139.06	139.06	107.65	94.14	94.14	94.14	94.14	1510.07	1510.07	1483.87	1483.87		
	ROG	Fugitive ROG	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00		
	SOx	Construction/Equipment	47.63	47.63	47.63	47.63	47.63	47.63	47.63	47.63	47.63	47.63	47.63	47.63	47.63	47.63	47.63	47.63	47.63	47.63	1510.07	1510.07	1510.07	1510.07		
	SOx	Mobile/Construction	27.84	27.84	27.84	32.09	42.00	45.30	41.06	41.06	41.06	41.06	41.10	41.10	41.10	41.10	126.72	127.15	127.15	127.15	108.06	108.06	112.83	112.83		
Offsite	NOx	Mobile/Construction	295.78	295.78	295.78	295.78	295.78	295.78	295.78	295.78	295.78	295.78	295.78	295.78	295.78	295.78	295.78	295.78	295.78	295.78	108.06	108.06	112.83	112.83		
	NOx	Mobile/Worker	2.94	2.94	2.94	3.39	4.43	4.78	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.98	4.98	5.84	5.84		
	PM10	Mobile/Construction	5.45	5.45	5.45	5.45	5.45	5.45	5.45	5.45	5.45	5.45	5.45	5.45	5.45	5.45	5.45	5.45	5.45	5.45	11.33	11.33	11.84	11.84		
	PM10	Mobile/Worker	0.19	0.19	0.19	0.22	0.29	0.31	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.09	0.09	0.11	0.11		
Offsite	ROG	Mobile/Construction	10.46	10.46	10.46	10.46	10.46	10.46	10.46	10.46	10.46	10.46	10.46	10.46	10.46	10.46	10.46	10.46	10.46	10.46	11.74	11.74	12.26	12.26		
	ROG	Mobile/Worker	3.01	3.01	3.01	3.47	4.55	4.90	4.44	4.44	4.44	4.44	4.44	4.44	4.44	4.44	4.44	4.44	4.44	4.44	5.84	5.84	6.15	6.15		
	SOx	Mobile/Construction	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.01	0.01	0.01	0.01		
	SOx	Mobile/Worker	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.09	0.09	0.09	0.09		

Carson Marketplace  
Onsite/Offsite Emission Summary

Onsite/Offsite	Pollutant	EmissionType	2010												Max (lbs/day)	Average (lbs/day)
			11	12	1	2	3	4	5	6	7	8	9			
Onsite	CO	ConstructionEquipment	167.58	157.58	112.37	112.37	82.31	82.31	82.31	82.31	82.31	82.31	27.64	27.64	1208.90	
	NOx	ConstructionEquipment	140.67	140.67	84.90	84.90	62.61	62.61	62.61	62.61	62.61	62.61	21.20	21.20	946.37	
	PM10	ConstructionEquipment	1.15	1.15	0.92	0.62	0.46	0.46	0.46	0.46	0.46	0.46	0.16	0.16	7.31	2.77
	ROG	Fugitive PM10														933.50
Offsite	CO	ConstructionEquipment	20.82	20.82	13.52	13.52	9.92	9.92	9.92	9.92	9.92	9.92	3.34	3.34	146.67	
	NOx	Fugitive ROG	631.19	631.19	391.86	336.36									1565.57	
	PM10	ConstructionEquipment	0.00	0.00											0.02	
	NOx	MobileConstruction	1.83	1.83	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0.87	0.87	51.41	
	NOx	MobileWorker	45.57	40.79	28.27	28.27	2.79	2.79	2.79	2.79	2.79	2.79	2.79	2.79	149.00	
	NOx	MobileConstruction	5.84	5.84	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	2.84	2.84	324.85	
	NOx	MobileWorker	4.78	4.28	2.95	2.95	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	15.79	
	PM10	MobileConstruction	0.11	0.11	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.06	0.06	5.87	
	PM10	MobileWorker	0.34	0.30	0.23	0.23	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	1.02	
	ROG	MobileConstruction	0.33	0.33	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.16	0.16	11.32	
SOx	MobileWorker	4.95	4.43	3.09	3.09	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	16.19		
	MobileConstruction	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.42	
	MobileWorker	0.04	0.03	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	

Onsite/Offsite	Pollutant	Emission Type	2006												2007											
			Year Month	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12		
Onsite	CO	Construction/Equipment	88.91	88.91	88.91	88.91	88.91	88.91	88.91	88.91	88.91	88.91	88.91	88.91	88.91	88.91	88.91	88.91	88.91	88.91	88.91	88.91	88.91			
	NOx	Construction/Equipment	91.90	91.90	91.90	91.90	91.90	91.90	91.90	91.90	91.90	91.90	91.90	91.90	91.90	91.90	91.90	91.90	91.90	91.90	91.90	91.90	91.90			
	PM10	Construction/Equipment	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84			
	ROG	Fugitive PM10	119.38	119.38	119.38	119.38	119.38	119.38	119.38	119.38	119.38	119.38	119.38	119.38	119.38	119.38	119.38	119.38	119.38	119.38	119.38	119.38	119.38			
Offsite	SOx	Construction/Equipment	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02			
	CO	Mobile/Construction	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77			
	NOx	Mobile/Worker	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80			
	PM10	Mobile/Construction	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02			
	ROG	Mobile/Worker	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04			
	SOx	Mobile/Construction	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01			
		Mobile/Worker	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01			
		Mobile/Construction	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01			

Carson Marketplace  
Onsite/Offsite Emission Summary

Onsite/Offsite Pollutant	2008												2009											
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
Onsite																								
CO	978.92	978.92	978.92	1043.40	1204.01	1258.91	1194.43	1194.43	1272.45	1199.95	1207.92	1207.92	939.66	823.35	823.35	823.35	205.26	205.26	205.26	197.00	197.00	197.00	176.36	176.36
NOx	738.79	738.79	738.79	796.48	937.76	985.36	927.69	927.69	985.96	934.06	941.61	941.61	720.33	628.87	628.87	628.87	172.93	172.93	172.93	165.78	165.78	165.78	147.91	147.91
PM10	5.57	5.57	5.57	6.06	7.24	7.63	7.15	7.15	7.93	7.16	7.22	7.22	5.44	4.77	4.77	4.77	1.42	1.42	1.42	1.36	1.36	1.36	1.21	1.21
ROG	1329.25	1329.25	1329.25	1383.55	1389.59	1386.56	1389.55	1389.55	1386.56	1329.25	1329.25	1329.25	1211.25	1211.25	1211.25	1211.25	106.06	106.06	106.06	106.06	106.06	106.06	90.79	90.79
	117.28	117.28	117.28	125.51	145.78	152.70	144.48	144.48	154.38	145.33	146.37	146.37	113.31	99.09	99.09	99.09	25.55	25.55	25.55	24.51	24.51	24.51	21.91	21.91
SOx	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CO	47.63	47.63	47.63	47.63	47.63	47.63	47.63	47.63	47.63	47.63	47.63	47.63	126.72	127.15	122.38	122.38	106.06	106.06	106.06	112.83	112.83	112.83	98.57	98.57
NOx	27.84	27.84	27.84	32.09	42.00	45.30	41.06	41.06	49.60	41.10	41.10	41.10	4.12	4.98	4.98	4.98	4.98	4.98	4.98	5.84	5.84	5.84	5.84	5.84
PM10	2.94	2.94	2.94	3.39	4.43	4.78	4.33	4.33	5.79	4.89	4.89	4.89	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.11	0.11	0.11	0.11	0.11
ROG	0.19	0.19	0.19	0.22	0.29	0.31	0.28	0.28	0.35	0.35	0.35	0.35	0.15	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
SOx	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Offsite																								
CO	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.11	0.11	0.11	0.11	0.11	0.11	0.10	0.10	0.09	0.09	0.09	0.09	0.09	0.05	0.04	0.03
NOx	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PM10	0.19	0.19	0.19	0.22	0.29	0.31	0.28	0.28	0.35	0.35	0.35	0.35	0.15	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
ROG	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
SOx	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.11	0.11	0.11	0.11	0.11	0.11	0.10	0.10	0.09	0.09	0.09	0.09	0.09	0.05	0.04	0.03

Onsite/Offsite Pollutant	2010										Max (lbs/day)	Average (lbs/day)
	1	2	3	4	5	6	7	8	9			
Onsite	CO	118.28	118.28	86.64	86.64	86.64	86.64	29.10	29.10	29.10	1272.45	
	NOx	89.37	89.37	65.90	65.90	65.90	65.90	22.31	22.31	22.31	985.96	
	PM10	0.65	0.65	0.48	0.48	0.48	0.48	0.17	0.17	0.17	7.89	2.91
Offsite	CO	14.23	14.23	10.44	10.44	10.44	10.44	3.51	3.51	3.51	154.38	
	NOx	391.86	391.86	336.36	336.36						1565.57	
	PM10	1.13	1.13	1.13	1.13	1.13	1.13	0.87	0.87	0.87	51.41	0.02
Offsite	CO	28.27	28.27	2.79	2.79	2.79	2.79	2.79	2.79	2.79	149.60	
	NOx	4.39	4.39	4.39	4.39	4.39	4.39	2.84	2.84	2.84	324.65	
	PM10	2.95	2.95	0.29	0.29	0.29	0.29	0.09	0.09	0.09	5.87	
Offsite	CO	0.23	0.23	0.02	0.02	0.02	0.02	0.02	0.02	0.02	1.02	
	NOx	0.22	0.22	0.22	0.22	0.22	0.22	0.16	0.16	0.16	11.32	
	PM10	3.09	3.09	0.30	0.30	0.30	0.30	0.30	0.30	0.30	16.19	
Offsite	CO	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.42	
	NOx	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	
	PM10											

Onsite/Offsite	Pollutant	EmissionType	2006												2007						2008						
			4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12				
Onsite	CO	Construction/Equipment	84.50	84.50	84.50	84.50	84.50	84.50	84.50	84.50	84.50	84.50	84.50	84.50	84.50	84.50	453.82	453.82	453.82	453.82	453.82	453.82	366.94	366.94	366.94	1063.71	
	NOx	Construction/Equipment	87.41	87.41	87.41	87.41	87.41	87.41	87.41	87.41	87.41	87.41	87.41	87.41	87.41	87.41	323.57	323.57	323.57	323.57	323.57	323.57	271.69	271.69	271.69	871.96	
	PM10	Construction/Equipment	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	2.56	2.56	2.56	2.56	2.56	2.56	2.01	2.01	2.01	6.38	
	SOx	Fugitive PM10	81.18	81.18	81.18	81.18	81.18	81.18	81.18	81.18	81.18	81.18	81.18	81.18	81.18	81.18	81.18	61.18	61.18	61.18	61.18	61.18	61.18	61.18	61.18	61.18	61.18
	CO	Construction/Equipment	11.39	11.39	11.39	11.39	11.39	11.39	11.39	11.39	11.39	11.39	11.39	11.39	11.39	11.39	11.39	49.61	49.61	49.61	49.61	49.61	49.61	43.70	43.70	43.70	127.08
Offsite	SOx	Fugitive ROG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	CO	Construction/Equipment	7.77	7.77	7.77	7.77	7.77	7.77	7.77	7.77	7.77	7.77	7.77	7.77	7.77	7.77	10.48	10.48	10.48	10.48	10.48	10.48	10.48	10.48	10.48	10.48	10.48
	NOx	Mobile/Worker	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
	PM10	Mobile/Worker	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
	ROG	Mobile/Worker	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Offsite	CO	Mobile/Worker	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
	NOx	Mobile/Worker	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
	PM10	Mobile/Worker	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
	SOx	Mobile/Worker	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
	CO	Mobile/Worker	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01



Onsite/Offsite	Pollutant	EmissionType	2008												2009											
			1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
Onsite	CO	Construction/Equipment	929.88	929.88	929.88	929.88	929.88	929.88	929.88	929.88	929.88	929.88	929.88	929.88	929.88	929.88	929.88	929.88	929.88	929.88	929.88	929.88	929.88	929.88	929.88	929.88
	NOx	Construction/Equipment	701.86	701.86	701.86	701.86	701.86	701.86	701.86	701.86	701.86	701.86	701.86	701.86	701.86	701.86	701.86	701.86	701.86	701.86	701.86	701.86	701.86	701.86	701.86	701.86
	PM10	Construction/Equipment	5.28	5.28	5.28	5.28	5.28	5.28	5.28	5.28	5.28	5.28	5.28	5.28	5.28	5.28	5.28	5.28	5.28	5.28	5.28	5.28	5.28	5.28	5.28	5.28
	PM10	Fugitive PM10	903.89	903.89	903.89	903.89	903.89	903.89	903.89	903.89	903.89	903.89	903.89	903.89	903.89	903.89	903.89	903.89	903.89	903.89	903.89	903.89	903.89	903.89	903.89	903.89
	ROG	Construction/Equipment	111.42	111.42	111.42	111.42	111.42	111.42	111.42	111.42	111.42	111.42	111.42	111.42	111.42	111.42	111.42	111.42	111.42	111.42	111.42	111.42	111.42	111.42	111.42	111.42
	SOx	Fugitive ROG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	SOx	Construction/Equipment	47.63	47.63	47.63	47.63	47.63	47.63	47.63	47.63	47.63	47.63	47.63	47.63	47.63	47.63	47.63	47.63	47.63	47.63	47.63	47.63	47.63	47.63	47.63	47.63
	CO	Mobile/Construction	27.84	27.84	27.84	27.84	27.84	27.84	27.84	27.84	27.84	27.84	27.84	27.84	27.84	27.84	27.84	27.84	27.84	27.84	27.84	27.84	27.84	27.84	27.84	27.84
	NOx	Mobile/Construction	295.78	295.78	295.78	295.78	295.78	295.78	295.78	295.78	295.78	295.78	295.78	295.78	295.78	295.78	295.78	295.78	295.78	295.78	295.78	295.78	295.78	295.78	295.78	295.78
	PM10	Mobile/Construction	5.45	5.45	5.45	5.45	5.45	5.45	5.45	5.45	5.45	5.45	5.45	5.45	5.45	5.45	5.45	5.45	5.45	5.45	5.45	5.45	5.45	5.45	5.45	5.45
	ROG	Mobile/Construction	10.46	10.46	10.46	10.46	10.46	10.46	10.46	10.46	10.46	10.46	10.46	10.46	10.46	10.46	10.46	10.46	10.46	10.46	10.46	10.46	10.46	10.46	10.46	10.46
	SOx	Mobile/Construction	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42
SOx	Mobile/Worker	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	

Onsite/Offsite	Pollutant	Emission Type	2010										Max (lbs/day)	Average (lbs/day)		
			1	2	3	4	5	6	7	8	9					
Onsite	CO	Construction/Equipment	112.37	112.37	82.31	82.31	82.31	82.31	82.31	82.31	82.31	82.31	27.64	27.64	1208.90	
	NOx	Construction/Equipment	84.90	84.90	62.61	62.61	62.61	62.61	62.61	62.61	62.61	62.61	21.20	21.20	946.37	
	PM10	Construction/Equipment	0.62	0.62	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.16	0.16	942.85	
	ROG	Construction/Equipment	13.52	13.52	9.92	9.92	9.92	9.92	9.92	9.92	9.92	9.92	3.34	3.34	146.57	
Offsite	SOx	Fugitive ROG	397.86	397.86	397.86										0.02	
	CO	Construction/Equipment	113	113	113	113	113	113	113	113	113	113	0.87	0.87	51.41	
		Mobile/Construction	28.27	28.27	279	279	279	279	279	279	279	279	2.79	2.79	149.60	
	NOx	Mobile/Construction	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	2.84	2.84	324.85	
		Mobile/Worker	2.95	2.95	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	15.79	
	PM10	Mobile/Construction	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.06	0.06	5.87	
		Mobile/Worker	0.23	0.23	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	1.02	
	ROG	Mobile/Construction	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.16	0.16	11.32	
		Mobile/Worker	3.69	3.69	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	16.19	
	SOx	Mobile/Construction	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.42
		Mobile/Worker	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	

Onsite/Offsite	Pollutant	EmissionType	2006												2007														
			Year	Month	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7						
Onsite	CO	ConstructionEquipment																											
	NOx	ConstructionEquipment																											
	PM10	ConstructionEquipment																											
	ROG	Fugitive PM10																											
Offsite	SOx	ConstructionEquipment																											
	CO	MobileConstruction																											
	NOx	MobileWorker																											
		MobileConstruction																											
	PM10	MobileWorker																											
		MobileConstruction																											
	ROG	MobileWorker																											
		MobileConstruction																											
	SOx	MobileConstruction																											
		MobileWorker																											

Onsite/Offsite	Pollutant	2008																			
		8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	
Onsite	CO	309.95	309.95	309.95	309.95	421.69	852.49	852.49	852.49	916.96	1077.57	1004.64	940.17	940.17	1018.66	772.11	780.08	780.08	780.08	760.97	684.39
	NOx	230.59	230.59	230.59	230.59	328.73	644.27	644.27	644.27	701.97	843.24	794.29	736.60	736.60	805.57	620.26	627.80	627.80	627.80	587.52	529.21
	PM10	1.68	1.68	1.68	1.68	2.45	4.77	4.77	4.77	5.25	6.34	6.14	5.66	5.66	6.21	4.86	4.93	4.93	4.93	4.44	4.04
	ROG	66.85	66.85	66.85	66.85	66.85	1197.50	1197.50	1197.50	1294.80	1294.80	1294.80	1294.80	1294.80	1294.80	1197.50	1197.50	1197.50	1197.50	1197.50	1197.50
	SOx	37.04	37.04	37.04	37.04	51.26	102.37	102.37	102.37	110.60	136.86	122.39	114.16	114.16	124.14	94.64	95.58	95.58	95.58	92.03	82.75
Offsite	CO	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
	NOx	1.40	1.40	1.40	1.40	1.73	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.99	1.99	1.99	1.99	1.83	1.83
	PM10	12.31	12.31	12.31	12.31	17.44	27.37	27.37	27.37	31.62	41.53	40.11	35.87	35.87	35.87	35.87	35.87	35.87	35.87	35.87	35.87
	ROG	2.00	2.00	2.00	2.00	4.14	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80
	SOx	1.31	1.31	1.31	1.31	1.85	2.89	2.89	2.89	3.34	4.38	4.23	3.78	3.78	3.78	3.78	3.78	3.78	3.78	3.78	3.78
		0.04	0.04	0.04	0.04	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.12	0.12	0.12	0.12	0.11	0.11
		0.08	0.08	0.08	0.08	0.11	0.19	0.19	0.22	0.28	0.27	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
		0.21	0.21	0.21	0.21	0.28	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
		1.33	1.33	1.33	1.33	1.88	2.96	2.96	3.42	4.50	4.34	3.88	3.88	3.88	3.88	3.88	3.88	3.88	3.88	3.88	3.88
		0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
		0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

Carson Marketplace  
Onsite/Offsite Emission Summary

Onsite/Offsite	Pollutant	2009												2010				Max (lbs/day)	Average (lbs/day)
		3	4	5	6	7	8	9	10	11	12	1	2	3	4				
Onsite	CO	684.39	684.39	149.45	149.45	149.45	141.19	141.19	141.19	141.19	120.55	120.55	61.13	61.13	29.49	29.49	1077.57		
	NOx	529.21	529.21	128.01	128.01	128.01	120.86	120.86	120.86	103.00	103.00	46.35	46.35	22.89	22.89	843.24			
	PM10	4.04	4.04	1.07	1.07	1.07	1.01	1.01	1.01	0.86	0.86	0.34	0.34	0.18	0.18	6.44	2.30		
		1197.50	1197.50														1254.80		
Offsite	ROG	82.75	82.75	18.69	18.69	18.69	17.65	17.65	17.65	15.05	15.05	7.37	7.37	3.58	3.58	130.86			
	CO	1510.07	1510.07	1510.07	1510.07	1510.07	1483.87	1483.87	1539.37	1539.37	801.47	801.47	391.86	391.86	336.36	336.36	1565.57		
	SOx	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.02		
	CO	2.41	2.41	1.24	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.13	1.13	1.13	1.13	1.13	2.41		
	NOx	124.55	119.77	105.02	105.02	105.02	109.79	109.79	109.79	55.55	55.55	42.53	29.86	25.48	25.48	129.31			
	NOx	13.06	12.56	11.02	11.02	11.02	11.52	11.52	11.52	5.84	5.84	5.84	4.39	4.39	4.39	6.70			
	PM10	0.13	0.13	0.09	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.09	0.09	0.09	0.13			
	PM10	0.93	0.89	0.78	0.78	0.78	0.82	0.82	0.82	0.41	0.41	0.32	0.24	0.21	0.21	0.95			
	ROG	0.82	0.82	0.24	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.22	0.22	0.22	0.42			
	SOx	13.53	13.02	11.41	11.41	11.41	11.93	11.93	11.93	6.04	6.04	4.62	3.26	2.78	2.78	14.00			
	0.10	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.05	0.05	0.04	0.03	0.02	0.02	0.11				

Onsite/Offsite	Pollutant	EmissionType	2006												2007									
			Year	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7		
			Month																					
Onsite	CO	ConstructionEquipment		84.50	84.50	84.50	84.50	84.50	84.50	84.50	84.50	84.50	84.50	84.50	84.50	84.50	84.50	84.50	84.50	84.50	84.50	84.50	84.50	84.50
	NOx	ConstructionEquipment		87.41	87.41	87.41	87.41	87.41	87.41	87.41	87.41	87.41	87.41	87.41	87.41	87.41	87.41	87.41	87.41	87.41	87.41	87.41	87.41	87.41
	PM10	ConstructionEquipment		0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
	ROG	Fugitive ROG		45.46	45.46	45.46	45.46	45.46	45.46	45.46	45.46	45.46	45.46	45.46	45.46	45.46	45.46	45.46	45.46	45.46	45.46	45.46	45.46	45.46
Offsite	SOx	ConstructionEquipment		0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
	CO	MobileConstruction		0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77
		MobileWorker		7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80
	NOx	MobileConstruction		1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07
		MobileWorker		0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
	PM10	MobileConstruction		0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		MobileWorker		0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
	ROG	MobileConstruction		0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
		MobileWorker		0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
	SOx	MobileConstruction		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		MobileWorker		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

Carson Marketplace  
Onsite/Offsite Emission Summary

RAP Refinement - Scenario 1 (Peak)  
Mitigated

Onsite/Offsite	Pollutant	2008																		
		8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2
Onsite	CO	294.48	294.48	294.48	294.48	400.63	809.89	809.89	809.89	871.17	1023.62	954.53	893.25	893.25	967.84	733.58	741.15	741.15	722.99	650.24
	NOx	219.09	219.09	219.09	219.09	312.34	612.10	612.10	612.10	666.95	803.36	754.85	700.00	700.00	765.56	589.46	596.63	596.63	558.33	502.94
	PM10	1.59	1.59	1.59	1.59	2.33	4.53	4.53	4.53	4.99	6.12	5.84	5.38	5.38	5.90	4.62	4.68	4.68	4.22	3.84
	ROG	45.46	45.46	45.46	45.46	45.46	814.30	814.30	814.30	814.30	814.30	814.30	814.30	814.30	814.30	814.30	814.30	814.30	814.30	814.30
Offsite	SOx	35.19	35.19	35.19	35.19	48.70	97.26	97.26	97.26	105.08	116.29	108.47	108.47	108.47	117.95	89.83	90.82	90.82	87.44	78.63
	CO	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
	NOx	1.40	1.40	1.40	1.40	1.73	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.99	1.99	1.99	1.83	2.41
	PM10	12.31	12.31	12.31	12.31	17.44	27.37	27.37	27.37	31.62	41.53	40.11	35.87	35.87	35.87	33.31	33.31	33.31	33.31	33.31
	ROG	2.00	2.00	2.00	2.00	4.14	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80
	SOx	1.31	1.31	1.31	1.31	1.85	2.89	2.89	2.89	3.34	4.38	4.23	3.78	3.78	3.78	3.78	3.78	3.78	3.78	3.78
	CO	0.04	0.04	0.04	0.04	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.12	0.12	0.12	0.11	0.13
	NOx	0.08	0.08	0.08	0.08	0.11	0.19	0.19	0.19	0.22	0.28	0.27	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
	PM10	0.21	0.21	0.21	0.21	0.28	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
	ROG	1.33	1.33	1.33	1.33	1.88	2.96	2.96	2.96	3.42	4.50	4.34	3.88	3.88	3.88	3.88	3.88	3.88	3.88	3.88
	SOx	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
	CO	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
NOx	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
PM10	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
ROG	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	

Onsite/Offsite	Pollutant	2009												2010				Max (lbs/day)	Average (lbs/day)			
		3	4	5	6	7	8	9	10	11	12	1	2	3	4							
Onsite	CO	650.24	650.24	142.04	142.04	142.04	134.20	134.20	134.20	114.58	114.58	114.58	134.20	114.58	114.58	58.10	58.10	28.04	28.04	1023.82		
	NOx	502.94	502.94	121.79	121.79	121.79	115.00	115.00	115.00	98.03	98.03	98.03	115.00	98.03	98.03	44.07	44.07	21.78	21.78	801.36		
	PM10	3.84	3.84	1.02	1.02	1.02	0.97	0.97	0.97	0.82	0.82	0.82	0.97	0.82	0.82	0.32	0.32	0.17	0.17	6.12	2.19	
	ROG	814.30	814.30	17.77	17.77	17.77	16.78	16.78	16.78	14.31	14.31	14.31	16.78	14.31	14.31	7.00	7.00	3.40	3.40	853.26		
Offsite	SOx	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	1565.57		
	CO	124.55	119.77	105.02	105.02	105.02	109.79	109.79	109.79	55.55	55.55	55.55	109.79	55.55	55.55	29.86	29.86	25.48	25.48	129.31		
	NOx	13.06	12.56	11.02	11.02	11.02	11.52	11.52	11.52	5.84	5.84	5.84	11.52	5.84	5.84	4.39	4.39	4.39	4.39	6.70		
	PM10	0.13	0.13	0.09	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.09	0.09	0.09	0.09	0.13		
	ROG	0.93	0.89	0.78	0.78	0.78	0.82	0.82	0.82	0.41	0.41	0.41	0.82	0.41	0.41	0.24	0.24	0.21	0.21	0.95		
	SOx	0.42	0.42	0.24	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.22	0.22	0.22	0.22	0.42		
	CO	13.53	13.02	11.41	11.41	11.41	11.93	11.93	11.93	6.04	6.04	6.04	11.93	6.04	6.04	3.26	3.26	2.78	2.78	14.00		
	SOx	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
	CO	0.10	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.05	0.05	0.05	0.09	0.05	0.05	0.03	0.03	0.02	0.02	0.11		



OnOff	Pollutant	EmissionType	2006												2007										
			Year	Month	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	
Onsite	CO	ConstructionEquipment	88.91	88.91	88.91	88.91	88.91	88.91	88.91	88.91	88.91	88.91	88.91	88.91	88.91	88.91	88.91	88.91	88.91	88.91	88.91	88.91	88.91	88.91	88.91
		ConstructionEquipment	91.90	91.90	91.90	91.90	91.90	91.90	91.90	91.90	91.90	91.90	91.90	91.90	91.90	91.90	91.90	91.90	91.90	91.90	91.90	91.90	91.90	91.90	91.90
	PM10	ConstructionEquipment	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
		Fugitive PM10	119.38	119.38	119.38	119.38	119.38	119.38	119.38	119.38	119.38	119.38	119.38	119.38	119.38	119.38	119.38	119.38	119.38	119.38	119.38	119.38	119.38	119.38	119.38
Offsite	SOx	ConstructionEquipment	11.98	11.98	11.98	11.98	11.98	11.98	11.98	11.98	11.98	11.98	11.98	11.98	11.98	11.98	11.98	11.98	11.98	11.98	11.98	11.98	11.98	11.98	11.98
		Fugitive ROG	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
	CO	MobileConstruction	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77
		MobileWorker	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80
PM10	MobileConstruction	MobileWorker	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	
		MobileWorker	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	
	MobileConstruction	MobileWorker	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		MobileWorker	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
ROG	MobileConstruction	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	
	MobileWorker	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	
SOx	MobileConstruction	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
	MobileWorker	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	

OnOff	Pollutant	EmissionType	2008																	
			9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12		
Onsite	CO	ConstructionEquipment	309.95	309.95	309.95	421.69	852.49	852.49	852.49	916.96	1077.57	1004.64	940.17	940.17	940.17	1018.66	772.11	780.08	780.08	
	NOx	ConstructionEquipment	230.59	230.59	230.59	328.73	644.27	644.27	644.27	701.97	943.24	794.29	736.60	736.60	736.60	805.57	620.26	627.80	627.80	
	PM10	ConstructionEquipment	1.68	1.68	1.68	2.45	4.77	4.77	4.77	5.25	6.44	6.14	5.66	5.66	5.66	6.21	4.86	4.93	4.93	
	ROG	Fugitive PM10	119.38	119.38	119.38	119.38	1211.25	1211.25	1211.25	1211.25	1268.55	1268.55	1268.55	1268.55	1268.55	1268.55	1211.25	1211.25	1211.25	
Offsite	SOx	ConstructionEquipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
		Fugitive ROG	37.04	37.04	37.04	51.26	102.37	102.37	102.37	110.60	130.66	122.39	114.16	114.16	114.16	124.14	94.54	95.58	95.58	
	CO	MobileConstruction	1.40	1.40	1.40	1.73	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58
		MobileWorker	12.31	12.31	12.31	17.44	27.37	27.37	27.37	31.62	41.53	40.11	35.87	35.87	35.87	35.87	35.87	35.87	35.87	35.87
	NOx	MobileConstruction	2.00	2.00	2.00	4.14	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80
		MobileWorker	1.31	1.31	1.31	1.85	2.89	2.89	2.89	3.34	4.38	4.23	3.78	3.78	3.78	3.78	3.78	3.78	3.78	3.78
	PM10	MobileConstruction	0.04	0.04	0.04	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
		MobileWorker	0.08	0.08	0.08	0.11	0.19	0.19	0.19	0.22	0.28	0.27	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
	ROG	MobileConstruction	0.21	0.21	0.21	0.28	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
		MobileWorker	1.33	1.33	1.33	1.88	2.96	2.96	2.96	3.42	4.50	4.34	3.88	3.88	3.88	3.88	3.88	3.88	3.88	3.88
	SOx	MobileConstruction	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		MobileWorker	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

On/Off	Pollutant	Emission Type	2009												2010	Max (lbs/day)	Average (lbs/day)			
			1	2	3	4	5	6	7	8	9	10	11	12						
Onsite	CO	ConstructionEquipment	760.97	684.39	684.39	684.39	149.45	149.45	141.19	141.19	141.19	141.19	141.19	141.19	141.19	61.13	29.49	29.49	1077.57	
	NOx	ConstructionEquipment	587.52	529.21	529.21	529.21	128.01	128.01	128.01	128.01	128.01	128.01	128.01	128.01	128.01	46.35	22.89	22.89	843.24	
	PM10	ConstructionEquipment	4.44	4.04	4.04	4.04	1.07	1.07	1.01	1.01	1.01	1.01	1.01	1.01	1.01	0.34	0.18	0.18	6.44	
	PM10	Fugitive PM10	1211.25	1211.25	1211.25	1211.25														1268.55
	PM10	ConstructionEquipment	92.03	82.75	82.75	82.75	18.69	18.69	18.69	18.69	18.69	18.69	18.69	18.69	18.69	7.37	3.58	3.58	130.86	
Offsite	SOx	Fugitive ROG	1326.25	1565.37	1565.37	1565.37	1510.07	1510.07	1510.07	1483.87	1539.37	1539.37	1539.37	1539.37	1539.37	801.47	801.47	801.47	1585.57	
		ConstructionEquipment	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	
		MobileConstruction	1.83	2.41	2.41	2.41	1.24	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.13	1.13	1.13	2.41
		MobileWorker	127.58	124.55	124.55	119.77	105.02	105.02	105.02	109.79	109.79	109.79	109.79	109.79	109.79	55.55	42.53	25.48	25.48	129.31
		MobileWorker	5.84	6.70	6.70	6.70	4.98	5.84	5.84	5.84	5.84	5.84	5.84	5.84	5.84	5.84	4.39	4.39	4.39	6.70
	PM10	MobileConstruction	0.11	0.13	0.13	0.13	0.09	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.09	0.09	0.09	0.13
		MobileWorker	0.33	0.42	0.42	0.42	0.24	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.22	0.22	0.22	0.42
		MobileConstruction	13.87	13.53	13.53	13.02	11.41	11.41	11.41	11.93	11.93	11.93	11.93	11.93	11.93	6.04	4.62	2.78	2.78	14.00
		MobileWorker	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
	SOx	MobileConstruction	0.11	0.10	0.10	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.05	0.04	0.02	0.02	0.11
		MobileWorker	0.11	0.10	0.10	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.05	0.04	0.02	0.02	0.11

OnOff	Pollutant	EmissionType	2006												2007									
			Year	Month	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8			
Onsite	CO	ConstructionEquipment		84.50	84.50	84.50	84.50	84.50	84.50	84.50	84.50	84.50	84.50	86.89	86.89	86.89	86.89	86.89	86.89	86.89	294.48	294.48		
	NOx	ConstructionEquipment		87.41	87.41	87.41	87.41	87.41	87.41	87.41	87.41	87.41	87.41	83.66	83.66	83.66	83.66	83.66	83.66	83.66	219.09	219.09		
	PM10	ConstructionEquipment		0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.72	0.72	0.72	0.72	0.72	0.72	0.72	1.59	1.59		
	ROG	Fugitive PM10		81.18	81.18	81.18	81.18	81.18	81.18	81.18	81.18	81.18	81.18	81.18	81.18	81.18	81.18	81.18	81.18	81.18	81.18	81.18	81.18	
Offsite	SOx	ConstructionEquipment		11.39	11.39	11.39	11.39	11.39	11.39	11.39	11.39	11.39	11.39	11.38	11.38	11.38	11.38	11.38	11.38	11.38	35.19	35.19		
		Fugitive ROG		0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	CO	MobileConstruction		0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	
		MobileWorker		7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.18	7.18	7.18	7.18	7.18	7.18	7.18	12.31	12.31	
	NOx	MobileConstruction		1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	
		MobileWorker		0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.76	0.76	0.76	0.76	0.76	0.76	0.76	1.31	1.31	
	PM10	MobileConstruction		0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
		MobileWorker		0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
	ROG	MobileConstruction		0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
		MobileWorker		0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.77	0.77	0.77	0.77	0.77	0.77	0.77	1.33	1.33	
	SOx	MobileConstruction		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		MobileWorker		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

OnOff	Pollutant	EmissionType	2008														
			9	10	11	12	1	2	3	4	5	6	7	8	9	10	11
Onsite	CO	Construction/Equipment	294.48	294.48	294.48	400.63	809.89	809.89	871.17	1023.82	954.53	893.25	893.25	967.84	733.58	741.15	741.15
	NOx	Construction/Equipment	219.09	219.09	219.09	312.34	612.10	612.10	666.95	807.36	754.85	700.00	700.00	765.56	589.46	596.63	596.63
	PM10	Construction/Equipment	1.59	1.59	1.59	2.33	4.53	4.53	4.99	6.12	5.84	5.38	5.38	5.90	4.62	4.68	4.68
	ROG	Fugitive PM10	81.18	81.18	81.18	81.18	823.65	823.65	862.61	862.61	862.61	862.61	862.61	823.65	823.65	823.65	823.65
		Construction/Equipment	35.19	35.19	35.19	48.70	97.26	97.26	105.08	124.34	116.29	108.47	108.47	117.95	89.83	90.82	90.82
Offsite	SOx	Fugitive ROG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
	CO	Construction/Equipment	1.40	1.40	1.40	1.73	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.99	1.99
		MobileConstruction	12.31	12.31	12.31	17.44	27.37	27.37	31.62	41.53	40.11	35.87	35.87	35.87	35.87	35.87	35.87
	NOx	MobileWorker	2.00	2.00	2.00	4.14	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80
		MobileConstruction	1.31	1.31	1.31	1.85	2.89	2.89	3.34	4.38	4.23	3.78	3.78	3.78	3.78	3.78	3.78
	PM10	MobileWorker	0.04	0.04	0.04	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
		MobileConstruction	0.08	0.08	0.08	0.11	0.19	0.19	0.22	0.28	0.27	0.24	0.24	0.24	0.24	0.24	0.24
	ROG	MobileConstruction	0.21	0.21	0.21	0.28	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
		MobileWorker	1.33	1.33	1.33	1.88	2.96	2.96	3.42	4.50	4.34	3.88	3.88	3.88	3.88	3.88	3.88
	SOx	MobileConstruction	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		MobileWorker	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03

OnOff	Pollutant	EmissionType	2009												2010			Max (lbs/day)	Average (lbs/day)
			1	2	3	4	5	6	7	8	9	10	11	12	1	2	3		
Onsite	CO	ConstructionEquipment	722.99	650.24	650.24	650.24	142.04	142.04	142.04	134.20	134.20	114.58	114.58	58.10	58.10	28.04	28.04	1023.82	
	NOx	ConstructionEquipment	558.33	502.94	502.94	502.94	121.79	121.79	121.79	115.00	115.00	98.03	98.03	44.07	44.07	21.78	21.78	801.36	
	PM10	ConstructionEquipment	4.22	3.84	3.84	3.84	1.02	1.02	1.02	0.97	0.97	0.82	0.82	0.32	0.32	0.17	0.17	6.12	2.19
	ROG	Fugitive PM10	823.65	823.65	823.65	823.65													862.61
	ROG	ConstructionEquipment	87.44	78.63	78.63	78.63	17.77	17.77	17.77	16.78	16.78	14.31	14.31	7.00	7.00	3.40	3.40	124.34	
Offsite	SOx	Fugitive ROG	1326.25	1565.57	1565.57	1565.57	1510.07	1510.07	1510.07	1483.87	1539.37	1539.37	801.47	801.47	391.86	391.86	336.36	1565.57	
	CO	ConstructionEquipment	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.02	
	CO	MobileConstruction	1.83	2.41	2.41	2.41	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.13	1.13	1.13	1.13	2.41	
	NOx	MobileWorker	127.58	124.55	124.55	119.77	105.02	105.02	105.02	109.79	109.79	55.55	55.55	29.86	29.86	25.48	25.48	129.31	
	NOx	MobileConstruction	5.84	5.70	5.70	5.70	4.98	4.98	4.98	5.84	5.84	5.84	5.84	4.39	4.39	4.39	4.39	6.70	
	PM10	MobileWorker	13.38	13.06	13.06	13.06	11.02	11.02	11.02	11.52	11.52	5.83	5.83	4.46	4.46	2.66	2.66	13.65	
	PM10	MobileConstruction	0.11	0.13	0.13	0.13	0.09	0.09	0.11	0.11	0.11	0.11	0.11	0.11	0.09	0.09	0.09	0.13	
	ROG	MobileWorker	0.33	0.42	0.42	0.42	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.22	0.22	0.22	0.42	
	ROG	MobileConstruction	0.33	0.42	0.42	0.42	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.22	0.22	0.22	0.42	
	SOx	MobileWorker	13.87	13.53	13.53	13.53	11.41	11.41	11.41	11.93	11.93	6.04	6.04	4.62	4.62	2.78	2.78	14.00	
SOx	MobileConstruction	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
			0.10	0.10	0.10	0.09	0.09	0.09	0.09	0.09	0.05	0.05	0.05	0.03	0.03	0.02	0.02	0.11	

Phase	Equipment Name	Hours	HP	Load	Year																				
					Trip Length	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017								
Site Preparation	6-8 CY Front-end Loaders	8	165	0.465																					
	Bulldozer	8	352	0.59																					
Deep Dynamic Compaction	End Dump Trucks	8	235	0.41																					
	Water Trucks	8	15	0.04																					
	250-ton Crane	8	190	0.43																					
	40-ton Off Highway Truck	8	417	0.49																					
	Bulldozer	8	352	0.59																					
	Front-end Loaders	8	165	0.465																					
	Water Trucks	8	15	0.04																					
	Bulldozer	8	352	0.59																					
	Front-end Loaders	8	165	0.465																					
	Grader	8	174	0.575																					
Remediation Construction	Water Trucks	8	30	0.02																					
	12-20 CY Scrapers	8	313	0.66																					
	30-50-ton Excavator	8	160	0.58																					
	Front-end Loaders	8	165	0.465																					
	Hollow Stem Drill Rig	8	218	0.75																					
	Small Road Grader	8	174	0.575																					
	Smooth Drum Roller	8	114	0.43																					
	Tractor/Loader/Backhoe	8	79	0.465																					
	200-ton Crane	2	190	0.43																					
	Concrete Pump (Truck Mounted)	8	174	0.575																					
	Misc Equipment (Generators, Compressors, Paving Equipment)	8	190	0.62																					
	Tractor/Loader/Backhoe	8	79	0.465																					
	150-ton Pile Driver	8	190	0.62																					
	200-ton Crane	8	190	0.43																					
	90-50-ton Excavator	8	160	0.58																					
Construction and Tenant Improvements	Forklift	8	94	0.475																					
	Misc Equipment (Generators, Compressors, etc.)	8	190	0.62																					
	Concrete Pump (Truck Mounted)	2	190	0.43																					
	Generator	8	80	0.375																					
	Front-end loader	8	165	0.465																					
	Misc Equipment (Generators, Compressors, etc.)	2	190	0.62																					
	Stinger Crane (Truck Mounted)	8	190	0.62																					
	Tractor/Loader/Backhoe	8	79	0.465																					
	Bulldozer	8	352	0.59																					
	Grader	8	174	0.575																					
	Misc Equipment (Generators, Compressors, Paving Equipment)	8	190	0.62																					
	Tractor/Loader/Backhoe	8	79	0.465																					
	Water Truck	8	11	0.06																					
	24-CY Scraper	8	313	0.66																					
	Front-end loader	8	165	0.465																					
Buldozer	8	352	0.59																						
Grading (11 acre site)	Graders	8	174	0.575																					
	Soil Compactor	8	190	0.62																					
	Water Truck	8	190	0.62																					
	Concrete Pump (Truck Mounted)	4	190	0.62																					
	Flatbed Truck																								
Construction (11 acre site)	Forklift	8	190	0.62																					
	Misc Equipment (Generators, Compressors, Paving Equipment)	8	190	0.62																					
	Tractor/Loader/Backhoe	8	79	0.465																					
	Water Truck	8	218	0.75																					
	Tractor/Loader/Backhoe	8	79	0.465																					
Perimeter Vapor Probes	Water Truck	8	218	0.75																					
	Tractor/Loader/Backhoe	8	79	0.465																					
	Off-site Delivery Trucks (Roundtrips)																								
Off-site Truck Trips	Off-site Haul Trucks (Roundtrips)		0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8		
	Off-site Trash Trucks (Roundtrips)		20																						
Worker Trips	Worker Trips - Calculated Total				7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8		
	Worker Trips - Total				14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4		

Phase	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	
<b>Site Preparation</b>																	
6-8 CY Front-end Loaders																	
End Dump Trucks																	
Tractor/Loader/Backhoe																	
Water Truck																	
<b>Deep Dynamic Compaction</b>																	
350-ton Crane	25.3	23.3	23.3	23.3	23.3												
40-ton Off-Highway Truck	58.2	58.2	58.2	58.2	58.2												
Bulldozer	25.7	25.7	25.7	25.7	25.7												
Front-end Loaders	21.9	21.9	21.9	21.9	21.9												
Water Trucks	0.2	0.2	0.2	0.2	0.2												
<b>Grading</b>																	
Bulldozer	77.2	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	83.0	83.0	83.0	83.0	83.0
Front-end Loaders	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9
Grader	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5
Scrapers	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
Motor Graders	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
Water Trucks	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
<b>Remediation Construction</b>																	
12-20 CY Scrapers	117.7	117.7	117.7	117.7	117.7	117.7	117.7	117.7	117.7	117.7	117.7	117.7	117.7	117.7	117.7	117.7	117.7
30-50 ton Excavator	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7
Front-end Loaders	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9
Hollow Stem Drill Rig	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6
Small Road Grader	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
Smooth Drum Roller	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
Tractor/Loader/Backhoe	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
200-ton Crane																	
Concrete Pump (Truck Mounted)																	
Tractor/Loader/Backhoe	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1
Misc. Equipment (Generators, Compressors, Paving Equipment)																	
<b>Pile Driving</b>																	
150-ton Pile Driver	43.8	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4
200-ton Crane	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6
30-50 ton Excavator	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7
Front-end Loaders	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
Misc. Equipment (Generators, Compressors, etc.)	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1
<b>Construction and Tenant Improvements</b>																	
Concrete Pump (Truck Mounted)																	
Tractor/Loader/Backhoe	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7
Grader	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
Misc. Equipment (Generators, Compressors, Paving Equipment)																	
Tractor/Loader/Backhoe	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
Water Truck																	
6-8 CY Front-end Loader	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Soil Compactor	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Concrete Pump (Truck Mounted)																	
Water Truck																	
6-8 CY Front-end Loader	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Misc. Equipment (Generators, Compressors, etc.)																	
Tractor/Loader/Backhoe	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7
Graders	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
Water Truck																	
Concrete Pump (Truck Mounted)																	
Flatbed Truck	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Portlift	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3
Misc. Equipment (Generators, Compressors, Paving Equipment)																	
Tractor/Loader/Backhoe	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1
Water Truck	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
Tractor/Loader/Backhoe	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Tractor/Loader/Backhoe																	
Off-site Heavy Trucks (Roundtrips)	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Off-site Light Trucks (Roundtrips)	48.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
Off-site Worker Trips																	
<b>Worker Trips</b>	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8
<b>Total</b>	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8
	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8
	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1
	126.7	126.7	126.7	126.7	126.7	126.7	126.7	126.7	126.7	126.7	126.7	126.7	126.7	126.7	126.7	126.7	126.7
	122.4	122.4	122.4	122.4	122.4	122.4	122.4	122.4	122.4	122.4	122.4	122.4	122.4	122.4	122.4	122.4	122.4



Phase	Equipment/Name	2009					2010														
		5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9			
Site Preparation	6-8 CY Front-end Loaders																				
	Bulldozer																				
	End Dump Trucks																				
Deep Dynamic Compaction	Track Loader																				
	Wheel Loader																				
	3200 CY Crane																				
	40-ton Off Highway Truck																				
Grading	Bulldozer																				
	Water Trucks																				
	Bulldozer																				
	Front-end Loaders																				
Remediation Construction	Grader																				
	Scrapers																				
	Sheepfoot Soil Compactor																				
	30-50-ton Excavator																				
	Front-End Loaders																				
	Hollow Stem Drill Rig																				
	Small Road Grader																				
	Smooth Drum Roller																				
	Tractor/Loader/Backhoe																				
	200-ton Crane																				
	Concrete Pump (Truck Mounted)																				
	Pile Driving	Finish Grader																			
Tractor/Loader/Backhoe (Generators, Compressors, Paving Equipment)																					
Construction and Tenant Improvements	150-ton Pile Driver																				
	200-ton Crane																				
	Forklift																				
	Misc. Equipment (Generators, Compressors, etc.)																				
	200-ton Crane																				
	Concrete Pump (Truck Mounted)																				
	Forklift																				
	Wheel Loader																				
	Misc. Equipment (Generators, Compressors, etc.)																				
	Single Crane (Truck Mounted)																				
	Tractor/Loader/Backhoe																				
	Site Preparation (11 acre site)	Bulldozer																			
Grader																					
Misc. Equipment (Generators, Compressors, Paving Equipment)																					
Grading (11 acre site)	Tractor/Loader/Backhoe																				
	Water Truck																				
	24-CY Stragger																				
Construction (11 acre site)	Bulldozer																				
	Soil Compactor																				
	Water Truck																				
	Concrete Pump (Truck Mounted)																				
	Flatbed Truck																				
	Forklift																				
Perimeter Vapor Probes	Misc. Equipment (Generators, Compressors, Paving Equipment)																				
	Tractor/Loader/Backhoe																				
	Water Truck																				
	Hollow Stem Drill Rig																				
Off-site Truck Trips	Tractor/Loader/Backhoe																				
	Off-site Haul Trucks (Roundtrips)																				
	Off-site Trash Trucks (Roundtrips)																				
Worker Trips	Worker Trips - Calculated Total																				



Phase	12	11	10	9	8	7	6	2008	7	8	9	10	11	12	1	2	3	4
<b>Site Preparation</b>																		
6-H CV Front End Loaders																		
Buildozer																		
End Dump Trucks																		
Water Truck																		
<b>Deep Dynamic Compaction</b>																		
250-ton Crane			24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
40-ton Off Highway Truck			61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
Buildozer			27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1
Front-end Loaders			23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
Water Trucks			0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Buildozer			81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
Front-end Loaders			23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
Grader			36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0
Scrapers			464.5	464.5	464.5	464.5	464.5	464.5	464.5	464.5	464.5	464.5	464.5	464.5	464.5	464.5	464.5	464.5
Wheel Loader Soil Compactor			0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Water Truck			0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
<b>Remediation Construction</b>																		
12-20 CV Scramers			123.9	123.9	123.9	123.9	123.9	123.9	123.9	123.9	123.9	123.9	123.9	123.9	123.9	123.9	123.9	123.9
30-50-ton Excavator			31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3
Front-End Loaders			11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
Roll-over Stem Drill Eq.			49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0
Small Road Grader			15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Smooth Drum Roller			14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
Tractor/Loader/Backhoe			4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
200-ton Crane																		
Concrete Pump (Truck Mounted)																		
Generator (Generators, Compressors, Paving Equipment)																		
Misc Equipment (Generators, Compressors, Paving Equipment)																		
Tractor/Loader/Backhoe																		
<b>Pile Driving</b>																		
150-ton Pile Driver			47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8
200-ton Crane			12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
30-50-ton Excavator			31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3
Forklift			6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
Misc Equipment (Generators, Compressors, etc.)			15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
200-ton Crane																		
Concrete Pump (Truck Mounted)																		
Generator (Generators, Compressors, Paving Equipment)																		
Misc Equipment (Generators, Compressors, Paving Equipment)																		
Tractor/Loader/Backhoe																		
Front-end Loader																		
Misc Equipment (Generators, Compressors, etc.)																		
Single Crane (Truck Mounted)																		
Tractor/Loader/Backhoe																		
<b>Construction and Tenant Improvements</b>																		
Buildozer																		
Grader																		
Misc Equipment (Generators, Compressors, Paving Equipment)																		
Tractor/Loader/Backhoe																		
Water Truck																		
6 CV Skidder																		
8 CV Front-end Loader																		
Buildozer																		
Graders																		
Soil Compactor																		
Water Truck																		
Concrete Pump (Truck Mounted)																		
Flatbed Truck																		
Forklift																		
Misc Equipment (Generators, Compressors, Paving Equipment)																		
Tractor/Loader/Backhoe																		
Water Truck																		
Tractor/Loader/Backhoe																		
Water Truck Drill Rig																		
Off-site Delivery Trucks (Roundtrips)			1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Off-site Haul Trucks (Roundtrips)			49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
Off-site Trash Trucks (Roundtrips)																		
Worker Trips			13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8
Worker Trips - Calculated Total			13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8

Phase	Equipment Name	2009					2010												
		5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	
Site Preparation	6-8 CY Front-end Loaders																		
	Buildozer																		
	End Dump Trucks																		
	Water Truck																		
	Water Caster																		
Deep Dynamic Compaction	350-ton Crane																		
	40-ton Off Highway Truck																		
	Buildozer																		
	Front-end Loaders																		
	Water Trucks																		
Grading	Buildozer																		
	Front-end Loaders																		
	Grader																		
	Scrapers																		
	Grading/Soil Compactor																		
Remediation Construction	13-20 CY Scrapers																		
	30-50-ton Excavator																		
	Front End Loaders																		
	Hollow Stem Drill Rig																		
	Small Road Grader																		
Utilities/Roads	Smooth Drum Roller																		
	Tractor/Loader/Backhoe																		
	200-ton Crane																		
	Concrete Pump (Truck Mounted)																		
	Misc Equipment (Generators, Compressors, Paving Equipment)																		
Pile Driving	Tractor/Loader/Backhoe																		
	150-ton Pile Driver																		
	200-ton Crane																		
	30-50-ton Excavator																		
	Forklift																		
Construction and Tenant Improvements	Misc Equipment (Generators, Compressors, etc.)																		
	200-ton Crane																		
	Concrete Pump (Truck Mounted)																		
	Forklift																		
	Front-end Loader																		
Site Preparation (11 acre site)	Misc Equipment (Generators, Compressors, etc.)																		
	Scrapers																		
	Tractor/Loader/Backhoe																		
	Buildozer																		
	Grader																		
Grading (11 acre site)	Misc Equipment (Generators, Compressors, Paving Equipment)																		
	Tractor/Loader/Backhoe																		
	Water Truck																		
	24-CY Scraper																		
	Backhoe																		
Construction (11 acre site)	Soil Compactor																		
	Water Truck																		
	Concrete Pump (Truck Mounted)																		
	Flinted Truck																		
	Forklift																		
Perimeter Vapor Probes	Misc Equipment (Generators, Compressors, Paving Equipment)																		
	Tractor/Loader/Backhoe																		
	Water Truck																		
	Tractor/Loader/Backhoe																		
	Water Truck																		
Off-site Truck Trips	Tractor/Loader/Backhoe																		
	Tractor/Loader/Backhoe																		
	Water Truck																		
	Tractor/Loader/Backhoe																		
	Water Truck																		
Worker Trips	Tractor/Loader/Backhoe																		
	Tractor/Loader/Backhoe																		
	Water Truck																		
	Tractor/Loader/Backhoe																		
	Water Truck																		

Carson Marketplace  
Construction Emissions  
NOx (Mitigated)

Approved RAP  
Scenario 1 (Peak)

Phase	Equipment/Name	Hours	HP	Load	Trip Length	2006					2007					
						1	2	3	4	5	6	7	8			
Site Preparation	6-8 CY Front-end Loaders	8	165	0.655		15.6	15.6	15.6	15.6	15.6	15.3	15.3	15.3	15.3	15.3	15.3
	Bulldozer	8	352	0.59		55.7	55.7	55.7	55.7	55.7	53.1	53.1	53.1	53.1	53.1	53.1
	End Dump Trucks	8	255	0.41	5	1.6	1.6	1.6	1.6	1.6	1.4	1.4	1.4	1.4	1.4	1.4
	Tractor/Loader	8	255	0.41	5	14.0	14.0	14.0	14.0	14.0	13.4	13.4	13.4	13.4	13.4	13.4
	Water Truck	8	190	0.43	5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Deep Dynamic Compaction	30-ton Vibratory Plate	8	417	0.40												
	Off-Highway Truck	8	352	0.59												
	Bulldozer	8	165	0.465												
	Front-end Loaders	8	165	0.465												
	Water Trucks	8	352	0.59	5											
Grading	Bulldozer	8	352	0.59												
	Front-end Loaders	8	165	0.465												
	Grader	8	174	0.575												
	Scrapers	8	313	0.66												
	Sheepsfoot Soil Compactor	8	50	0.62	5											
Remediation Construction	Water Trucks	8	313	0.66												
	30-50 CY Scissors	8	180	0.58												
	Front End Loader	8	165	0.465												
	Hollow Stem Drill Rig	8	218	0.75												
	Small Road Grader	8	174	0.575												
	Smooth Drum Roller	8	114	0.43												
	Tractor/Loader/Backhoe	8	79	0.465												
	200-ton Crane	2	190	0.43												
	Concrete Pump (Truck Mounted)	8	190	0.62												
	Finish Grader	8	74	0.575												
Pile Driving	Misc. Equipment (Generators, Compressors, Paving Equipment)	8	190	0.62												
	Tractor/Loader/Backhoe	8	79	0.465												
	150-ton Pile Driver	8	190	0.62												
	200-ton Crane	8	190	0.43												
	30-50 ton Excavator	8	160	0.58												
	Fortlift	8	94	0.475												
	Misc. Equipment (Generators, Compressors, etc.)	8	190	0.62												
	200-ton Crane	8	190	0.43												
	Concrete Pump (Truck Mounted)	8	190	0.62												
	Fortlift	8	94	0.475												
Construction and Tenant Improvements	Front-end Loader	8	165	0.465												
	Misc. Equipment (Generators, Compressors, etc.)	8	190	0.62												
	Site Office (Truck Mounted)	2	190	0.62												
	Tractor/Loader/Backhoe	8	79	0.465												
	Bulldozer	8	352	0.59												
	Grader	8	174	0.575												
	Misc. Equipment (Generators, Compressors, Paving Equipment)	8	190	0.62												
	Tractor/Loader/Backhoe	8	79	0.465												
	Water Truck	8	313	0.66	5											
	24-CY Scraper	8	165	0.465												
Grading (11 acre site)	Bulldozer	8	352	0.59												
	30-CY Front-end Loader	8	174	0.575												
	Soil Compactor	8	172	0.575												
	Soil Compactor	8	190	0.62												
	Water Truck	8	313	0.66	5											
Construction (11 acre site)	Concrete Pump (Truck Mounted)	4	190	0.62												
	Flatbed Truck	8	190	0.62	20											
	Forklift	8	190	0.62												
	Misc. Equipment (Generators, Compressors, Paving Equipment)	8	190	0.62												
	Tractor/Loader/Backhoe	8	79	0.465	5											
Perimeter Vapor Probes	Water Truck	8	218	0.75												
	Follow Stem Drill Rig	8	79	0.465												
	Tractor/Loader/Backhoe	8	79	0.465												
	Off-site Truck Trips	30			1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
	Off-site Truck Trips (Roundtrips)	20			0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Worker Trips	Off-site Truck Trips (Roundtrips)	20			1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	Off-site Truck Trips (Roundtrips)	20			0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Worker Trips - Calculated Total				20	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8

Phase	Equipment Name	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4
Site Preparation	30-CY Front-end Loader	758	758	758	758	758	758	758	758	758	758	758	758	71.8	71.8	71.8	71.8
	Bulldozer	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9
	Water Truck	320.3	320.3	320.3	320.3	320.3	320.3	320.3	320.3	320.3	320.3	320.3	320.3	315.7	315.7	315.7	315.7
	Tracked Loader	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	10.7	10.7	10.7	10.7
Deep Dynamic Compaction	230-ton Crane	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	0.2	0.2	0.2	0.2
	40-ton Off Highway Truck	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	0.2	0.2	0.2	0.2
	Bulldozer	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	0.2	0.2	0.2	0.2
	Water Trucks	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Grading	Bulldozer	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	71.8	71.8	71.8	71.8
	Front-end Loader	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	14.9	14.9	14.9	14.9
	Water Truck	320.3	320.3	320.3	320.3	320.3	320.3	320.3	320.3	320.3	320.3	320.3	320.3	315.7	315.7	315.7	315.7
	Shovel/Soil Compactor	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	10.7	10.7	10.7	10.7
	Water Trucks	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	12-20 CY Scrapers	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	85.4	85.4	85.4	85.4
	30-50-ton Excavator	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3
	Front End Loaders	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.5	7.5	7.5	7.5
	Hollow Stem Drill Rig	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
	Small Robot Grader	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.1	10.1	10.1	10.1
	Smooth Drum Roller	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.5	9.5	9.5	9.5
	Tractor/Loader/Backhoe	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.3	4.3	4.3	4.3
	200-ton Crane	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.0	4.0	4.0	4.0
Remediation Construction	Concrete Pump (Truck Mounted)	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	13.6	13.6	13.6	13.6
	Finish Grader	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	9.9	9.9	9.9	9.9
	Misc. Equipment (Generators, Compressors, Paving Equipment)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	Tractor/Loader/Backhoe	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	150-ton Pile Driver	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	200-ton Crane	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
	30-50-ton Excavator	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3
	Misc. Equipment (Generators, Compressors, etc.)	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	200-ton Crane	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
	Concrete Pump (Truck Mounted)	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7
	Forklift	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
Construction and Tenant Improvements	Front-end Loader	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
	Misc. Equipment (Generators, Compressors, etc.)	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	Shovel/Soil Compactor	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
	Tractor/Loader/Backhoe	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	Bulldozer	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3
	Misc. Equipment (Generators, Compressors, Paving Equipment)	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
	Tractor/Loader/Backhoe	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	Water Truck	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
	24-CY Scaper	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4
	8-CY Front-end Loader	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
	Bulldozer	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3
Site Preparation (11 acre site)	Graders	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
	Soil Compactor	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
	Water Truck	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
	Concrete Pump (Truck Mounted)	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
	Water Truck	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7
	Misc. Equipment (Generators, Compressors, Paving Equipment)	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
	Tractor/Loader/Backhoe	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
	Water Truck	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
	Hollow Stem Drill Rig	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9
	Tractor/Loader/Backhoe	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	Off-site Truck Trips	Offsite Delivery Trucks (Roundtrips)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.4	2.4	2.4
Offsite Haul Trucks (Roundtrips)		320.7	320.7	320.7	320.7	320.7	320.7	320.7	320.7	320.7	320.7	320.7	320.7	1.8	1.8	1.8	1.8
Offsite Trash Trucks (Roundtrips)		289.9	289.9	289.9	289.9	289.9	289.9	289.9	289.9	289.9	289.9	289.9	289.9	0.9	0.9	0.9	0.9
Worker Trips	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	13.3	13.3	13.3	12.8

Approved RAP  
Scenario 1 (Peak)

Carbon MarketPlace  
Construction Emissions  
NOx (Mitigated)

Phase	Equipment Name	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Site Preparation	6-8 CY Front-end Loaders											
	Excavator											
	Tracked Loader											
	Water Truck											
Deep Dynamic Compaction	250-ton Crane											
	40-ton Off Highway Truck											
	Bulldozer											
	Water Trucks											
Grading	Bulldozer											
	Front-end Loaders											
	Grader											
	Shredded Soil Compactor											
Remediation Construction	Water Trucks											
	12-20 CY Scrapers											
	30-50-ton Excavator											
	Front End Loaders											
Utilities/Roads	Hollow Stem Drill Rig											
	Small Road Grader											
	Smooth Drum Roller											
	Tractor/Loader/Backhoe											
	100-ton Crane											
	Front-End Loader (Truck Mounted)											
	Front-End Loader											
	Misc Equipment (Generators, Compressors, Paving Equipment)											
	Tractor/Loader/Backhoe											
	150-ton Pile Driver											
Pile Driving	200-ton Crane											
	30-50-ton Excavator											
	Front-End Loader											
	Misc Equipment (Generators, Compressors, etc.)											
Construction and Tenant Improvements	Tractor/Loader/Backhoe											
	Front-End Loader (Truck Mounted)											
	Front-End Loader											
	Misc Equipment (Generators, Compressors, etc.)											
	Singer Crane (Truck Mounted)											
	Tractor/Loader/Backhoe											
	Bulldozer											
	Grader											
	Misc Equipment (Generators, Compressors, Paving Equipment)											
	Tractor/Loader/Backhoe											
Grading (11 acre site)	34 CY Front-End Loader											
	Bulldozer											
	Graders											
	Soil Compactor											
Construction (11 acre site)	Water Truck											
	Concrete Pump (Truck Mounted)											
	Flatbed Truck											
	Front-End Loader											
Perimeter Vapor Probes	Misc Equipment (Generators, Compressors, Paving Equipment)											
	Water Truck											
	Hollow Stem Drill Rig											
	Tractor/Loader/Backhoe											
Off-site Truck Trips	Off-site Delivery Trucks (Roundtrips)											
	Off-site Haul Trucks (Roundtrips)											
	Off-site Trash Trucks (Roundtrips)											
	Worker Trips - Calculated Total											





Phase	Equipment/Activity	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	
Site Preparation	6-8 CY Front-end Loaders																	
	Bulldozer																	
	End Dump Trucks																	
	Tracked Loader																	
	Water Truck																	
	30-ton Crane	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	
	30-ton Piling Truck	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	
	Bulldozer	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	
	Front-end Loaders	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	
	Water Trucks	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Grading	Bulldozer	83.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	75.6	75.6	75.6	75.6	
	Front-end Loaders	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	
	Grader	21.6	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	20.9	20.9	20.9	
	Scraper	342.1	337.2	337.2	337.2	337.2	337.2	337.2	337.2	337.2	337.2	337.2	337.2	332.3	332.3	332.3	332.3	
	Sheepsfoot Soil Compactor	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	
	Water Trucks	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
	30-50 CY Scrapers	91.3	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	
	Water Trucks	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	
	Front End Loaders	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	
	Hollow Stem Drill Rig	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	
Remediation Construction	Small Road Grader	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	
	Smooth Drum Roller	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	
	Tractor/Loader/Backhoe	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	
	200-ton Crane																	
	Concrete Pump (Truck Mounted)																	
	Finish Grader																	
	Misc. Equipment (Generators, Compressors, Paving Equipment)																	
	Tractor/Loader/Backhoe																	
	150-ton Pile Driver	47.6	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	42.9	42.9	42.9	42.9
	200-ton Crane	8.7	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.4	8.4	8.4	8.4
Pile Driving	30-50 ton Excavator	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	
	Frontfill	4.7	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	
	Misc. Equipment (Generators, Compressors, etc.)																	
	200-ton Crane	15.9	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	14.3	14.3	14.3	14.3
	Concrete Pump (Truck Mounted)																	
	Front-end Loader																	
	Tractor/Loader/Backhoe																	
	Misc. Equipment (Generators, Compressors, etc.)																	
	Site Crane (Truck Mounted)																	
	Tractor/Loader/Backhoe																	
Construction and Tenant Improvements	Bulldozer																	
	Grader																	
	Misc. Equipment (Generators, Compressors, Paving Equipment)																	
	Tractor/Loader/Backhoe																	
	Water Truck																	
	24-CY Scraper																	
	Bulldozer																	
	30-ton Crane																	
	Site Crane (Truck Mounted)																	
	Water Truck																	
Site Preparation (11 acre site)	Concrete Pump (Truck Mounted)																	
	Flashed Truck																	
	Frontfill																	
	Misc. Equipment (Generators, Compressors, Paving Equipment)																	
	Tractor/Loader/Backhoe																	
	Water Truck																	
	Inflow Stem Drill Rig																	
	Tractor/Loader/Backhoe																	
	Off-site Delivery Trucks (Roundtrips)																	
	Off-site Trash Trucks (Roundtrips)																	
Perimeter Vapor Probes	Worker Trips - Calculated Total	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	
	Off-site Truck Trips	320.7	320.7	320.7	320.7	320.7	320.7	320.7	320.7	320.7	320.7	320.7	320.7	320.7	320.7	320.7	320.7	
	Worker Trips	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	

Phase	Equipment/Name	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9
Site Preparation	6-8 CY Front-end Loaders																	
	Buildozer																	
	End Dump Trucks																	
	Tracked Loader																	
Deep Dynamic Compaction	Water Truck																	
	200-ton Crane																	
	Tractor/Loader/Backhoe																	
	Water Trucks																	
Grading	Buildozer																	
	Front-end Loaders																	
	Grader																	
	Scrapers																	
Remediation Construction	Sheepsfoot Soil Compactor																	
	Water Trucks																	
	30-50 CY Scrapers																	
	Tractor/Loader/Backhoe																	
	Front End Loaders																	
	Hollow Stem Drill Rig																	
	Small Road Grader																	
	Smooth Drum Roller																	
	Tractor/Loader/Backhoe																	
	200-ton Crane																	
	30-50-ton Excavator																	
Utilities/Roads	Forklift																	
	Misc. Equipment (Generators, Compressors, etc.)																	
	200-ton Crane																	
	Concrete Pump (Truck Mounted)																	
	Forklift																	
	Front-end Loader																	
	Misc. Equipment (Generators, Compressors, etc.)																	
	Misc. Equipment (Truck Mounted)																	
	Tractor/Loader/Backhoe																	
	Buildozer																	
	Site Preparation (11 acre site)	Misc. Equipment (Generators, Compressors, Paving Equipment)																
Tractor/Loader/Backhoe																		
Water Truck																		
24-CY Scraper																		
8-CY Front-end Loader																		
Buildozer																		
Scrapers																		
Self-Propelled Soil Grader																		
Water Truck																		
Concrete Pump (Truck Mounted)																		
Construction (11 acre site)		Flatbed Truck																
	Forklift																	
	Misc. Equipment (Generators, Compressors, Paving Equipment)																	
	Tractor/Loader/Backhoe																	
	Water Truck																	
	Hollow Stem Drill Rig																	
	Tractor/Loader/Backhoe																	
	Off-site Delivery Trucks (Roundtrips)																	
	Off-site Trash Trucks (Roundtrips)																	
	Workers Trips - Calculated Total																	



Phase	Equipment Name	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5		
Site Preparation	5-8 CY Front-loaders																			
	Excavator																			
	End Dump Trucks																			
	Tracked Loader																			
	Water Truck																			
	200-ton Crane	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	20-ton Highway Truck	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	Backhoe Loader	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	Front-end Loader	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Water Trucks	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Grading																			
Remediation Construction	Front-end Loaders	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	
	Grader	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
	Scrapers	2.7	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.3	2.3	
	Sheepsfoot Soil Compactor	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
	Water Trucks	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	12-20 CY Scrapers	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	
	90-50-ton Excavator	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
	Front End Loaders	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	Rolling Steam Drill Rig	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
	Sintered Roller	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
	Smooth Drum Roller	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Tractor/Loader/Backhoe	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Utilities/Roads																				
Pile Driving	Concrete Pump (Truck Mounted)																			
	Finish Grader																			
	Misc Equipment (Generators, Compressors, Paving Equipment)																			
	Tractor/Loader/Backhoe																			
	150-ton Pile Driver	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	
	200-ton Crane	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
	90-50-ton Excavator	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
	Gravel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	Misc Equipment (Generators, Compressors, etc.)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
	Concrete Pump (Truck Mounted)																			
	Construction and Tenant Improvement																			
Site Preparation (11 acre site)	Front-end Loader																			
	Misc Equipment (Generators, Compressors, etc.)																			
	Singer Crane (Truck Mounted)																			
	Tractor/Loader/Backhoe																			
	Builder																			
	Grader																			
	Misc Equipment (Generators, Compressors, Paving Equipment)																			
	Tractor/Loader/Backhoe																			
	Water Truck																			
	24 CY Scraper																			
	Front-end Loader																			
Builder																				
Graders																				
Soil Compactor																				
Water Truck																				
Construction (11 acre site)																				
Perimeter Vapor Probes	Concrete Pump (Truck Mounted)																			
	Failed Truck																			
	Forklift																			
	Misc Equipment (Generators, Compressors, Paving Equipment)																			
	Tractor/Loader/Backhoe																			
	Water Truck																			
	Hollow Stem Drill Rig																			
	Tractor/Loader/Backhoe																			
	Off-site Truck Trips		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Off-site Truck Trips (Roundtrips)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	
	Off-site Truck Trips (Roundtrips)	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	
Off-site Truck Trips (Roundtrips)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
Worker Trips - Calculated Total																				
Worker Trips (acres per day) - Max	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9		
Fugitive Dust (acres per day) - Normal	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2		
Fugitive Dust (yd3 per day) - Normal	852.6	852.6	852.6	852.6	852.6	852.6	852.6	852.6	852.6	852.6	852.6	852.6	852.6	852.6	852.6	852.6	852.6	852.6		
Fugitive Dust (t24 per day) - Normal	802.4	802.4	802.4	802.4	802.4	802.4	802.4	802.4	802.4	802.4	802.4	802.4	802.4	802.4	802.4	802.4	802.4	802.4		

Phase	Equipment/Name	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Site Preparation	6 ft CV Front-end Loaders											
	Excavator											
	End Dump Trucks											
	Wheel Loader											
Deep Dynamic Compaction	250-ton Crane											
	40-ton Off Highway Truck											
	Front-end Loaders											
	Water Trucks											
Grading	Excavator											
	Front-end Loaders											
	Grader											
	Scrapers											
Remediation Construction	Sheepsfoot Soil Compactor											
	Water Trucks											
	30-50-ton Excavator											
	12-20 CV Scrapers											
Utilities/Roads	Small Road Grader											
	Smooth Drum Roller											
	Tractor/Loader/Backhoe											
	Concrete Pump (Truck Mounted)											
Pile Driving	200-ton Crane											
	200-ton Crane											
	200-ton Crane											
	200-ton Crane											
Construction and Tenant Improvement	Misc Equipment (Generators, Compressors, etc.)											
	Concrete Pump (Truck Mounted)											
	Forklift											
	Front-end Loader											
Site Preparation (11 acre site)	Misc Equipment (Generators, Compressors, etc.)											
	Tractor/Loader/Backhoe											
	Excavator											
	Misc Equipment (Generators, Compressors, Paving Equipment)											
Grading (11 acre site)	24 CV Scrapers											
	18 CV Front-end Loader											
	Excavator											
	Graders											
Construction (11 acre site)	Water Truck											
	Concrete Pump (Truck Mounted)											
	Flatbed Truck											
	Forklift											
Perimeter Vapor Probes	Misc Equipment (Generators, Compressors, Paving Equipment)											
	Tractor/Loader/Backhoe											
	Water Truck											
	Water Truck											
Off-site Truck Trips	Tractor/Loader/Backhoe											
	Off-site Haul Trucks (Roundtrip)											
	Off-site Haul Trucks (Roundtrip)											
	Off-site Haul Trucks (Roundtrip)											
Fugitive Dust	Worker Trips - Calculated Total											
	Fugitive Dust (acres per day) - Max											
	Fugitive Dust (acres per day) - Normal											
	Fugitive Dust (yd3 per day) - Normal											

Phase	Equipment/Name	MP	Hours	Load	Trip Length	Year																																							
						Month																																							
						4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8																							
Site Preparation	8-CY Front-End Loaders	165	8	0.465	0.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																						
	8-24-CY Front-End Loaders	322	8	0.39	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																						
	Tracked Loader	255	8	0.41	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																						
	Water Truck	190	8	0.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																						
	40-Ton Off Highway Truck	417	8	0.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																						
Deep Dynamic Compaction	Buildozer	352	8	0.59																																									
	Front-end Loaders	165	8	0.465																																									
	Water Trucks	190	8	0.43																																									
Grading	Buildozer	352	8	0.59																																									
	Front-end Loaders	165	8	0.465																																									
	Grader	174	8	0.575																																									
	Scrapers	313	8	0.66																																									
	Water Truck	30	8	0.62																																									
Remediation Construction	12-30-CY Scrapper	313	8	0.66																																									
	30-50-ton Excavator	180	8	0.58																																									
	Front End Loaders	165	8	0.465																																									
	Hollow Stem Drill Rig	218	8	0.75																																									
	Small Road Grader	174	8	0.575																																									
	Smooth Drum Roller	114	8	0.43																																									
	Tractor/Loader/Backhoe	79	8	0.465																																									
	200-ton Crane	190	2	0.43																																									
	Concrete Pump (Truck Mounted)	190	8	0.62																																									
	Finish Grader	174	8	0.575																																									
	Misc. Equipment (Generators, Compressors, Paving Equipment)	190	8	0.62																																									
	Tractor/Loader/Backhoe	79	8	0.465																																									
	200-ton Crane	190	8	0.43																																									
30-50-ton Excavator	180	8	0.58																																										
Forklift	94	8	0.475																																										
Construction and Tenant Improvement	Misc. Equipment (Generators, Compressors, etc.)	190	8	0.62																																									
	200-ton Crane	190	2	0.43																																									
	Concrete Pump (Truck Mounted)	190	8	0.62																																									
	Forklift	94	8	0.475																																									
	Front end Loader	165	8	0.465																																									
	Misc. Equipment (Generators, Compressors, etc.)	190	8	0.62																																									
	Slinger Crane (Truck Mounted)	190	2	0.62																																									
	Tractor/Loader/Backhoe	79	8	0.465																																									
	Buildozer	352	8	0.59																																									
	Misc. Equipment (Generators, Compressors, Paving Equipment)	190	8	0.62																																									
	Misc. Equipment (Generators, Compressors, etc.)	190	8	0.62																																									
	Tractor/Loader/Backhoe	79	8	0.465																																									
	Water Truck	190	8	0.465																																									
	Grading (11 acre site)	24-CY Scrapper	313	8	0.66																																								
		8-CY Front-end Loader	165	8	0.465																																								
Buildozer		352	8	0.59																																									
Graders		174	8	0.575																																									
Soil Compactor		190	8	0.62																																									
Construction (11 acre site)	Water Truck	190	4	0.62																																									
	Concrete Pump (Truck Mounted)	190	8	0.62																																									
	Flashed Truck	190	8	0.62																																									
	Forklift	190	8	0.62																																									
	Misc. Equipment (Generators, Compressors, Paving Equipment)	190	8	0.62																																									
Perimeter Vapor Probes	Water Truck	79	8	0.465																																									
	Hollow Stem Drill Rig	218	8	0.75																																									
	Tractor/Loader/Backhoe	79	8	0.465																																									
	Offsite Delivery Trucks (Roundtrips)		20																																										
	Offsite Haul Trucks (Roundtrips)		30																																										
Off-site Truck Trips	Offsite Haul Trucks (Roundtrips)		20																																										
	Offsite Trash Trucks (Roundtrips)		20																																										
	Worker Trips - Calculated Total		20																																										
Worker Trips	Fugitive Dust (acres per day) - Max																																												
	Fugitive Dust (acres per day) - Normal																																												
	Fugitive Dust (acres per day) - Normal																																												
Fugitive Dust	Fugitive Dust (acres per day) - Normal																																												
	Fugitive Dust (acres per day) - Normal																																												

Phase	Equipment/Name	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3		
Site Preparation	8-8 CY Front-end Loaders																	
	Tracked Loader																	
Deep Dynamic Compaction	Water Truck																	
	250-ton Crane	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
	40-ton Off Highway Truck	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
	Bulldozer	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Grading	Front-end Loaders	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Water Trucks																	
Remediation Construction	Bulldozer	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	
	Front-end Loaders	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
	Grader	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
	Scrapers	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	
	Shredder/Soil Compactor	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	1200 CY Scrapers	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
	30-50 ton Excavator	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
	Front End Loader	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
	Hollow Stem Drill Rig	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
	Small Road Grader	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
	Smooth Drum Roller	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Utilities/Roads	Tractor Loader/Backhoe	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-ton Crane																	
	Concrete Pump (Truck Mounted)																	
	Finish Grader																	
	Misc Equipment (Generators, Compressors, Paving Equipment)																	
	Tractor Loader/Backhoe																	
	200-ton Crane																	
	30-50-ton Excavator																	
	Formfiller																	
	Misc Equipment (Generators, Compressors etc.)																	
	Construction and Tenant Improvement	Concrete Pump (Truck Mounted)																
Forklift																		
Front-end Loader																		
Misc Equipment (Generators, Compressors etc.)																		
Single Crane (Truck Mounted)																		
Tractor Loader/Backhoe																		
Bulldozer																		
Generator (Generators, Compressors, Paving Equipment)																		
Tractor Loader/Backhoe																		
Water Truck																		
Grading (11 acre site)		24-CY Scraper																
	8-CY Front-end Loader																	
	Bulldozer																	
	Graders																	
	Soil Compactor																	
	Water Truck																	
	Concrete Pump (Truck Mounted)																	
	Flatbed Truck																	
	Forklift																	
	Misc Equipment (Generators, Compressors, Paving Equipment)																	
	Tractor Loader/Backhoe																	
Construction (11 acre site)	Concrete Pump (Truck Mounted)																	
	Flatbed Truck																	
	Forklift																	
	Misc Equipment (Generators, Compressors, Paving Equipment)																	
	Tractor Loader/Backhoe																	
	Hollow Stem Drill Rig																	
	Tractor Loader/Backhoe																	
	Offsite Delivery Trucks (Roundtrips)																	
	Offsite Haul Trucks (Roundtrips)																	
	Offsite Trash Trucks (Roundtrips)																	
	Worker Trips	Worker Trips - Calculated Total	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.3	1.0	1.0	0.9	0.9	0.9	0.9
Worker Trips - Max		17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	
Fugitive Dust (acres per day) - Normal		118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0	
Fugitive Dust (acres per day) - Normal																		
Perimeter Vapor Probes	Offsite Delivery Trucks (Roundtrips)																	
	Offsite Haul Trucks (Roundtrips)																	
Worker Trips	Worker Trips - Calculated Total	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3	1.0	1.0	1.0	0.9	0.9	0.9	0.9	
	Worker Trips - Max	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	
Fugitive Dust	Fugitive Dust (acres per day) - Normal	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0	
	Fugitive Dust (acres per day) - Normal																	

Phase	Equipment/Name	2009	2010	2011	2012	1	2	3	4	5	6	7	8	9	10	11	12	
Site Preparation	8-CY Front-end Loaders																	
	Graders																	
	End Dump Trucks																	
	Tracked Loader																	
	Water Truck																	
	25-ton Crane																	
Deep Dynamic Compaction	40-ton Off Highway Truck																	
	Bulldozer																	
	Front-end Loaders																	
	Water Trucks																	
	Bulldozer	0.6																
	Front-end Loaders	0.1																
Grading	Graders	0.1																
	Scrapers	2.4																
	Graded and Soil Compactor	2.4																
	Water Trucks	0.0																
	17-30 CY Scrapers																	
	30-50-ton Excavator																	
Remediation Construction	Front End Loaders																	
	Hollow Stem Drill Rig																	
	Small Road Grader																	
	Smooth Drum Roller																	
	Tractor/Loader/Backhoe																	
	200-ton Crane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Utilities/Roads	Concrete Pump (Truck Mounted)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Finish Grader	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Misc Equipment (Generators, Compressors, Paving Equipment)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Tractor/Loader/Backhoe	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Tractor/Loader/Backhoe	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	200-ton Crane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pile Driving	30-50-ton Excavator																	
	Formfill																	
	Misc Equipment (Generators, Compressors etc.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Concrete Pump (Truck Mounted)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	Formfill	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Front-end Loader	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Construction and Tenant Improvement	Misc Equipment (Generators, Compressors etc.)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Singer Crane (Truck Mounted)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Tractor/Loader/Backhoe	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Bulldozer																	
	Misc Equipment (Generators, Compressors, Paving Equipment)																	
	Tractor/Loader/Backhoe																	
Site Preparation (11 acre site)	Water Truck																	
	24-CY Scaper																	
	8-CY Front-end Loader																	
	Bulldozer																	
	Graders																	
	Soil Compactor																	
Grading (11 acre site)	Water Truck																	
	Concrete Pump (Truck Mounted)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Flatbed Truck	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Formfill	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	Misc Equipment (Generators, Compressors, Paving Equipment)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Water Truck	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Construction (11 acre site)	Hollow Stem Drill Rig																	
	Tractor/Loader/Backhoe																	
	Off-site Delivery Trucks (Roundtrips)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Off-site Haul Trucks (Roundtrips)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Off-site Trash Trucks (Roundtrips)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Worker Trips - Calculated Total	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Perimeter Vapor Probes	Fugitive Dust (acres per day) - Max	17.5																
	Fugitive Dust (acres per day) - Normal	1180.0																
	Fugitive Dust (yds per day) - Normal	1180.0																



Phase	Equipment/Name	Hours	HP	Load	Year													
					2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	
Site Preparation	8-8 CY Front-end Loaders	8	165	0.65	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
	Bulldozer	8	352	0.59	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
	End Dump Trucks	8			0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Tracked Loader	8	255	0.41	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Deep Dynamic Compaction	250-ton Crane	8	190	0.43	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	40-ton Off Highway Truck	8	417	0.49														
	Bulldozer	8	352	0.59														
	Front-end Loaders	8	165	0.65														
Grading	Bulldozer	8	352	0.59														
	Front-end Loaders	8	165	0.65														
	Grader	8	174	0.57														
	Shredded Soil Compactor	8	50	0.62														
Remediation Construction	12-20 CY Scrapers	8	313	0.66	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8
	30-50-ton Excavator	8	180	0.58	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
	Front End Loaders	8	165	0.65	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	Hollow Stem Drill Rig	8	218	0.75	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
Utilities/Roads	Small Road Grader	8	114	0.43	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
	Smooth Drum Roller	8	79	0.65														
	Tractor/loader/Backhoe	8	79	0.65														
	200-ton Crane	2	190	0.43														
Pile Driving	Concrete Pump (Truck Mounted)	8	190	0.62														
	Tractor/Loader/Backhoe	8	79	0.65														
	Tractor/Loader/Backhoe	8	79	0.65														
	150-ton Pile Driver	8	190	0.62														
Construction and Tenant Improvement	30-50-ton Excavator	8	180	0.58														
	Forklift	8	94	0.47														
	Misc Equipment (Generators, Compressors etc.)	8	190	0.62														
	Concrete Pump (Truck Mounted)	2	190	0.43														
Site Preparation (11 acre site)	Front-end Loader	8	165	0.65														
	Misc Equipment (Generators, Compressors etc.)	8	190	0.62														
	Single Crane (Truck Mounted)	8	79	0.65														
	Bulldozer	8	352	0.59														
Grading (11 acre site)	Grader	8	174	0.57														
	Misc Equipment (Generators, Compressors Paving Equipment)	8	190	0.62														
	Tractor/Loader/Backhoe	8	79	0.65														
	Water Truck	8	79	0.65														
Construction (11 acre site)	24-CY Scraper	8	313	0.66														
	4-CY Front-end Loader	8	165	0.65														
	Bulldozer	8	352	0.59														
	Soil Compactor	8	190	0.62														
Perimeter Vapor Probes	Concrete Pump (Truck Mounted)	4	190	0.62														
	Flatbed Truck	8	190	0.62														
	Misc Equipment (Generators, Compressors Paving Equipment)	8	190	0.62														
	Tractor/loader/Backhoe	8	79	0.65														
Off-site Truck Trips	Hollow Stem Drill Rig	8	218	0.75														
	Tractor/Loader/Backhoe	8	79	0.65														
	Off-site Delivery Trucks (Roundtrips)	20	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
	Off-site Haul Trucks (Roundtrips)	30	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	
Worker Trips	Off-site Haul Trucks (Roundtrips)	20	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	
	Worker Trips - Calculated Total	20	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	
Architectural Coatings	Architectural Coatings - Commercial Square Footage per month																	
	Architectural Coatings - Residential Square Footage per month																	
Asphalt	Asphalt (acres per month)																	

Phase	Equipment Name	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4
Site Preparation	Excavator																
	Backhoe																
	Tracked Loader																
	Water Truck																
Deep Dynamic Compaction	250-ton Crane	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
	40-ton Off Highway Truck	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
	Bulldozer	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
	Front-end Loaders	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
Grading	Water Trucks	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Bulldozer	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4
	Front-end Loaders	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
	Grader	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
Remediation Construction	Scrapers	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9
	Front-end Loader	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	12-30 CY Scrapers	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8
	30-50-ton Excavator	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Utility/Roads	Front End Loaders	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	Hollow Stem Drill Rig	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	Small Road Grader	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
	Smooth Drum Roller	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Pile Driving	Tractor/Loader/Backhoe	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
	200-ton Crane	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	Concrete Pump (Truck Mounted)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	Finish Grader	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
Construction and Tenant Improvement	Misc Equipment (Generators, Compressors, Paving Equipment)	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	Misc Equipment (Generators, Compressors, Paving Equipment)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
	200-ton Crane	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	30-50-ton Excavator	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Site Preparation (11 acre site)	Forklift	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
	Misc Equipment (Generators, Compressors etc.)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	Concrete Pump (Truck Mounted)	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	Forklift	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Grading (11 acre site)	Misc Equipment (Generators, Compressors etc.)	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
	Single Crane (Truck Mounted)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	Tractor/Loader/Backhoe	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
	Bulldozer	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Construction (11 acre site)	Water Truck	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	24 CY Scraper	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
	8 CY Front-end Loader	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	Bulldozer	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Perimeter Vapor Probes	Graders	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
	Soil Compactor	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	Water Truck	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Concrete Pump (Truck Mounted)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Off-site Truck Trips	Crushed Truck	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Front-end Loader	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
	Misc Equipment (Generators, Compressors, Paving Equipment)	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
	Tractor/Loader/Backhoe	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Worker Trips	Water Truck	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Hollow Stem Drill Rig	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
	Tractor/Loader/Backhoe	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
	Off-site Delivery Trucks (Roundtrips)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Architectural Coatings	Off-site Haul Trucks (Roundtrips)	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
	Off-site Trash Trucks (Roundtrips)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	Worker Trips - Calculated Total	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	Architectural Coatings - Commercial Square Footage per month	391.9	391.9	391.9	391.9	391.9	391.9	391.9	391.9	391.9	391.9	391.9	391.9	391.9	391.9	391.9	391.9
Asphalt	Architectural Coatings - Residential Square Footage per month	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2
	Asphalt (perres per month)	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2

Phase	Equipment/Name	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	
Site Preparation	6-8 CY Front-end Loaders																		
	Excavator																		
	End Dump Trucks																		
	Water Truck																		
Deep Dynamic Compaction	250-ton Crane																		
	40-ton Off Highway Truck																		
Grading	Buildozer																		
	Front-end Loaders																		
	Water Trucks																		
	Buildozer																		
	Front-end Loaders																		
	Grader																		
	Scrapers																		
	Sheepsfoot Soil Compactor																		
	Water Trucks																		
	Remediation Construction	12-20 CY Scrapers																	
Front End Loaders																			
Front End Loader																			
Hollow Stem Drill Rig																			
Small Road Grader																			
Smooth Drum Roller																			
Tractor/Loader/Backhoe																			
200-ton Crane																			
Concrete Pump (Truck Mounted)																			
Finish Grader																			
Utilities/Roads	Misc Equipment (Generators, Compressors Paving Equipment)																		
	Tractor/Loader/Backhoe																		
	150-ton Pile Driver																		
	150-ton Crane																		
	300-ton Excavator																		
	Front-End Loader																		
	Misc Equipment (Generators, Compressors etc.)																		
	200-ton Crane																		
	Concrete Pump (Truck Mounted)																		
	Forklift																		
Construction and Tenant Improvement	Front-end Loader																		
	Misc Equipment (Generators, Compressors etc.)																		
	Stringer Crane (Truck Mounted)																		
	Tractor/Loader/Backhoe																		
	Buildozer																		
	Grader																		
	Misc Equipment (Generators, Compressors Paving Equipment)																		
	Tractor/Loader/Backhoe																		
	Water Truck																		
	Site Preparation (11 acre site)	24-CY Scraper																	
Buildozer																			
Graders																			
Soil Compactor																			
Water Truck																			
Concrete Pump (Truck Mounted)																			
Flatbed Truck																			
Forklift																			
Misc Equipment (Generators, Compressors Paving Equipment)																			
Grading (11 acre site)		Tractor/Loader/Backhoe																	
	Water Truck																		
	Water Truck																		
	Concrete Pump (Truck Mounted)																		
	Flatbed Truck																		
	Forklift																		
	Misc Equipment (Generators, Compressors Paving Equipment)																		
	Tractor/Loader/Backhoe																		
	Water Truck																		
	Construction (11 acre site)	Water Truck																	
Concrete Pump (Truck Mounted)																			
Flatbed Truck																			
Forklift																			
Misc Equipment (Generators, Compressors Paving Equipment)																			
Tractor/Loader/Backhoe																			
Water Truck																			
Water Truck																			
Tractor/Loader/Backhoe																			
Perimeter Vapor Probes		Tractor/Loader/Backhoe																	
	Off-site Delivery Trucks (Roundtrips)																		
	Off-site Haul Trucks (Roundtrips)																		
	Off-site Trash Trucks (Roundtrips)																		
	Off-site Haul Trucks (Roundtrips)																		
	Off-site Trash Trucks (Roundtrips)																		
	Worker Trips - Calculated Total																		
	Architectural Coatings - Commercial Square Footage per month																		
	Architectural Coatings - Residential Square Footage per month																		
	Asphalt	Asphalt (acres per month)																	
Asphalt (acres per month)																			

Phase	Equipment Name	Hours	HP	Load	Triplen Length	2006												2007									
						1	2	3	4	5	6	7	8	9	10	11	12	1	2	3							
Site Preparation	8-8 CY Front-end Loaders	8	165	0.465																							
	Buildozer	8	352	0.59																							
	Tracked Loader	5																									
Deep Dynamic Compaction	350-ton Crane	8	255	0.41																							
	40-ton Off Highway Truck	8	150	0.43																							
	Buildozer	8	417	0.49																							
Grading	Front-end Loaders	8	352	0.59																							
	Water Trucks	8	165	0.465																							
	Buildozer	8	352	0.59																							
Remediation/Construction	Front-end Loaders	8	165	0.465																							
	Scrapers	8	174	0.575																							
	Grader	8	313	0.66																							
Pile Driving	Sheepfoot Soil Compactor	8	30	0.62																							
	Water Trucks	8	313	0.66																							
	30-50-ton Excavator	8	180	0.58																							
Utilities/Roads	Front End Loaders	8	165	0.465																							
	Hollow Stem Drill Rig	8	218	0.75																							
	Small Road Grader	8	174	0.575																							
Construction and Tenant Improvement	Smooth Drum Roller	8	114	0.43																							
	Tractor/Loader/Backhoe	8	79	0.465																							
	200-ton Crane	2	190	0.43																							
Site Preparation (11 acre site)	Concrete Pump (Truck Mounted)	8	190	0.62																							
	Finish Grader	8	174	0.575																							
	Misc. Equipment (Generators, Compressors, Paving Equipment)	8	190	0.62																							
Grading (11 acre site)	Tractor/Loader/Backhoe	8	79	0.465																							
	Tractor/Loader/Backhoe	8	190	0.62																							
	Tractor/Loader/Backhoe	8	150	0.465																							
Construction (11 acre site)	Water Truck	8	79	0.465																							
	24-CY Scraper	8	313	0.66																							
	8-CY Front-end Loader	8	165	0.465																							
Perimeter Vapor Probes	Buildozer	8	352	0.59																							
	Graders	8	174	0.575																							
	Soil Compactor	8	190	0.62																							
Off-site Truck Trips	Water Truck	4	190	0.62																							
	Concrete Pump (Truck Mounted)	8	190	0.62																							
	Failed Truck	20																									
Architectural Coatings	Misc. Equipment (Generators, Compressors, Paving Equipment)	8	190	0.62																							
	Tractor/Loader/Backhoe	8	79	0.465																							
	Tractor/Loader/Backhoe	8	190	0.62																							
Asphalt	Hollow Stem Drill Rig	8	218	0.75																							
	Offsite Delivery Trucks (Roundtrips)	20																									
	Offsite Haul Trucks (Roundtrips)	30																									
Asphalt	Worker Trips - Calculated Total	20																									
	Architectural Coatings - Commercial Square Footage per month																										
	Architectural Coatings - Residential Square Footage per month																										

Phase	Equipment/Name	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4
Site Preparation	8-8 CY Front-end Loaders																
	Bulldozer																
	End Dump Trucks																
	Tracked Loader																
Deep Dynamic Compaction	Water Truck																
	250-ton Crane	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
	40-ton Off Highway Truck	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
	Bulldozer	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
Grading	Water Trucks	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Bulldozer	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
	Front-end Loaders	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
	Grader	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Remediation Construction	Scrapers	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
	Sheepsfoot Soil Compactor	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
	Water Trucks	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	12-20 CY Scrapers	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6
	30-Skip-on Excavator	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
	Front End Loaders	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	Yellow Stem Drill Rig	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
	Small Road Grader	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
	Tractor/Loader/Backhoe	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
	Tractor/Loader/Backhoe	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
	200-ton Crane	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
	Concrete Pump (Truck Mounted)	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Pile Driving	Finish Grader	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	Misc Equipment (Generators, Compressors, Paving Equipment)	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
	Tractor/Loader/Backhoe	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
	150-ton Pile Driver	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
Construction and Tenant Improvement	200-ton Crane	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	30-Skip-on Excavator	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
	Forklift	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
	Misc Equipment (Generators, Compressors, etc.)	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
	200-ton Crane	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
	Concrete Pump (Truck Mounted)	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
	Forklift	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
	Front-end Loader	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	
	Misc Equipment (Generators, Compressors, etc.)	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
	Slings Crane (Truck Mounted)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
	Tractor/Loader/Backhoe	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	
	Site Preparation (11 acre site)	Bulldozer	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
Grader		1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Misc Equipment (Generators, Compressors, Paving Equipment)		2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Tractor/Loader/Backhoe		0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	
Grading (11 acre site)	Water Truck	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	24-CY Stripper	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
	8-CY Front-end Loader	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	Bulldozer	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
Construction (11 acre site)	Soil Compactor	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
	Water Truck	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
	Concrete Pump (Truck Mounted)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
	Flatbed Truck	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Perimeter Vapor Probes	Forklift	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
	Misc Equipment (Generators, Compressors, Paving Equipment)	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
	Tractor/Loader/Backhoe	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	Water Truck	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Off-site Truck Trips	Yellow Stem Drill Rig	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	Tractor/Loader/Backhoe	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
	Offsite Delivery Trucks (Roundtrips)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	Offsite Haul Trucks (Roundtrips)	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	
Worker Trips	Water Trucks (Roundtrips)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	Worker Trips - Calculated Total	3.0	3.0	3.0	3.0	3.5	4.5	4.9	4.4	4.4	16.2	15.3	15.3	15.3	15.3	15.3	15.3
	Architectural Coatings - Commercial Square Footage per month																
	Architectural Coatings - Residential Square Footage per month																
Asphalt	Asphalt (acres per month)																
	Asphalt (acres per month)																

Phase	Equipment Name	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Site Preparation	6-8 CY Front-end Loaders											
	Bulldozer											
	Tracked Loader											
	Water Truck											
Deep Dynamic Compaction	250-ton Crane											
	40-ton Off Highway Truck											
	Bulldozer											
	Water Trucks											
Grading	Bulldozer											
	Front-end Loaders											
	Graders											
	Shovel/Backhoe											
Remediation Construction	Water Trucks											
	12-20 CY Scrapers											
	30-50-ton Excavator											
	Front End Loaders											
Utilities/Roads	Hollow Stem Drill Rig											
	Small Road Grader											
	Smooth Drum Roller											
	Tractor/Loader/Backhoe											
Pile Driving	200-ton Crane											
	Concrete Pump (Truck Mounted)											
	Misc Equipment (Generators, Compressors, Paving Equipment)											
	Tractor/Loader/Backhoe											
Construction and Tenant Improvement	150-ton Pile Driver											
	200-ton Crane											
	30-50-ton Excavator											
	Misc Equipment (Generators, Compressors, etc.)											
Site Preparation (11 acre site)	Concrete Pump (Truck Mounted)											
	Forklift											
	Front-end Loader											
	Misc Equipment (Generators, Compressors, etc.)											
Grading (11 acre site)	Single Crane (Truck Mounted)											
	Bulldozer											
	Tractor/Loader/Backhoe											
	Misc Equipment (Generators, Compressors, Paving Equipment)											
Construction (11 acre site)	Water Truck											
	24-CY Scraper											
	Bulldozer											
	Graders											
Perimeter Vapor Probes	Soil Compactor											
	Water Truck											
	Concrete Pump (Truck Mounted)											
	Grader											
Off-site Truck Trips	Water Truck											
	24-CY Front-end Loader											
	Bulldozer											
	Graders											
Worker Trips	Soil Compactor											
	Water Truck											
	Concrete Pump (Truck Mounted)											
	Grader											
Architectural Coatings	Water Truck											
	Concrete Pump (Truck Mounted)											
	Grader											
	Water Truck											
Asphalt	Water Truck											
	Concrete Pump (Truck Mounted)											
	Grader											
	Water Truck											



Phase	Equipment Name	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	
Site Preparation	8-8 CY Front-End Loaders																			
	End Dump Trucks																			
	Tracked Loader																			
	Water Truck																			
Deep Dynamic Compaction	250-ton Crane																			
	40-ton Off Highway Truck																			
	Bulldozer																			
	Front-End Loaders																			
Grading	Water Trucks																			
	Bulldozer																			
	Front-End Loaders																			
	Shovel																			
Remediation Construction	Sheepsfoot Soil Compactor																			
	Water Trucks																			
	12-20 CY Scrapers																			
	30-50-ton Excavator																			
Utilities/Roads	Front-End Loaders																			
	Hollow Stem Drill Rig																			
	Small Road Grader																			
	Smooth Drum Roller																			
Pile Driving	Tractor Loader/Backhoe																			
	Concrete Pump (Truck Mounted)																			
	Finish Grader																			
	Misc Equipment (Generators, Compressors, Paving Equipment)																			
Construction and Tenant Improvements	Tractor Loader/Backhoe																			
	150-ton Pile Driver																			
	200-ton Crane																			
	30-50-ton Excavator																			
Site Preparation (11 acre site)	Misc Equipment (Generators, Compressors, etc.)																			
	Concrete Pump (Truck Mounted)																			
	Forklift																			
	Misc Equipment (Generators, Compressors, etc.)																			
Grading (11 acre site)	Tractor Loader/Backhoe																			
	24 CY Scraper																			
	8 CY Front-End Loader																			
	Bulldozer																			
Construction (11 acre site)	Graders																			
	Soil Compactor																			
	Water Truck																			
	Concrete Pump (Truck Mounted)																			
Perimeter Vapor Probes	Flatbed Truck																			
	Forklift																			
	Misc Equipment (Generators, Compressors, Paving Equipment)																			
	Tractor Loader/Backhoe																			
Off-site Truck Trips	Water Truck																			
	Hollow Stem Drill Rig																			
	Tractor Loader/Backhoe																			
	Tractor Loader/Backhoe																			
Worker Trips	Off-site Delivery Trucks (Roundtrips)																			
	Off-site Haul Trucks (Roundtrips)																			
	Off-site Trash Trucks (Roundtrips)																			
	Worker Trips - Calculated Total																			



Phase	Equipment/Name	19	20	21	22	23	24	25	26	27	28	29
Site Preparation	6-8 CY Front-end Loaders											
	Bulldozer											
	End Dump Trucks											
	Tracked Loader											
Deep Dynamic Compaction	Water Truck											
	250-ton Crane											
	40-ton Off Highway Truck											
	Bulldozer											
Grading	Front-end Loaders											
	End Dump Trucks											
	Front-end Loaders											
	Grader											
Remediation Construction	Scrapers											
	Steep-sloped Soil Compactor											
	Water Trucks											
	12-20 CY Scrapers											
	30-50-ton Excavator											
	Front End Loaders											
	Self-Propelled Drill Rig											
	Smooth Drum Roller											
	Tractor/Loader/Backhoe											
	200-ton Crane											
Utilities/Roads	Concrete Pump (Truck Mounted)											
	Finish Grader											
	Misc Equipment (Generators, Compressors, Paving Equipment)											
	Tractor/Loader/Backhoe											
	150-ton Pile Driver											
	200-ton Crane											
	30-ton Excavator											
	Forklift											
	Misc Equipment (Generators, Compressors, etc.)											
	Concrete Pump (Truck Mounted)											
Construction and Tenant Improvements	Concrete Pump (Truck Mounted)											
	Forklift											
	Front-end Loader											
	Misc Equipment (Generators, Compressors, etc.)											
	Slings Crane (Truck Mounted)											
	Tractor/Loader/Backhoe											
	Bulldozer											
	Tractor/Loader/Backhoe											
	Generator											
	Misc Equipment (Generators, Compressors, Paving Equipment)											
Site Preparation (11 acre site)	Tractor/Loader/Backhoe											
	Water Truck											
	24 CY Scraper											
	6-CY Front-end Loader											
Grading (11 acre site)	Bulldozer											
	Graders											
	Soil Compactor											
	Water Truck											
Construction (11 acre site)	Concrete Pump (Truck Mounted)											
	End Dump Trucks											
	Forklift											
	Misc Equipment (Generators, Compressors, Paving Equipment)											
Perimeter Vapor Probes	Tractor/Loader/Backhoe											
	Water Truck											
	Hollow Stem Drill Rig											
	Tractor/Loader/Backhoe											
Off-site Truck Trips	Off-site Delivery Trucks (Roundtrips)											
	Off-site Haul Trucks (Roundtrips)											
	Off-site Trash Trucks (Roundtrips)											
	Worker Trips - Calculated Total											
<b>Worker Trips</b>												



Phase	Equipment/Name	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	
Site Preparation	6-8 CY Front-end Loaders																			
	Buildozer																			
	End Dump Trucks																			
	Tracked Loader																			
Deep Dynamic Compaction	Water Truck																			
	25-ton Crane	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
	Highway Truck	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
	Front-end Loaders	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
Grading	Water Trucks	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	Buildozer	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
	Front-end Loaders	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
	Grader	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Remediation Construction	Scrapers	464.5	464.5	464.5	464.5	464.5	464.5	464.5	464.5	464.5	464.5	464.5	464.5	464.5	464.5	464.5	464.5	464.5	464.5	464.5
	Sheepsfoot Soil Compactor	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
	Water Trucks	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	12-20 CY Scrapers	123.9	123.9	123.9	123.9	123.9	123.9	123.9	123.9	123.9	123.9	123.9	123.9	123.9	123.9	123.9	123.9	123.9	123.9	123.9
Utilities/Roads	25-ton Crane	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3
	25-ton Excavator	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0
	Hollow Stem Drill Rig	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
	Small Road Grader	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
Construction and Tenant Improvements	Tractor/Loader/Backhoe	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
	200-ton Crane	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
	Concrete Pump (Truck Mounted)	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9
	Finish Grader	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Pile Driving	Misc. Equipment (Generators, Compressors, Paving Equipment)	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9
	Tractor/Loader/Backhoe	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
	25-ton Crane	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1
	50-55-ton Excavator	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3
Site Preparation (11 acre site)	Forklift	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
	Misc. Equipment (Generators, Compressors, etc.)	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
	Concrete Pump (Truck Mounted)	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1
	Grader	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Grading (11 acre site)	Misc. Equipment (Generators, Compressors, Paving Equipment)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
	Tractor/Loader/Backhoe	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	Water Truck	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0
	24-CY Scraper	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
Construction (11 acre site)	Buildozer	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1
	Graders	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
	Misc. Equipment (Generators, Compressors, etc.)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	Water Truck	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Perimeter Vapor Probes	Concrete Pump (Truck Mounted)	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
	Forklift	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9
	Misc. Equipment (Generators, Compressors, Paving Equipment)	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9
	Tractor/Loader/Backhoe	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
Off-site Truck Trips	Water Truck	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	Hollow Stem Drill Rig	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
	Tractor/Loader/Backhoe	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
	Off-site Delivery Trucks (Roundtrips)	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Worker Trips	Off-site Fuel Trucks (Roundtrips)	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
	Misc. Fuel Trucks (Roundtrips)	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8
	Worker Trips - Calculated Total	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8
	Worker Trips - Calculated Total	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1

Phase	Equipment/Name	09	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9
Site Preparation	6.8 CY Front-end Loaders																
	End Dump Trucks																
	Tracked Loader																
	Water Truck																
Deep Dynamic Compaction	250-ton Crane																
	40-ton Off Highway Truck																
	Buildozer																
	Front-end Loaders																
Grading	Backhoes																
	Front-end Loaders																
	Grader																
	Scrapers																
Remediation Construction	Sheepsfoot Soil Compactor																
	Water Trucks																
	12-20 CY Scrapers																
	Front End Loaders																
Utilities/Roads	Hollow Slim Drill Rig																
	Smooth Drum Roller																
	Tractor/Loader/Backhoe																
	Concrete Pump (Truck Mounted)																
Pile Driving	Finish Grader																
	Misc Equipment (Generators, Compressors, Paving Equipment)																
	Tractor/Loader/Backhoe																
	150-ton Pile Driver																
Construction and Tenant Improvements	200-ton Crane																
	Misc Equipment (Generators, Compressors, etc.)																
	Concrete Pump (Truck Mounted)																
	Forklift																
Site Preparation (11 acre site)	Front-end Loader																
	Misc Equipment (Generators, Compressors, etc.)																
	Slinger Crane (Truck Mounted)																
	Tractor/Loader/Backhoe																
Grading (11 acre site)	Buildozer																
	Misc Equipment (Generators, Compressors, Paving Equipment)																
	Tractor/Loader/Backhoe																
	Water Truck																
Construction (11 acre site)	24-CY Scraper																
	8-CY Front-end Loader																
	Buildozer																
	Soil Compactor																
Perimeter Vapor Probes	Water Truck																
	Concrete Pump (Truck Mounted)																
	Forklift																
	Misc Equipment (Generators, Compressors, Paving Equipment)																
Off-site Truck Trips	Tractor/Loader/Backhoe																
	Water Truck																
	Hollow Slim Drill Rig																
	Tractor/Loader/Backhoe																
Worker Trips	Offsite Delivery Trucks (Roundtrips)																
	Offsite Haul Trucks (Roundtrips)																
	Offsite Trash Trucks (Roundtrips)																
	Worker Trips - Calculated Total	112.8	112.8	58.6	45.6	40.8	28.3	28.3	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8

Phase	EquipmentName	Hours	HP	Load	Trip Length	Year													
						2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Site Preparation	6-8 CY Front-end Loaders	8	165	0.465		15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.3	15.3	15.3	15.3	15.3
	Bulldozer	8	352	0.59		55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	53.1	53.1	53.1	53.1	53.1
	End Dump Trucks	8	255	0.41	5	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	13.4	13.4	13.4	13.4	13.4
	Tracked Loader	8	255	0.41	5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	Water Truck	8	190	0.43		42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0
Deep Dynamic Compaction	250-ton Crane	8	477	0.49		18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6
	40-ton Off Highway Truck	8	352	0.59		18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6
	Bulldozer	8	161	0.465		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	Water Trucks	8	352	0.59	5														
Grading	Front-end Loaders	8	165	0.465															
	Grader	8	174	0.575															
	Scrapers	8	313	0.66															
Remediation Construction	Sheepsfoot Soil Compactor	8	50	0.62															
	Water Trucks	8	313	0.66	5														
	12-20 CY Scrapers	8	313	0.66															
	30-50-ton Excavator	8	180	0.38															
	Front-End Loaders	8	165	0.465															
	Skid Steer Loader	8	174	0.575															
	Smooth Drum Roller	8	144	0.43															
	Tractor/Loader/Backhoe	8	79	0.465															
	200-ton Crane	2	190	0.43															
	Concrete Pump (Truck Mounted)	8	190	0.62															
	Construction and Tenant Improvements	Finish Grader	8	174	0.575														
Misc Equipment (Generators, Compressors, Paving Equipment)		8	190	0.62															
Tractor/Loader/Backhoe		8	79	0.465															
150-ton Pile Driver		8	190	0.62															
200-ton Crane		2	190	0.43															
30-50-ton Excavator		8	180	0.38															
Forklift		8	94	0.475															
Misc Equipment (Generators, Compressors, etc.)		8	190	0.62															
Concrete Pump (Truck Mounted)		8	190	0.62															
Forklift		8	94	0.475															
Front-end Loader		8	165	0.465															
Site Preparation (11 acre site)		Misc Equipment (Generators, Compressors, etc.)	2	190	0.62														
	Skid Steer Loader	2	190	0.62															
	Tractor/Loader/Backhoe	8	79	0.465															
	Generator	8	174	0.575															
	Misc Equipment (Generators, Compressors, Paving Equipment)	8	190	0.62															
	Tractor/Loader/Backhoe	8	79	0.465															
	Water Truck	8	313	0.66	5														
	24-CY Scraper	8	165	0.465															
	6-CY Front-end Loader	8	352	0.59															
	Bulldozer	8	174	0.575															
Grading (11 acre site)	Graders	8	190	0.62															
	Soil Compactor	8	190	0.62															
	Water Truck	8	313	0.66															
	Concrete Pump (Truck Mounted)	4	190	0.62															
	Forklift	8	190	0.62	20														
	Misc Equipment (Generators, Compressors, Paving Equipment)	8	190	0.62															
	Tractor/Loader/Backhoe	8	79	0.465															
	Water Truck	8	313	0.66															
	Hollow Stem Drill Rig	8	218	0.75															
	Perimeter Vapor Probes	Tractor/Loader/Backhoe	8	79	0.465														
Off-site Delivery Trucks (Roundtrips)		20																	
Off-site Trash Trucks (Roundtrips)		30																	
Off-site Fuel Trucks (Roundtrips)		20																	
Worker Trips	Worker Trips - Calculated Total					0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
						1.5	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2

Phase	Equipment Name	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	
Site Preparation	6-8 CY Front-end Loaders																			
	Buildozer																			
	End Dump Trucks																			
	Tracked Loader																			
Deep Dynamic Compaction	Water Truck																			
	250-ton Crane	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
	Scissor Lift Highway Truck	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
	Front-end Loader	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3
Grading	Water Trucks	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	Buildozer	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
	Front-end Loaders	15.3	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9
	Grader	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2
Remediation Construction	Scraper	326.0	320.3	320.3	320.3	320.3	320.3	320.3	320.3	320.3	320.3	320.3	320.3	320.3	320.3	320.3	320.3	320.3	320.3	320.3
	Sheepsfoot Soil Compactor	11.9	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3
	Water Trucks	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	12-20 CY Scraper	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
Pile Driving	30-ton Excavator	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3
	Hydraulic Hammer	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
	Small Road Grader	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
	Smooth Drum Roller	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
Construction and Tenant Improvements	Tractor/Loader/Backhoe	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
	200-ton Crane																			
	Concrete Pump (Truck Mounted)																			
	Finish Grader																			
Misc. Equipment (Generators, Compressors, Paving Equipment)	Misc. Equipment (Generators, Compressors, Paving Equipment)																			
	Generator/Backhoe																			
	300-Pile Driver	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2
	300-500-ton Excavator	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3
Site Preparation (11 acre site)	Forklift	4.4	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	Misc. Equipment (Generators, Compressors, etc.)	15.1	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
	Concrete Pump (Truck Mounted)																			
	Forklift																			
Grading (11 acre site)	Misc. Equipment (Generators, Compressors, Paving Equipment)																			
	Tractor/Loader/Backhoe																			
	Water Truck																			
	24-CY Scraper																			
Construction (11 acre site)	8-CY Front-end Loader																			
	Buildozer																			
	Graders																			
	Misc. Compactor																			
Off-site Truck Trips	Water Truck																			
	Concrete Pump (Truck Mounted)																			
	Filled Truck																			
	Forklift																			
Perimeter Vapor Probes	Misc. Equipment (Generators, Compressors, Paving Equipment)																			
	Tractor/Loader/Backhoe																			
	Water Truck																			
	Water Truck																			
Worker Trips	Off-site Delivery Trucks (Roundtrips)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	Off-site Fuel Trucks (Roundtrips)	320.7	320.7	320.7	320.7	320.7	320.7	320.7	320.7	320.7	320.7	320.7	320.7	320.7	320.7	320.7	320.7	320.7	320.7	320.7
	Off-site Fuel Trucks (Roundtrips)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	Worker Trips - Concated Total	15.1	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3

Phase	Equipment/Name	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	
Site Preparation	6-8 CY Front-end Loaders																
	Bulldozer																
	End Dump Trucks																
	Tracked Loader																
Deep Dynamic Compaction	Water Truck																
	250-ton Crane																
	40-ton Off Highway Truck																
	Bulldozer																
Grading	Front-end Loaders																
	Backhoes																
	Front-end Loaders																
	Grader																
Remediation Construction	Scrapers																
	Sheepsfoot Soil Compactor																
	Water Trucks																
	12-20 CY Scrapers																
	Front End Loaders																
	Hollow Stem Drill Rig																
	Small Backhoe																
	Smooth Drum Roller																
	Tractor/Loader/Backhoe																
	200-ton Crane																
Utilities/Roads	Concrete Pump (Truck Mounted)																
	Finish Grader																
	Misc Equipment (Generators, Compressors, Paving Equipment)																
	Tractor/Loader/Backhoe																
	150-ton Pile Driver																
	200-ton Crane																
	200-ton Excavator																
	Forklift																
	Misc Equipment (Generators, Compressors, etc.)																
	Concrete Pump (Truck Mounted)																
Construction and Tenant Improvements	Forklift																
	Front-end Loader																
	Misc Equipment (Generators, Compressors, etc.)																
	Slinger Crane (Truck Mounted)																
	Tractor/Loader/Backhoe																
	Bulldozer																
	Misc Equipment (Generators, Compressors, Paving Equipment)																
	Tractor/Loader/Backhoe																
	Water Truck																
	24 CY Scraper																
Grading (11 acre site)	8-CY Front-end Loader																
	Bulldozer																
	Graders																
	Soil Compactor																
	Water Truck																
	Concrete Pump (Truck Mounted)																
	Front-end Loader																
	Misc Equipment (Generators, Compressors, Paving Equipment)																
	Tractor/Loader/Backhoe																
	Water Truck																
Perimeter Vapor Probes	Hollow Stem Drill Rig																
	Tractor/Loader/Backhoe																
	Offsite Delivery Trucks (Roundtrips)																
	Offsite Haul Trucks (Roundtrips)																
Off-site Truck Trips	Offsite Haul Trucks (Roundtrips)																
	Offsite Trash Trucks (Roundtrips)																
Worker Trips	Worker Trips - Calculated Total																
		118	118	61	61	48	43	29	29	0.3	0.3	0.3	0.3	0.3	0.3	0.3	





Phase	Equipment Name	1	2	3	4	5	6	2008	7	8	9	10	11	12	1	2	3	4	5	6	
Site Preparation	6-3 CY Front-end Loaders																				
	Buildozer																				
	End Dump Trucks																				
	Tracked Loader																				
Deep Dynamic Compaction	Water Truck																				
	250-ton Crane	17.4	17.4																		
	Alison OH Highway Truck	44.2	44.2																		
	Buildozer	16.9	16.9																		
Grading	Water Trucks	0.2	0.2																		
	Buildozer	83.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	75.6	75.6	75.6	75.6	75.6	75.6	75.6
	Front-end Loaders	16.1	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7
	Grader	21.6	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	20.9	20.9	20.9	20.9	20.9	20.9
Remediation Construction	Shrapnel	342.1	337.2	337.2	337.2	337.2	337.2	337.2	337.2	337.2	337.2	337.2	337.2	337.2	332.3	332.3	332.3	332.3	332.3	332.3	332.3
	Water Trucks	12.5	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.3	11.3	11.3	11.3	11.3	11.3	11.3
	Water Trucks	91.2	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
	30-50-ton Excavator	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4
Utilities/Roads	Front-end Loader	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5
	Small Road Grader	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.6	10.6	10.6	10.6	10.6	10.6	10.6
	Smooth Drum Roller	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.0	10.0	10.0	10.0	10.0	10.0	10.0
	Tractor/Loader/Backhoe	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.7	4.7	4.7	4.7	4.7	4.7	4.7
Pile Driving	Concrete Pump (Truck Mounted)																				
	Finish Grader																				
	Misc Equipment (Generators, Compressors, Paving Equipment)																				
	Tractor/Loader/Backhoe	47.6	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	42.9	42.9	42.9	42.9	42.9	42.9	42.9
Construction and Tenant Improvements	30-ton Pile Driver	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4
	30-50-ton Excavator	4.7	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	Forklift	15.9	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	14.3	14.3	14.3	14.3	14.3	14.3	14.3
	Misc Equipment (Generators, Compressors, etc.)																				
Site Preparation (11 acre site)	Concrete Pump (Truck Mounted)																				
	Forklift																				
	Front-end Loader																				
	Misc Equipment (Generators, Compressors, etc.)																				
Grading (11 acre site)	Water Truck																				
	Grader																				
	Misc Equipment (Generators, Compressors, Paving Equipment)																				
	Tractor/Loader/Backhoe																				
Construction (11 acre site)	Water Truck																				
	Graders																				
	Misc Equipment (Generators, Compressors, Paving Equipment)																				
	Tractor/Loader/Backhoe																				
Off-site Truck Trips	Water Truck																				
	Hollow Stem Drill Rig																				
	Tractor/Loader/Backhoe																				
	Office Delivery Trucks (Roundtrips)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Worker Trips	Office Haul Trucks (Roundtrips)	320.7	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9	18.1	18.1	18.1	18.1	18.1	18.1	18.1
	Worker Trips - Calculated Total	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5

Phase	Equipment Name	09	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	
Site Preparation	64-CY Front-end Loaders																	
	Buildzer																	
	End Dump Trucks																	
	Tracked Loader																	
Deep Dynamic Compaction	Water Truck																	
	250-ton Crane																	
	40-ton Off Highway Truck																	
	Buildzer																	
Grading	Front-end Loaders																	
	Water Trucks																	
	Front-end Loaders																	
	Grader																	
Remediation Construction	Scrapers																	
	Sheepsfoot Soil Compactor																	
	Water Trucks																	
	12-20 CV Scrapers																	
	30-50-ton Excavator																	
	Front End Loaders																	
	Hollow Stem Drill Rig																	
	Small Tracked Loader																	
	Small Tracked Loader																	
	Tractor/Loader/Backhoe																	
	Utilities/Roads	200-ton Crane	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Concrete Pump (Truck Mounted)		14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	
Finish Grader		10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	
Misc Equipment (Generators, Compressors, Paving Equipment)		14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	
Tractor/Loader/Backhoe		4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	
150-ton Pile Driver																		
200-ton Crane																		
20-ton Excavator																		
Misc Equipment (Generators, Compressors, etc.)																		
Misc Equipment (Generators, Compressors, etc.)		2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	
200-ton Crane		28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	
Concrete Pump (Truck Mounted)																		
Forklift	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8		
Front-end Loader	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5		
Misc Equipment (Generators, Compressors, etc.)	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2		
Slinger Crane (Truck Mounted)	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6										
Tractor/Loader/Backhoe	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2		
Site Preparation (11 acre site)	Buildzer																	
	Misc Equipment (Generators, Compressors, Paving Equipment)																	
	Misc Equipment (Generators, Compressors, Paving Equipment)																	
	Tractor/Loader/Backhoe																	
	Water Truck																	
	24-CY Scraper																	
	8-CY Front-end Loader																	
	Buildzer																	
	Graders																	
	Soil Compactor																	
	Water Truck																	
Construction (11 acre site)	Concrete Pump (Truck Mounted)	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	
	Graded Truck	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	
	End Dump Truck	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	
	Misc Equipment (Generators, Compressors, Paving Equipment)	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	
Perimeter Vapor Probes	Tractor/Loader/Backhoe	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	
	Water Truck	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	
	Hollow Stem Drill Rig																	
	Tractor/Loader/Backhoe																	
Off-site Truck Trips	Tractor/Loader/Backhoe	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	
	Off-site Delivery Trucks (Roundtrips)	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	
	Off-site Haul Trucks (Roundtrips)	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	
	Off-site Trash Trucks (Roundtrips)	1.18	1.18	1.18	1.18	1.18	1.18	1.18	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	
Worker Trips								0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3		

Phase	Equipment Name	Hours	HP	Load	Trip Length	Year	1	2	3	4	5	6	7	8
Site Preparation	6-8 CY Front-end Loaders	8	165	0.465	0.1	2006	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Bulldozer	8	352	0.59	0.5	2006	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	End Dump Trucks	5			0.0	2006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Tracked Loader	8	255	0.41	0.1	2006	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Water Truck	5			0.0	2006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Deep Dynamic Compaction	250-ton Crane	8	190	0.43	0.1	2006	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	40-ton Off Highway Truck	8	417	0.49	0.1	2006	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Bulldozer	8	352	0.59	0.5	2006	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	Front-end Loaders	8	165	0.465	0.1	2006	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Water Trucks	5			0.0	2006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Grading	Bulldozer	8	352	0.59	0.5	2007	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	Front-end Loaders	8	165	0.465	0.1	2007	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Scrapers	8	313	0.66	0.1	2007	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Sheepsfoot Soil Compactor	8	50	0.62	0.1	2007	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Water Trucks	5			0.0	2007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Remediation Construction	12-20 CY Scrapers	8	313	0.66	0.1	2007	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	30-50-ton Excavator	8	180	0.58	0.1	2007	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Front End Loaders	8	165	0.465	0.1	2007	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Hollow Stem Drill Rig	8	218	0.75	0.1	2007	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Small Road Grader	8	174	0.575	0.1	2007	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Utilities/Roads	Smooth Drum Roller	8	114	0.43	0.1	2007	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Tractor/Loader/Backhoe	8	79	0.465	0.1	2007	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	200-ton Crane	2	190	0.43	0.1	2007	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Concrete Pump (Truck Mounted)	8	174	0.575	0.1	2007	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Misc Equipment (Generators, Compressors, Paving Equipment)	8	190	0.62	0.1	2007	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Pile Driving	Tractor/Loader/Backhoe	8	79	0.465	0.1	2007	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	150-ton Pile Driver	8	190	0.62	0.1	2007	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	200-ton Crane	8	190	0.43	0.1	2007	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	30-50-ton Excavator	8	180	0.58	0.1	2007	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Forklift	8	94	0.475	0.1	2007	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Construction and Tenant Improvement	Misc Equipment (Generators, Compressors, etc.)	8	190	0.62	0.1	2007	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	200-ton Crane	2	190	0.43	0.1	2007	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Concrete Pump (Truck Mounted)	8	174	0.575	0.1	2007	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Forklift	8	94	0.475	0.1	2007	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Front-end Loader	8	165	0.465	0.1	2007	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Site Preparation (11 acre site)	Misc Equipment (Generators, Compressors, etc.)	8	190	0.62	0.1	2007	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	200-ton Crane	2	190	0.43	0.1	2007	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Tractor/Loader/Backhoe	8	79	0.465	0.1	2007	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Bulldozer	8	352	0.59	0.5	2007	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	Grader	8	174	0.575	0.1	2007	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Grading (11 acre site)	Misc Equipment (Generators, Compressors, Paving Equipment)	8	190	0.62	0.1	2007	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Tractor/Loader/Backhoe	8	79	0.465	0.1	2007	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Water Truck	8	190	0.62	0.1	2007	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	24-CY Scraper	8	313	0.66	0.1	2007	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	8-CY Front-end Loader	8	165	0.465	0.1	2007	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Construction (11 acre site)	Bulldozer	8	352	0.59	0.5	2007	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	Graders	8	174	0.575	0.1	2007	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Soil Compactor	8	190	0.62	0.1	2007	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Water Truck	8	190	0.62	0.1	2007	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Concrete Pump (Truck Mounted)	8	174	0.575	0.1	2007	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Perimeter Vapor Probes	Front-end Loader	8	165	0.465	0.1	2007	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Forklift	8	94	0.475	0.1	2007	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Misc Equipment (Generators, Compressors, Paving Equipment)	8	190	0.62	0.1	2007	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Tractor/Loader/Backhoe	8	79	0.465	0.1	2007	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Water Truck	8	190	0.62	0.1	2007	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Off-site Truck Trips	Hollow Stem Drill Rig	8	218	0.75	0.1	2007	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Tractor/Loader/Backhoe	8	79	0.465	0.1	2007	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Offsite Delivery Trucks (Roundtrips)	20			0.0	2007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Offsite Haul Trucks (Roundtrips)	30			5.8	2007	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
	Offsite Trash Trucks (Roundtrips)	20			0.0	2007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Worker Trips	Worker Trips - Calculated Total	20			0.1	2007	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Fugitive Dust (acres per day) - Max				81.2	2007	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
	Fugitive Dust (acres per day) - Normal				21.3	2007	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3
Fugitive Dust	Fugitive Dust (acres per day) - Normal				81.2	2007	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
	Fugitive Dust (acres per day) - Normal				21.3	2007	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3



Phase	Equipment/Name	2009	2010	2011	2012	1	2	3	4	5	6	7	8	9
Site Preparation	6-8 CY Front-end Loaders													
	Bulldozer													
	End Dump Trucks													
	Tracked Loader													
Deep Dynamic Compaction	Water Truck													
	250-ton Crane													
	40-ton Off Highway Truck													
	Bulldozer													
Grading	Front-end Loaders													
	Water Trucks													
	Bulldozer													
	Front-end Loaders													
Remediation Construction	Graders													
	Scraper													
	Sheepsfoot Soil Compactor													
	Water Trucks													
	12-20 CY Scrapers													
	30-50-ton Excavator													
	Front End Loaders													
	Hollow Stem Drill Rig													
	Small Road Grader													
	Smooth Drum Roller													
	Tractor/Loader/Backhoe													
	Utilities/Roads	200-ton Crane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
200-ton Crane (Truck Mounted)		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Front End Loader		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Tractor/Loader/Backhoe		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Pile Driving	Misc Equipment (Generators, Compressors, Paving Equipment)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Tractor/Loader/Backhoe	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	150-ton Pile Driver													
	200-ton Crane													
Construction and Tenant Improvement	30-50-ton Excavator													
	Misc Equipment (Generators, Compressors etc.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Concrete Pump (Truck Mounted)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	Forklift	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Site Preparation (11 acre site)	Misc Equipment (Generators, Compressors etc.)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Slitter Crane (Truck Mounted)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Tractor/Loader/Backhoe	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Bulldozer													
Grading (11 acre site)	Grader													
	Misc Equipment (Generators, Compressors, Paving Equipment)													
	Tractor/Loader/Backhoe													
	Water Truck													
Construction (11 acre site)	24-CY Scraper													
	8-CY Front-end Loader													
	Bulldozer													
	Graders													
Perimeter Vapor Probes	Water Truck	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Flatbed Truck	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Forklift	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	Misc Equipment (Generators, Compressors, Paving Equipment)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Off-site Truck Trips	Tractor/Loader/Backhoe	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Water Truck													
	Hollow Stem Drill Rig													
	Tractor/Loader/Backhoe	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Worker Trips	Off-site Delivery Trucks (Roundtrips)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Off-site Haul Trucks (Roundtrips)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Off-site Trash Trucks (Roundtrips)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Worker Trips - Calculated Total	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Fugitive Dust	Fugitive Dust (acres per day) - Max													
	Fugitive Dust (acres per day) - Normal													
Paving Dust (yds per day) - Normal														





Phase	Equipment/Name	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9			
Site Preparation	6-8 CY Front-end Loaders																					
	Bulldozer																					
	End Dump Trucks																					
	Tracked Loader																					
	Water Truck																					
Deep Dynamic Compaction	250-ton Crane																					
	40-ton Off Highway Truck																					
	Bulldozer																					
	Front-end Loaders																					
	Water Trucks																					
Grading	Bulldozer	0.6																				
	Front-end Loaders	0.1																				
	Graders	0.1																				
	Scrapers	2.4																				
	Sheepsfoot Soil Compactor	0.1																				
Remediation Construction	Water Trucks	0.0																				
	12-20 CY Scrapers																					
	30-50-ton Excavator																					
	Front End Loaders																					
	Hollow Stem Drill Rig																					
	Small Road Grader																					
	Smooth Drum Roller																					
	Tractor/Loader/Backhoe																					
	200-ton Crane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	Concrete Pump (Truck Mounted)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	Front-end Loader	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
	Misc Equipment (Generators, Compressors, Paving Equipment)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
	Tractor/Loader/Backhoe	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	150-ton Pile Driver																					
	200-ton Crane																					
30-50-ton Excavator																						
Construction and Tenant Improvement	Misc Equipment (Generators, Compressors, etc.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	Concrete Pump (Truck Mounted)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
	Forklift	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	Front-end Loader	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	Misc Equipment (Generators, Compressors, etc.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	Slip Clutch (Truck Mounted)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
	Tractor/Loader/Backhoe	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	Bulldozer	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	Grader																					
	Misc Equipment (Generators, Compressors, Paving Equipment)																					
	Tractor/Loader/Backhoe																					
	Water Truck																					
	24-CY Scraper																					
	Grading (11 acre site)	6 CY Front-end Loader																				
		Bulldozer																				
Graders																						
Soil Compactor																						
Water Truck																						
Concrete Pump (Truck Mounted)		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Front-end Loader		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Forklift		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
Misc Equipment (Generators, Compressors, Paving Equipment)		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
Tractor/Loader/Backhoe		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
Water Truck		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Hollow Stem Drill Rig																						
Tractor/Loader/Backhoe																						
Off-site Truck Trips		Offsite Delivery Trucks (Roundtrips)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		Offsite Haul Trucks (Roundtrips)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Offsite Trash Trucks (Roundtrips)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	Worker Trips - Calculated Total	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.3	0.3	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0		
	Fugitive Dust (acres per day) - Max																					
Fugitive Dust	Fugitive Dust (acres per day) - Normal																					
	Fugitive Dust (103 per day) - Normal																					
		31.3																				
	1180.0																					



Phase	Equipment/Name	Hours	HP	Load	Trip Len Length	Year												
						2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	
Site Preparation	6.4 CY Front-end Loaders	8	165	0.465		2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
	Bulldozer	8	352	0.59		7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
	End Dump Trucks	8	255	0.41		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Tracked Loader	8	255	0.41		1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	Water Truck	8	190	0.43		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	250-ton Crane	8	417	0.49		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Deep Dynamic Compaction	40-ton Off Highway Truck	8	352	0.59														
	Bulldozer	8	165	0.465														
	Front-end Loaders	8	165	0.465														
	Water Trucks	8	352	0.59														
	Front-end Loaders	8	165	0.465														
	Grader	8	174	0.575														
Grading	Scrapers	8	313	0.66														
	Sheepfoot Soil Compactor	8	50	0.62														
	Water Trucks	8	313	0.66														
	12-20 CY Scrapers	8	180	0.58		13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	
	30-50-ton Excavator	8	180	0.58														
	Front End Loaders	8	165	0.465		3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	
Remediation Construction	Hollow Stem Drill Rig	8	218	0.75		1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	
	Small Road Grader	8	174	0.575		1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	
	Smooth Drum Roller	8	114	0.43		1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	
	Tractor/Loader/Backhoe	8	79	0.465		0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	
	200-ton Crane	8	190	0.62														
	Concrete Pump (Truck Mounted)	8	190	0.62														
Utilities/Roads	Tractor/Loader/Backhoe	8	79	0.465														
	Misc Equipment (Generators, Compressors, Paving Equipment)	8	190	0.62														
	150-ton Pile Driver	8	190	0.62														
	200-ton Crane	8	190	0.62														
	30-50-ton Excavator	8	180	0.58														
	Forklift	8	94	0.475														
Pile Driving	Misc Equipment (Generators, Compressors etc.)	8	190	0.62														
	200-ton Crane	2	190	0.62														
	Concrete Pump (Truck Mounted)	8	190	0.62														
	Forklift	8	165	0.465														
	Front End Loader	8	165	0.465														
	Misc Equipment (Generators, Compressors etc.)	8	190	0.62														
Construction and Tenant Improvement	Stripper Crane (Truck Mounted)	2	190	0.62														
	Tractor/Loader/Backhoe	8	79	0.465														
	Bulldozer	8	352	0.59														
	Grader	8	174	0.575														
	Misc Equipment (Generators, Compressors, Paving Equipment)	8	190	0.62														
	Tractor/Loader/Backhoe	8	79	0.465														
Site Preparation (11 acre site)	Water Truck	8	313	0.66														
	24-CY Scraper	8	165	0.465														
	8 CY Front-end Loader	8	352	0.59														
	Bulldozer	8	174	0.575														
	Graders	8	190	0.62														
	Soil Compactor	8	190	0.62														
Grading (11 acre site)	Concrete Pump (Truck Mounted)	4	180	0.62														
	Water Truck	8	190	0.62														
	Forklift	8	190	0.62														
	Misc Equipment (Generators, Compressors, Paving Equipment)	8	190	0.62														
	Tractor/Loader/Backhoe	8	79	0.465														
	Water Truck	8	190	0.62														
Construction (11 acre site)	Hollow Stem Drill Rig	8	218	0.75														
	Tractor/Loader/Backhoe	8	79	0.465														
	Off-site Truck Trips	20				0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
	Offsite Delivery Trucks (Roundtrips)	30				11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	
	Offsite Trash Trucks (Roundtrips)	20				0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	
	Worker Trips - Calculated Total	20				1.5	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	
Architectural Coatings	Architectural Coatings - Commercial Square Footage per month																	
	Architectural Coatings - Residential Square Footage per month																	
Asphalt	Asphalt (area per month)																	

Carbon Marketplace  
 Consideration Emissions  
 ROG (Mtpd/yr)

Approved RAP  
 Scenario 2 (Average)

Phase	Equipment Name	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	
Site Preparation	6x CY Front-end Loaders																	
	Bulldozer																	
	End Dump Trucks																	
	Tracked Loader																	
	Water Truck																	
	250-ton Crane	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7					
	40-ton Off Highway Truck	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6					
	Bulldozer	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5					
	Front-end Loaders	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8					
	Water Trucks	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
	Bulldozer	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4					
	Front-end Loaders	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6					
	Shovel	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4					
	Scrapers	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9					
	Shovel	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6					
Water Trucks	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
Remediation Construction	12-20 CY Scrapers	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8					
	30-50-ton Excavator	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5					
	Front End Loaders	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3					
	Hollow Stem Drill Rig	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5					
	Small Road Grader	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7					
	Smooth Drum Roller	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6					
	Tractor/Loader/Backhoe	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6					
	200-ton Crane																	
	Concrete Pump (Truck Mounted)																	
	Misc Equipment (Generators, Compressors, Paving Equipment)																	
	Tractor/Loader/Backhoe	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0					
	Tractor/Loader/Backhoe	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6					
	150-ton Pile Driver	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9					
	200-ton Crane	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4					
	30-50-ton Excavator	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5					
	Forklift	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7					
	Misc Equipment (Generators, Compressors, etc.)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0					
	Construction and Tenant Improvements	200-ton Crane																
		Concrete Pump (Truck Mounted)																
		Forklift																
Front-end Loader																		
Misc Equipment (Generators, Compressors, etc.)																		
Stone Crib (Truck Mounted)																		
Tractor/Loader/Backhoe																		
Bulldozer																		
Grader		1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7					
Misc Equipment (Generators, Compressors, Paving Equipment)		2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0					
Tractor/Loader/Backhoe		0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6					
Water Truck																		
24-CY Scraper		3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5					
8-CY Front-end Loader		1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3					
Bulldozer	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5						
Graders	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7						
Soil Compactor	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0						
Site Preparation (11 acre site)	Water Truck																	
	Concrete Pump (Truck Mounted)																	
	Front-end Loader																	
	Excavator																	
	Tractor/Loader/Backhoe																	
	Water Truck																	
	Misc Equipment (Generators, Compressors, Paving Equipment)																	
	Tractor/Loader/Backhoe																	
	Water Truck																	
	24-CY Scraper	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5					
	Bulldozer	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5					
	Graders	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7					
	Soil Compactor	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0					
	Construction (11 acre site)	Water Truck																
Concrete Pump (Truck Mounted)																		
Front-end Loader																		
Excavator																		
Tractor/Loader/Backhoe																		
Water Truck																		
Misc Equipment (Generators, Compressors, Paving Equipment)																		
Tractor/Loader/Backhoe																		
Water Truck																		
Hollow Stem Drill Rig		2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7					
Tractor/Loader/Backhoe		0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6					
Tractor/Loader/Backhoe		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2					
Off-site Delivery Trucks (Roundtrips)		11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0					
Off-site Haul Trucks (Roundtrips)		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0					
Off-site Trash Trucks (Roundtrips)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5						
Worker Trips - Calculated Total																		
Architectural Coatings - Commercial Square Footage per month	982.2	982.2	982.2	982.2	982.2	982.2	982.2	982.2	982.2	982.2	982.2	982.2						
Architectural Coatings - Residential Square Footage per month	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2						
Asphalt (acres per month)	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2						

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
<b>Phase</b>											
<b>Site Preparation</b>											
Equipment/Name											
8-CY Front-end Loaders											
Bulldozer											
End Dump Trucks											
Tracked Loader											
Water Truck											
<b>Deep Dynamic Compaction</b>											
250-ton Crane											
40-ton Off Highway Truck											
Bulldozer											
Front-end Loaders											
Water Trucks											
Bulldozer											
Front-end Loaders											
Graders											
Scrapers											
Subsoil Compactor											
Water Trucks											
<b>Remediation Construction</b>											
12-30 CY Scrapers											
30-50-ton Excavator											
Front End Loaders											
Hollow Stem Drill Rig											
Small Road Grader											
Smooth Drum Roller											
Tractor/Loader/Backhoe											
200-ton Crane											
Concrete Pump (Truck Mounted)											
Front-end Loader											
Tractor/Loader/Backhoe											
Misc Equipment (Generators, Compressors, Paving Equipment)											
20-ton Pile Driver											
150-ton Pile Driver											
200-ton Crane											
30-50-ton Excavator											
Forklift											
Misc Equipment (Generators, Compressors, etc.)											
<b>Construction and Tenant Improvement</b>											
200-ton Crane											
Concrete Pump (Truck Mounted)											
Forklift											
Front-end Loader											
Misc Equipment (Generators, Compressors, etc.)											
Slinger Crane (Truck Mounted)											
Tractor/Loader/Backhoe											
Bulldozer											
Grader											
Misc Equipment (Generators, Compressors, Paving Equipment)											
Tractor/Loader/Backhoe											
Water Truck											
<b>Grading (11 acre site)</b>											
24-CY Scraper											
8-CY Front-end Loader											
Bulldozer											
Graders											
Soil Compactor											
Water Truck											
Concrete Pump (Truck Mounted)											
Flatbed Truck											
Forklift											
Misc Equipment (Generators, Compressors, Paving Equipment)											
Tractor/Loader/Backhoe											
Water Truck											
<b>Construction (11 acre site)</b>											
Concrete Pump (Truck Mounted)											
Flatbed Truck											
Forklift											
Misc Equipment (Generators, Compressors, Paving Equipment)											
Tractor/Loader/Backhoe											
Water Truck											
<b>Perimeter Vapor Probes</b>											
Hollow Stem Drill Rig											
Tractor/Loader/Backhoe											
Off-site Delivery Trucks (Roundtrips)											
Off-site Haul Trucks (Roundtrips)											
Off-site Fresh Trucks (Roundtrips)											
Off-site Fresh Trucks (Roundtrips)											
Worker Trns - Calculated Total											
Architectural Coatings - Commercial Square Footage per month											
Architectural Coatings - Residential Square Footage per month											
Asphalt (acres per month)											

Phase	Equipment Name	Hours	HP	Load	Year													
					2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017		
Site Preparation	6-8 CY Front-end Loaders	8	165	0.465	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
	Bulldozer	8	352	0.59	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
	End Dump Trucks				0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Tracked Loader	8	255	0.41	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	Water Truck				0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Deep Dynamic Compaction	250-ton Crane	8	190	0.43														
	40-ton Off Highway Truck	8	417	0.49														
	Bulldozer	8	352	0.59														
	Front-end Loaders	8	165	0.465														
	Wheel Loads																	
Grading	Bulldozer	8	352	0.59														
	Front-end Loaders	8	165	0.465														
	Grader	8	174	0.575														
	Scrapers	8	313	0.66														
	Sheepsfoot Soil Compactor	8	50	0.62														
Remediation Construction	Water Trucks																	
	12-20 CY Scrapers	8	313	0.66	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6
	30-50-ton Excavator	8	180	0.58	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
	Front End Loaders	8	165	0.465	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	HiLow Stem Drill Rig	8	218	0.75	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
	Small Road Grader	8	174	0.575	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
	Front-end Loader	8	79	0.465	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Utilities/Roads	200-ton Crane	2	190	0.43														
	Concrete Pump (Truck Mounted)	8	190	0.62														
	Finish Grader	8	174	0.575														
	Misc. Equipment (Generators, Compressors, Paving Equipment)	8	190	0.62														
	Tractor/Loader/Backhoe	8	79	0.465														
	150-ton Pile Driver	8	190	0.43														
	200-ton Crane	8	190	0.43														
	30-50-ton Excavator	8	180	0.58														
	Forklift	8	94	0.475														
	Misc. Equipment (Generators, Compressors, etc.)	2	190	0.62														
Construction and Tenant Improvement	200-ton Crane	2	190	0.43														
	Concrete Pump (Truck Mounted)	8	190	0.62														
	Front-end Loader	8	94	0.475														
	Front-end Loader	8	165	0.465														
	Misc. Equipment (Generators, Compressors, etc.)	8	190	0.62														
	Stinger Crane (Truck Mounted)	2	190	0.62														
	Tractor/Loader/Backhoe	8	79	0.465														
	Bulldozer	8	352	0.59														
	Grader	8	174	0.575														
	Site Preparation (11 acre site)	Misc. Equipment (Generators, Compressors, Paving Equipment)	8	190	0.62													
Tractor/Loader/Backhoe		8	79	0.465														
Water Truck																		
24-CY Scraper		8	313	0.66														
B-CY Front-end Loader		8	165	0.465														
Grading (11 acre site)	Bulldozer	8	352	0.59														
	Front-end Loader	8	79	0.465														
	Soil Compactor	8	190	0.62														
	Water Truck																	
	Concrete Pump (Truck Mounted)	4	190	0.62														
Construction (11 acre site)	Forklift	8	190	0.62														
	Misc. Equipment (Generators, Compressors, Paving Equipment)	8	190	0.62														
	Tractor/Loader/Backhoe	8	79	0.465														
	Water Truck																	
	HiLow Stem Drill Rig	8	218	0.75														
Perimeter Vapor Probes	Tractor/Loader/Backhoe	8	79	0.465														
	Off-site Truck Trips				0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Offsite Delivery Trucks (Roundtrips)	20																
	Offsite Haul Trucks (Roundtrips)	30																
	Offsite Trash Trucks (Roundtrips)	20																
Worker Trips	Worker Trips - Calculated Total				1.5	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
	Architectural Coatings - Commercial/Institutional				0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
	Architectural Coatings - Residential				0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
	Asphalt ( Acres per month)				0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
	Asphalt ( Acres per month)				0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8



Phase	Equipment/Name	2009					2010											
		5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9
Site Preparation	6-3 CY Front-end Loaders																	
	Bulldozer																	
	End Dump Trucks																	
	Tracked Loader																	
	Water Truck																	
Deep Dynamic Compaction	250-ton Crane																	
	40-ton Off Highway Truck																	
	Bulldozer																	
	Front-end Loaders																	
	Water Trucks																	
Grading	Bulldozer																	
	Front-end Loaders																	
	Scrapers																	
	Shovel/Soil Compactor																	
	Water Trucks																	
Remediation Construction	12-20 CY Scrapers																	
	30-50-ton Excavator																	
	Front End Loaders																	
	Hollow Stem Drill Rig																	
	Small Road Grader																	
Utilities/Roads	Smooth Drum Roller																	
	Tractor/Loader/Backhoe	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
	200-ton Crane	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
	Concrete Pump (Truck Mounted)	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
	Misc Equipment (Generators, Compressors, Paving Equipment)	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Pile Driving	150-ton Pile Driver																	
	200-ton Crane																	
	30-50-ton Excavator																	
	Forklift																	
	Misc Equipment (Generators, Compressors etc.)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Construction and Tenant Improvement	200-ton Crane	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
	Concrete Pump (Truck Mounted)	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
	Forklift	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	Front-end Loader	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
	Misc Equipment (Generators, Compressors etc.)	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Site Preparation (11 acre site)	Tractor/Loader/Backhoe	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
	Bulldozer																	
	Grader																	
	Misc Equipment (Generators, Compressors, Paving Equipment)																	
	Tractor/Loader/Backhoe																	
Grading (11 acre site)	Water Truck																	
	24-CY Scraper																	
	6-CY Front-end Loader																	
	Bulldozer																	
	Graders																	
Construction (11 acre site)	Soil Compactor																	
	Water Truck																	
	Concrete Pump (Truck Mounted)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	Grader Truck	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Front-end Loader	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Perimeter Vapor Probes	Misc Equipment (Generators, Compressors, Paving Equipment)	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
	Tractor/Loader/Backhoe	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	Water Truck	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Hollow Stem Drill Rig																	
	Tractor/Loader/Backhoe																	
Off-site Truck Trips	Offsite Delivery Trucks (Roundtrips)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Offsite Haul Trucks (Roundtrips)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Offsite Trash Trucks (Roundtrips)	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	Worker Trips - Calculated Total	11.7	11.7	12.3	12.3	6.4	6.4	5.0	4.4	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
	Worker Trips	352.2	352.2	408.7	408.7	408.7	408.7	408.7	408.7	408.7	408.7	408.7	408.7	408.7	408.7	408.7	408.7	408.7
Architectural Coatings	Architectural Coatings - Commercial Square Footage per month	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7
	Architectural Coatings - Residential Square Footage per month	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2

Phase	Equipment/Name	Hours	HP	Load	Trip Length	Year													
						2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Site Preparation	6-8 CY Front-end Loaders	8	165	0.465		23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
	Bulldozer	8	352	0.59	5	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2
	Highway End Dump Trucks	8	235	0.41	5	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	Tracked Loader	8	190	0.43	5	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1
	Water Trucks	8	165	0.465		0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
	24-CY Front-end Loader	8	190	0.465		0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Deep Dynamic Compaction	40-50-ton Highway Truck	8	417	0.49															
	6-CY Front-end Loaders	8	165	0.465															
	Bulldozer	8	352	0.59	5														
	Water Trucks	8	165	0.465															
	Bulldozer	8	352	0.59															
	Front-end Loaders	8	165	0.465															
Grading	Grader	8	174	0.575															
	Scraper	8	313	0.66															
	Sheepfoot Soil Compactor	8	50	0.62	5														
	Water Trucks	8	165	0.465															
	15-20 CY Scrapers	8	313	0.66															
	30-50-ton Excavator	8	180	0.58															
Remediation Construction	6-8 CY Front-end Loaders	8	165	0.465															
	6-8 CY Front-end Loaders	8	165	0.465															
	Roll-over Stem Drill Rig	8	218	0.75															
	Small Road Grader	8	79	0.465															
	Water Trucks	8	165	0.465															
	Water Trucks	8	165	0.465															
Utilities/Roads	300-ton Crane	8	190	0.43															
	Concrete Pump (Truck Mounted)	8	190	0.62															
	Finish Grader	8	174	0.575															
	Misc Equipment (Generators, Compressors, Paving Equipment)	8	190	0.62															
	Tractor/Loader/Backhoe	8	79	0.465															
	150-ton Pile Driver	8	190	0.62															
Pile Driving	200-ton Crane	8	190	0.43															
	30-50-ton Excavator	8	180	0.58															
	Pile Driver	8	84	0.475															
	Misc Equipment (Generators, Compressors, etc.)	8	190	0.62															
	200-ton Crane	8	190	0.43															
	Concrete Pump (Truck Mounted)	8	84	0.75															
Construction and Tenant Improvements	Front-end Loader	8	165	0.465															
	Misc Equipment (Generators, Compressors, etc.)	8	190	0.62															
	Slinger Crane (Truck Mounted)	8	190	0.62															
	Tractor/Loader/Backhoe	8	79	0.465															
	Water Truck	8	165	0.465															
	Bulldozer	8	352	0.59															
Site Preparation (11 acre site)	Grader	8	174	0.575															
	Misc Equipment (Generators, Compressors, Paving Equipment)	8	190	0.62															
	Tractor/Loader/Backhoe	8	79	0.465															
	Water Truck	8	165	0.465															
	24-CY Scraper	8	313	0.66															
	8-CY Front-end Loader	8	165	0.465															
Grading (11 acre site)	Bulldozer	8	352	0.59															
	Graders	8	174	0.575															
	Soil Compactor	8	190	0.62															
	Misc Equipment (Generators, Compressors, Paving Equipment)	8	190	0.62															
	Flatbed Truck	4	190	0.62	5														
	Front-end Loader	8	165	0.465															
Construction (11 acre site)	Misc Equipment (Generators, Compressors, Paving Equipment)	8	190	0.62	20														
	Tractor/Loader/Backhoe	8	79	0.465															
	Water Truck	8	165	0.465															
	Hollow Stem Drill Rig	8	218	0.75															
	Tractor/Loader/Backhoe	8	79	0.465															
	Off-site Delivery Trucks (Roundtrips)				20	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Perimeter Vapor Probes	Off-site Haul Trucks (Roundtrips)				30														
	Off-site Trash Trucks (Roundtrips)				20														
	Worker Trips - Calculated Total				20	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
					20														
					20														
					20														
Off-site Truck Trips					20	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
					20														
					20														
					20														
					20														
					20														
Worker Trips					20	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
					20														
					20														
					20														
					20														
					20														

Phase	2008																
Equipment/Name	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	
6-8 CY Front-end Loaders																	
Highway End Dump Trucks																	
Tracked Loader																	
Water Trucks																	
250-ton Crane	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
30-ton Off Highway Truck	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
8-CY Front-end Loaders	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
Bulldozer	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Graders	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Water Trucks	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
Front-end Loaders	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
Graders	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Scrapers	309.7	309.7	309.7	309.7	309.7	309.7	309.7	309.7	309.7	309.7	309.7	309.7	309.7	309.7	309.7	309.7	309.7
Water Trucks	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
Water Trucks	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
15-20 CY Scrapers	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
30-50-ton Excavator	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3
8-8 CY Front End Loaders	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
Hollow Stem Drill Rig	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0
Small Road Grader	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Tractor/loader/Backhoe	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
Water Trucks	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
200-ton Crane																	
Concrete Pump (Truck Mounted)																	
Misc Equipment (Generators, Compressors, Paving Equipment)																	
Tractor/loader/Backhoe																	
150-ton Pile Driver	46.1	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8
200-ton Crane	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
30-50-ton Excavator	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3
Forklift	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
Misc Equipment (Generators, Compressors, etc.)	15.4	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9
Concrete Pump (Truck Mounted)																	
Forklift																	
Front-end Loader																	
Misc Equipment (Generators, Compressors, etc.)																	
Shovel Crane (Truck Mounted)																	
Tractor/loader/Backhoe																	
Water Truck																	
Bulldozer	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1
Grader	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Misc Equipment (Generators, Compressors, Paving Equipment)																	
Tractor/loader/Backhoe	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Water Truck	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
24 CY Scraper																	
8-CY Front-end Loader																	
Bulldozer	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1
Graders	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Soil Compactor																	
Water Truck																	
Concrete Pump (Truck Mounted)																	
Flashed Truck																	
Forklift																	
Misc Equipment (Generators, Compressors, Paving Equipment)																	
Tractor/loader/Backhoe																	
Water Truck																	
Hollow Stem Drill Rig																	
Tractor/loader/Backhoe																	
Perimeter Vapor Probes																	
Off-site Truck Trips	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Off-site Truck Trips	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Off-site Truck Trips	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
Worker Trips - Calculated Total	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4
Worker Trips - Total	129.3	129.3	129.3	129.3	129.3	129.3	129.3	129.3	129.3	129.3	129.3	129.3	129.3	129.3	129.3	129.3	129.3



Phase	Equipment/Items	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Site Preparation	6-8 CY Front-end Loaders																	
	Bulldozer																	
	Highway End Dump Trucks																	
	Tracked Loader																	
Deep Dynamic Compaction	Water Trucks																	
	250-ton Crane																	
	40-ton Off Highway Truck																	
	8-CY Front-end Loaders																	
Grading	Bulldozer																	
	Water Trucks																	
	Bulldozer																	
	Grading																	
Remediation Construction	Sheepsfoot Soil Compactor																	
	Water Trucks																	
	15-20 CY Scrapers																	
	30-50-ton Excavator																	
Utilities/Roads	6-8 CY Front End Loaders																	
	Hollow Stem Drill Rig																	
	Small Road Grader																	
	Tractor/Loader/Backhoe																	
Pile Driving	Water Trucks																	
	200-ton Crane																	
	Concrete Pump (Truck Mounted)																	
	Misc Equipment (Generators, Compressors, Paving Equipment)																	
Construction and Tenant Improvements	Tractor/Loader/Backhoe																	
	150-ton Pile Driver																	
	200-ton Crane																	
	30-50-ton Excavator																	
Site Preparation (11 acre site)	Misc Equipment (Generators, Compressors, etc.)																	
	Concrete Pump (Truck Mounted)																	
	Forklift																	
	Misc Equipment (Generators, Compressors, etc.)																	
Grading (11 acre site)	Front-end Loader																	
	Misc Equipment (Generators, Compressors, etc.)																	
	Single Crane (Truck Mounted)																	
	Tractor/Loader/Backhoe																	
Construction (11 acre site)	Water Truck																	
	Bulldozer																	
	Misc Equipment (Generators, Compressors, Paving Equipment)																	
	Tractor/Loader/Backhoe																	
Perimeter Vapor Probes	Water Truck																	
	Concrete Pump (Truck Mounted)																	
	Flashed Truck																	
	Forklift																	
Off-site Truck Trips	Misc Equipment (Generators, Compressors, Paving Equipment)																	
	Water Truck																	
	Hollow Stem Drill Rig																	
	Tractor/Loader/Backhoe																	
Worker Trips	Offsite Delivery Trucks (Roundtrips)																	
	Offsite Haul Trucks (Roundtrips)																	
	Offsite Trash Trucks (Roundtrips)																	
	Worker Trips - Calculated Total																	

Phase	Equipment/Name	Hours	HP	Load	Year													
					Trip Length	1	2	3	4	5	6	7	8	9	10	11	12	
Site Preparation	6-8 CY Front-end Loaders	8	165	0.465	219	219	219	219	219	219	219	219	219	219	219	219	219	219
	Bulldozer	8	352	0.59														
	Highway End Dump Trucks				0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	Tracked Loader	8	255	0.41														
	Water Trucks				0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
	250-ton Crane	8	190	0.43														
Deep Dynamic Compaction	40-ton Off Highway Truck	8	417	0.49														
	8-CY Front-end Loaders	8	165	0.465														
	Bulldozer	8	352	0.59														
	Water Trucks																	
	Bulldozer	8	352	0.59														
Grading	Front-end Loaders	8	165	0.465														
	Graders	8	174	0.575														
	Scrapers	8	313	0.66														
	Shredder Soil Compactor	8	50	0.62														
	Water Trucks																	
	15-20 CY Scrapers	8	313	0.66														
	30-50-ton Excavator	8	180	0.58														
	6-8 CY Front-end Loaders	8	165	0.465														
Remediation Construction	Walk-behind Stem Drill Rig	8	218	0.75														
	Small Road Grader	8	174	0.575														
	Tractor/Loader/Backhoe	8	79	0.465														
	Water Trucks																	
	200-ton Crane	8	180	0.43														
	Concrete Pump (Truck Mounted)	8	190	0.62														
	Misc Grader	8	174	0.575														
	Misc Equipment (Generators, Compressors, Paving Equipment)	8	190	0.62														
	Tractor/Loader/Backhoe	8	79	0.465														
	150-ton Pile Driver	8	180	0.62														
	30-50-ton Excavator	8	180	0.58														
	Forklift	8	94	0.475														
	Construction and Tenant Improvements	Misc Equipment (Generators, Compressors etc.)	8	190	0.62													
Concrete Pump (Truck Mounted)		2	190	0.43														
Front-end Loader		8	94	0.475														
Misc Equipment (Generators, Compressors, etc.)		8	165	0.465														
Single Crane (Truck Mounted)		2	190	0.62														
Tractor/Loader/Backhoe		8	79	0.465														
Water Truck																		
Bulldozer		8	352	0.59														
Grader		8	174	0.575														
Misc Equipment (Generators, Compressors, Paving Equipment)		8	190	0.62														
Tractor/Loader/Backhoe		8	79	0.465														
Water Truck																		
24-CY Scraper		8	313	0.66														
8-CY Front-end Loader		8	165	0.465														
Bulldozer		8	352	0.59														
Graders		8	174	0.575														
Soil Compactor		8	190	0.62														
Water Truck																		
Construction (11 acre site)	Concrete Pump (Truck Mounted)	4	190	0.62														
	Flatbed Truck																	
	Forklift	8	190	0.62														
	Misc Equipment (Generators, Compressors, Paving Equipment)	8	190	0.62														
	Water Truck																	
	Tractor/Loader/Backhoe	8	79	0.465														
	Water Truck																	
	Water Truck																	
	Water Truck																	
	Water Truck																	
Perimeter Vapor Probes	Tractor/Loader/Backhoe	8	218	0.75														
	Tractor/Loader/Backhoe	8	79	0.465														
	Water Truck																	
Off-site Truck Trips	Offsite Delivery Trucks (Roundtrips)				0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	
	Offsite Haul Trucks (Roundtrips)				1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	
	Offsite Haul Trucks (Roundtrips)				2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
Worker Trips	Worker Trips - Calculated Total				7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	
					12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	
					12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	

Phase	Equipment Name	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4
Site Preparation	8-CY Front-end Loaders																
	Bulldozer																
	Highway End Dump Trucks																
Deep Dynamic Compaction	Water Trucks																
	25-ton Crane	21.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3
	40-ton Off Highway Truck	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2
	8-CY Front-end Loaders	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9
Grading	Bulldozer	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7
	Water Trucks	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	Bulldozer	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4
	Front-end Loaders	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9
Remediation Construction	Grader	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5
	Scrapers	294.2	294.2	294.2	294.2	294.2	294.2	294.2	294.2	294.2	294.2	294.2	294.2	294.2	294.2	294.2	294.2
	Sheepsfoot Soil Compactor	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
	Water Trucks	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	15-20 CY Scrapers	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8
	30-50-ton Excavator	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7
	8-CY Front End Loaders	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9
	Front-End Loader	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8
	Small Road Grader	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
	Tractor/Loader/Backhoe	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Utilities/Roads	Water Trucks	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	200-ton Crane																
	Concrete Pump (Truck Mounted)																
	Finish Grader	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
	Misc Equipment (Generators, Compressors, Paving Equipment)	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1
	Tractor/Loader/Backhoe	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
	150-ton Pile Driver	43.8	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4
	200-ton Crane	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6
	30-50-ton Excavator	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7
	Forklift	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
	Misc Equipment (Generators, Compressors, etc.)	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1
	Construction and Tenant Improvements	Concrete Pump (Truck Mounted)															
Forklift		6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
Front-end Loader		30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3
Misc Equipment (Generators, Compressors, etc.)		15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1
Slinger Crane (Truck Mounted)		3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
Tractor/Loader/Backhoe		4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
Water Truck		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Bulldozer		26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7
Grader		14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
Misc Equipment (Generators, Compressors, Paving Equipment)		15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1
Grading (11 acre site)	Tractor/Loader/Backhoe	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
	Water Truck	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	24 CY Scraper	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4
Construction (11 acre site)	8-CY Front-end Loader	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9
	Bulldozer	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7
	Scrapers	294.2	294.2	294.2	294.2	294.2	294.2	294.2	294.2	294.2	294.2	294.2	294.2	294.2	294.2	294.2	294.2
	Water Truck	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Off-site Truck Trips	Concrete Pump (Truck Mounted)																
	Flattop Truck	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
	Forklift	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3
	Misc Equipment (Generators, Compressors, Paving Equipment)	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1
	Tractor/Loader/Backhoe	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
	Water Truck	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	Hollow Stem Drill Rig	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3
	Tractor/Loader/Backhoe	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
	Off-site Delivery Trucks (Roundtrips)	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	Off-site Fuel Trucks (Roundtrips)	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Worker Trips	Off-site Fuel Trucks (Roundtrips)																
	Worker Trips - Calculated Total	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3

RAP Refinements - Scenario 1 (Peak)  
 Carson Marketplace  
 Construction Emissions  
 CO (Mitigated)

Phase	Equipment/Name	2009					2010											
		5	6	7	8	9	10	11	12	1	2	3	4					
Site Preparation	5-8 CY Front-end Loaders																	
	Bulldozer																	
	Highway End Dump Trucks																	
	Tracked Loader																	
	Water Trucks																	
Deep Dynamic Compaction	250-ton Crane																	
	40-ton Off Highway Truck																	
	6-8 CY Front-end Loaders																	
	Water Trucks																	
	Water Trucks																	
Grading	Front-end Loaders																	
	Bulldozer																	
	Grader																	
	Scrapers																	
	Sheepsfoot Soil Compactor																	
Remediation Construction	Water Trucks																	
	15-20 CY Scrapers																	
	30-50-ton Excavator																	
	6-8 CY Front End Loaders																	
	Hollow Stem Drill Rig																	
Utilities/Roads	Small Road Grader																	
	Tractor/Loader/Backhoe																	
	Water Trucks																	
	Concrete Pump (Truck Mounted)																	
	Fresh Grader																	
Pile Driving	Misc. Equipment (Generators, Compressors, Paving Equipment)																	
	Tractor/Loader/Backhoe																	
	150-ton Pile Driver																	
	200-ton Crane																	
	30-50-ton Excavator																	
Construction and Tenant Improvements	Misc. Equipment (Generators, Compressors etc.)	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
	200-ton Crane	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4
	Concrete Pump (Truck Mounted)	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
	Forklift	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9
	Front-end Loader	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Site Preparation (11 acre site)	Misc. Equipment (Generators, Compressors etc.)	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
	Tractor/Loader/Backhoe	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
	Water Truck	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
	Bulldozer																	
	Grader																	
Grading (11 acre site)	Misc. Equipment (Generators, Compressors, Paving Equipment)																	
	Tractor/Loader/Backhoe																	
	Water Truck																	
	24-CY Scraper																	
	8-CY Front-end Loader																	
Construction (11 acre site)	Bulldozer																	
	Graders																	
	Soil Compactor																	
	Water Truck																	
	Concrete Pump (Truck Mounted)	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
Perimeter Vapor Probes	Excavator	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
	Excavator Truck	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4
	Misc. Equipment (Generators, Compressors, Paving Equipment)	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7
	Tractor/Loader/Backhoe	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
	Water Truck	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Off-site Truck Trips	Hollow Stem Drill Rig																	
	Tractor/Loader/Backhoe																	
	Offsite Delivery Trucks (Roundtrips)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
	Offsite Haul Trucks (Roundtrips)	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	Offsite Trash Trucks (Roundtrips)	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Worker Trips	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	
Worker Trips - Calculated Total																		

Carson Marketplace  
Construction Emissions  
NOx (Unmitigated)

RAP Refinements - Scenario 1 (Peak)

Phase	Equipment/Name	Hours	HP	Load	Year	2008												2007		
						1	2	3	4	5	6	7	8	9	10	11	12			
Site Preparation	6-8 CY Front-end Loaders	8	165	0.465		16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.1	16.1	16.1	16.1	16.1
	Bulldozer	8	352	0.59		58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	55.9	55.9	55.9	55.9	55.9
	Highway End Dump Trucks	8	255	0.41		1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.4	1.4	1.4	1.4	1.4	1.4
	Tracked Loader	8	352	0.59		0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Deep Dynamic Compaction	25-ton Trucks	8	190	0.43		14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.1	14.1	14.1	14.1	14.1	14.1
	40-ton Off Highway Truck	8	437	0.49		0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	8-CY Front-end Loaders	8	165	0.465																
	Bulldozer	8	352	0.59																
Grading	Bulldozer	8	352	0.59																
	Front-end loaders	8	165	0.465																
	Grader	8	174	0.575																
Remediation Construction	Sheepsfoot Soil Compactor	6	313	0.66																
	Water Trucks	6	50	0.62																
	15-20 CY Scrapers	8	313	0.66																45.6
	30-50-ton Excavator	8	190	0.58																8.0
	8-CY Front End Loaders	8	165	0.465																8.0
	Hollow Stem Drill Rig	8	418	0.75																33.5
	Small Road Grader	8	94	0.75																0.8
	Tractor/Loader/Backhoe	8	79	0.465																4.8
	Water Trucks	8	79	0.465																0.5
	200-ton Crane	8	190	0.43																
Construction and Tenant Improvements	Concrete Pump (Truck Mounted)	8	190	0.62																
	Finish Grader	8	174	0.575																
	Misc Equipment (Generators/Compressors/Paving Equipment)	8	190	0.62																
	Tractor/Loader/Backhoe	6	79	0.465																
	150-ton Crane	8	190	0.62																
	200-ton Crane	8	190	0.43																
	90-50-ton Excavator	8	190	0.58																
	Forklift	8	94	0.475																
	Misc Equipment (Generators/Compressors, etc.)	8	190	0.62																
	200-ton Crane	2	190	0.43																
	Concrete Pump (Truck Mounted)	8	190	0.62																
	Front-end loader	8	165	0.465																
	Misc Equipment (Generators/Compressors etc.)	8	190	0.62																
	Slings Crane (Truck Mounted)	2	190	0.62																
	Tractor/Loader/Backhoe	8	79	0.465																
Water Truck	8	79	0.465																	
Site Preparation (11 acre site)	Bulldozer	8	352	0.59																
	Grader	8	174	0.575																
	Misc Equipment (Generators/Compressors/Paving Equipment)	8	190	0.62																
	Tractor/Loader/Backhoe	6	79	0.465																
	Water Truck	8	79	0.465																
	24-CY Scraper	8	313	0.66																
Grading (11 acre site)	8-CY Front-end Loader	8	165	0.465																
	Bulldozer	8	352	0.59																
	Graders	8	174	0.575																
	Misc Compactor	8	190	0.62																
	Concrete Pump (Truck Mounted)	4	190	0.62																
	Flashed Truck	8	190	0.62																
Construction (11 acre site)	Forklift	8	190	0.62																
	Misc Equipment (Generators/Compressors/Paving Equipment)	8	190	0.62																
	Tractor/Loader/Backhoe	8	79	0.465																
	Water Truck	8	79	0.465																
	Hollow Stem Drill Rig	6	218	0.75																
	Tractor/Loader/Backhoe	6	79	0.465																
	Offsite Haul Trucks (Roundtrips)	20																		
	Offsite Trash Trucks (Roundtrips)	30																		
Offsite Trash Trucks (Roundtrips)	20																			
Worker Trips					0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Worker Trips - Calculated Total					17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4

Phase	Equipment/Name	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	
Site Preparation	6-8 CY Front-end Loaders																	
	Bulldozer																	
	Highway End Dump Trucks																	
Deep Dynamic Compaction	Tracked Loader																	
	Water Trucks																	
	30-ton Crane	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4
Grading	30-ton Crane	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2
	6-CY Front-end Loaders	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1
	Bulldozer	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9
Remediation Construction	Water Trucks	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	Bulldozer	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
	Front-end Loaders	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2
Utilities/Roads	Scrapers	224.8	224.8	224.8	224.8	224.8	224.8	224.8	224.8	224.8	224.8	224.8	224.8	224.8	224.8	224.8	224.8	224.8
	Sheepfoot Soil Compactor	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
	Water Trucks	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Pile Driving	15-20 CY Scrapers	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
	30-50-ton Excavator	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4
	6-8 CY Front-end Loaders	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
Construction and Tenant Improvements	Roller Stem Drill Rig	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5
	Final Road Grader	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	Water Trucks	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Site Preparation (11 acre site)	300-ton Crane	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
	Concrete Pump (Truck Mounted)	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1
	Finish Grader	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
Grading (11 acre site)	Misc Equipment (Generators/Compressors/Paving Equipment)	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1
	Tractor/Loader/Backhoe	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
	Water Truck	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Construction (11 acre site)	24-CY Scraper	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
	Bulldozer	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
	Graders	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
Perimeter Vapor Probes	Wall Compactor	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1
	Misc Equipment (Truck Mounted)	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
	Flatbed Truck	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2
Off-site Truck Trips	Misc Equipment (Generators/Compressors/Paving Equipment)	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1
	Tractor/Loader/Backhoe	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
	Water Truck	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Worker Trips	Hollow Stem Drill Rig	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7
	Tractor/Loader/Backhoe	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
	Off-site Delivery Trucks (Roundtrips)	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Total	Off-site Trash Trucks (Roundtrips)	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	Worker Trips - Calculated Total	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
	Worker Trips - Calculated Total	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4

Phase	Equipment/Name	5	6	7	8	9	10	11	12	1	2	3	4
Site Preparation	6-8 CY Front-end Loaders												
	Bulldozer												
	Highway End Dump Trucks												
	Tracked Loader												
Deep Dynamic Compaction	350-ton Crane												
	40-ton Off Highway Truck												
	6-CY Front-end Loaders												
	Bulldozer												
Grading	Water Trucks												
	Bulldozer												
	Front-end Loaders												
	Grader												
Remediation Construction	Scrapers												
	Sheepfoot Soil Compactor												
	Water Trucks												
	15-20 CY Scrapers												
Utilities/Roads	30-50-ton Excavator												
	6-8 CY Front End Loaders												
	Small Backhoe Loader												
	Tractor/Loader/Backhoe												
Pile Driving	Water Trucks												
	200-ton Crane												
	Concrete Pump (Truck Mounted)												
	Finish Grader												
Construction and Tenant Improvements	Misc Equipment (Generators, Compressors, Paving Equipment)												
	Tractor/Loader/Backhoe												
	150-ton Pile Driver												
	200-ton Crane												
Site Preparation (11 acre site)	30-50-ton Excavator												
	Misc Equipment (Generators, Compressors etc.)												
	200-ton Crane												
	Concrete Pump (Truck Mounted)												
Grading (11 acre site)	Water Truck												
	24-CY Scraper												
	Bulldozer												
	6-CY Front-end Loader												
Construction (11 acre site)	Soil Compactor												
	Water Truck												
	Concrete Pump (Truck Mounted)												
	Flatbed Truck												
Perimeter Vapor Probes	Foilblift												
	Misc Equipment (Generators, Compressors, Paving Equipment)												
	Tractor/Loader/Backhoe												
	Water Truck												
Off-site Truck Trips	Hollow Stem Drill Rig												
	Tractor/Loader/Backhoe												
	Offsite Delivery Trucks (Roundtrips)												
	Offsite Haul Trucks (Roundtrips)												
Worker Trips	Offsite Trash Trucks (Roundtrips)												
	Worker Trips - Calculated Total	11.0	11.0	11.0	11.5	11.5	5.8	4.5	3.1	2.7	2.7	2.7	2.7

Phase	Equipment Name	Hours	HP	Load	Trip Length	Year	2006												2007									
							1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8		
Site Preparation	6-8 CY Front-end Loaders	8	165	0.465													15.3	15.3	15.3	15.3	15.3	15.3	15.3					
	Bulldozer	8	352	0.59													55.7	55.7	55.7	55.7	55.7	55.7	55.7					
	Highway End Dump Trucks																14.6	14.6	14.6	14.6	14.6	14.6	14.6					
Deep Dynamic Compaction	Water Trucks	8	255	0.41	5											0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5					
	360-ton Crane	8	190	0.43	5											0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5					
	40-ton CM Highway Truck	8	417	0.49																								
Grading	8-CY Front-End Loaders	8	165	0.465																								
	Bulldozer	8	352	0.59	5																							
	Water Trucks	8	352	0.59																								
Remediation Construction	Front-End Loaders	8	165	0.465																								
	Grader	8	174	0.575																								
	Scrapers	8	313	0.66																								
Utilities/Roads	Shovel/Loaders Backhoe	8	50	0.62	5																							
	Water Trucks	8	313	0.66																								
	15-20 CY Scrapers	8	313	0.66																								
Pile Driving	30-50-ton Excavator	8	160	0.58																								
	2-3 CY Front End Loaders	8	165	0.465																								
	Small Backhoe	8	213	0.72																								
Construction and Tenant Improvements	Water Trucks	8	174	0.575																								
	Tractor/Loader/Backhoe	8	79	0.465																								
	Water Trucks	8	79	0.465																								
Site Preparation (11 acre site)	200-ton Crane	8	190	0.43																								
	Concrete Pump (Truck Mounted)	8	190	0.62																								
	Front-End Loader	8	165	0.465																								
Grading (11 acre site)	Misc Equipment (Generators, Compressors, etc.)	8	190	0.62																								
	Misc Equipment (Generators, Compressors, Paving Equipment)	8	190	0.62																								
	Tractor/Loader/Backhoe	8	79	0.465																								
Construction (11 acre site)	Water Truck	8	352	0.59																								
	Grader	8	174	0.575																								
	Misc Equipment (Generators, Compressors, Paving Equipment)	8	190	0.62																								
Perimeter Vapor Probes	Tractor/Loader/Backhoe	8	79	0.465																								
	Water Truck	8	313	0.66																								
	24-CY Scraper	8	313	0.66																								
Off-site Truck Trips	Bulldozer	8	352	0.59	20																							
	Graders	8	313	0.66	20																							
	Water Truck	8	190	0.62	20																							
Worker Trips	Concrete Pump (Truck Mounted)	4	190	0.62	20																							
	Flatbed Truck	8	190	0.62	20																							
	Misc Equipment (Generators, Compressors, Paving Equipment)	8	190	0.62	20																							
Total	Tractor/Loader/Backhoe	8	79	0.465	20																							
	Water Truck	8	313	0.66	20																							
	Hollow Stem Drill Rig	8	218	0.75	20																							
Off-site Delivery Trucks (Roundtrips)					11																							
Off-site Haul Trucks (Roundtrips)					30																							
Off-site Trash Trucks (Roundtrips)					20																							
Worker Trips - Calculated Total					20																							
						0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8



Phase	Equipment/Name	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	
Site Preparation	6-8 CY Front-end Loaders																	
	Bulldozer																	
	Highway End-Dump Trucks																	
	Tracked Loader																	
Deep Dynamic Compaction	Water Trucks	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2
	30-ton Front-End Loader	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2
	60-HP Highway Truck	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9
	8-CY Front-end Loaders	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3
Grading	Bulldozer	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	Front-end Loaders	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9
	Grader	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2
	Scraper	213.6	213.6	213.6	213.6	213.6	213.6	213.6	213.6	213.6	213.6	213.6	213.6	213.6	210.4	210.4	210.4	210.4
Remediation Construction	Sheepfoot Soil Compactor	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
	Water Trucks	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	15-20 CY Scrapers	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
	30-50-ton Excavator	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3
Utilities/Roads	6-8 CY Front End Loaders	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
	Hollow Stem Drill Rig	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
	Small Road Grader	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
	Water Trucks	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Pile Driving	300-ton Crane	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
	Concrete Pump (Truck Mounted)	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
	Finish Grader	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
	Misc Equipment (Generators, Compressors, Paving Equipment)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Construction and Tenant Improvements	Tractor/Loader/Backhoe	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	200-ton Crane	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
	30-50-ton Excavator	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3
	Misc Equipment (Generators, Compressors, etc.)	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
Site Preparation (11 acre site)	200-ton Crane	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
	Concrete Pump (Truck Mounted)	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7
	Roll-off Dumpster	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
	Misc Equipment (Generators, Compressors, etc.)	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
Grading (11 acre site)	Bulldozer	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
	Misc Equipment (Generators, Compressors, Paving Equipment)	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
	Tractor/Loader/Backhoe	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	Water Truck	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Construction (11 acre site)	24-CY Scraper	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4
	8-CY Front-end Loader	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
	Bulldozer	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3
	Graders	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
Perimeter Vapor Probes	Soil Compactor	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
	Water Truck	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
	Roll-off Dumpster (Truck Mounted)	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
	Flatbed Truck	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7
Off-site Truck Trips	Off-site Haul Trucks (Roundtrips)	2.1	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
	Off-site Trash Trucks (Roundtrips)	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	Worker Trips - Calculated Total	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	Worker Trips	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3

Phase	Equipment/Name	5	6	7	8	9	10	11	12	1	2	3	4
Site Preparation	6-3 CY Front-end Loaders												
	Bulldozer												
	Highway End Dump Trucks												
	Water Trucks												
Deep Dynamic Compaction	250-ton Crane												
	40-ton Off Highway Truck												
	6-CY Front-end Loaders												
	Bulldozer												
Grading	Water Trucks												
	Bulldozer												
	Front-end Loaders												
	Grader												
Remediation Construction	Scrapers												
	Sheepsfoot Soil Compactor												
	Water Trucks												
	15-20 CY Scrapers												
	30-50-ton Excavator												
	6-CY Front End Loaders												
	Backhoe Loader												
	Small Road Grader												
	Tractor/Loader/Backhoe												
	Water Trucks												
Utilities/Roads	200-ton Crane												
	Concrete Pump (Truck Mounted)												
	Finish Grader												
	Misc Equipment (Generators, Compressors, Paving Equipment)												
Pile Driving	Tractor/Loader/Backhoe												
	150-ton Pile Driver												
	200-ton Crane												
	30-50-ton Excavator												
Construction and Tenant Improvements	Misc Equipment (Generators, Compressors, etc)	2.0	3.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	200-ton Crane	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2
	Concrete Pump (Truck Mounted)	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	Formitt	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
	Front-end Loader	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6
	Misc Equipment (Generators, Compressors, etc)	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	Slinger Crane (Truck Mounted)	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
	Tractor/Loader/Backhoe	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
	Water Truck												
	Bulldozer												
	Grader												
	Site Preparation (11 acre site)	Misc Equipment (Generators, Compressors, Paving Equipment)											
Tractor/Loader/Backhoe													
Water Truck													
24-CY Scraper													
Grading (11 acre site)	6-CY Front-end Loader												
	Generator												
	Soil Compactor												
	Water Truck												
Construction (11 acre site)	Concrete Pump (Truck Mounted)	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
	Flatbed Truck	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
	Forklift	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2
	Misc Equipment (Generators, Compressors, Paving Equipment)	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6
Perimeter Vapor Probes	Tractor/Loader/Backhoe	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
	Water Truck	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
	Hollow Stem Drill Rig												
	Tractor/Loader/Backhoe												
Off-site Truck Trips	Offsite Delivery Trucks (Roundtrips)	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
	Offsite Haul Trucks (Roundtrips)	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	Offsite Trash Trucks (Roundtrips)	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
	Worker Trips - Calculated Total	11.0	11.0	11.0	11.5	11.5	11.5	5.8	5.8	4.5	3.1	2.7	2.7





Activity	2010	2010	2010	2010
Site Preparation	8-CY Front-end Loaders	0.0	0.0	4
Deep Dynamic Compaction	Highway End Dump Trucks	0.0	0.0	0.0
	Tracked Loader	0.0	0.0	0.0
	Water Trucks	0.0	0.0	0.0
	46-ton Off Highway Truck	0.0	0.0	0.0
Grading	8-CY Front-end Loaders	0.0	0.0	0.0
	Builder	0.0	0.0	0.0
	Water Trucks	0.0	0.0	0.0
	Front-end Loaders	0.0	0.0	0.0
Remediation Construction	Scrapers	0.0	0.0	0.0
	Sheepfoot Soil Compactor	0.0	0.0	0.0
	Water Trucks	0.0	0.0	0.0
	30-50-ton Excavator	0.0	0.0	0.0
	30-50-ton Excavator	0.0	0.0	0.0
	8-8 CY Front End Loaders	0.0	0.0	0.0
	Hollow Stem Drill Rig	0.0	0.0	0.0
	Small Road Grader	0.0	0.0	0.0
	Water Trucks	0.0	0.0	0.0
	Water Trucks	0.0	0.0	0.0
Utilities/Roads	200-ton Crane	0.0	0.0	0.0
	Concrete Pump (Truck Mounted)	0.0	0.0	0.0
Pile Driving	Finish Grader	0.0	0.0	0.0
	Mic Equipment (Generators, Compressors, Paving Equipment)	0.0	0.0	0.0
	Tractor/Loader/Backhoe	0.0	0.0	0.0
	150-ton Pile Driver	0.0	0.0	0.0
	200-ton Crane	0.0	0.0	0.0
	30-50-ton Excavator	0.0	0.0	0.0
	Water Trucks	0.0	0.0	0.0
	Mic Equipment (Generators, Compressors, etc.)	0.0	0.0	0.0
	Concrete Pump (Truck Mounted)	0.0	0.0	0.0
	Forklift	0.0	0.0	0.0
Construction and Remediation Improvements	Front-end Loader	0.0	0.0	0.0
	Water Trucks	0.0	0.0	0.0
	Skid Steer Loader (Truck Mounted)	0.1	0.1	0.1
	Tractor/Loader/Backhoe	0.0	0.0	0.0
	Water Truck	0.0	0.0	0.0
	Builder	0.0	0.0	0.0
	Mic Equipment (Generators, Compressors, Paving Equipment)	0.0	0.0	0.0
	Tractor/Loader/Backhoe	0.0	0.0	0.0
	Water Truck	0.0	0.0	0.0
	24-CY Scraper	0.0	0.0	0.0
Grading (11 acre site)	Water Truck	0.0	0.0	0.0
	30-ton Front-end Loader	0.0	0.0	0.0
	Graders	0.0	0.0	0.0
	Soil Compactor	0.0	0.0	0.0
	Water Truck	0.0	0.0	0.0
	Concrete Pump (Truck Mounted)	0.0	0.0	0.0
	Water Truck	0.0	0.0	0.0
	Grader	0.0	0.0	0.0
	Mic Equipment (Generators, Compressors, Paving Equipment)	0.0	0.0	0.0
	Tractor/Loader/Backhoe	0.0	0.0	0.0
Construction (11 acre site)	Water Truck	0.0	0.0	0.0
	Mic Equipment (Generators, Compressors, Paving Equipment)	0.0	0.0	0.0
	Tractor/Loader/Backhoe	0.0	0.0	0.0
	Water Truck	0.0	0.0	0.0
	Water Truck	0.0	0.0	0.0
	Water Truck	0.0	0.0	0.0
	Water Truck	0.0	0.0	0.0
	Water Truck	0.0	0.0	0.0
	Water Truck	0.0	0.0	0.0
	Water Truck	0.0	0.0	0.0
Perimeter Vapor Probes	Water Truck	0.0	0.0	0.0
	Water Truck	0.0	0.0	0.0
	Water Truck	0.0	0.0	0.0
	Water Truck	0.0	0.0	0.0
	Water Truck	0.0	0.0	0.0
	Water Truck	0.0	0.0	0.0
	Water Truck	0.0	0.0	0.0
	Water Truck	0.0	0.0	0.0
	Water Truck	0.0	0.0	0.0
	Water Truck	0.0	0.0	0.0
Off-site Truck Trips	Water Truck	0.0	0.0	0.0
	Water Truck	0.0	0.0	0.0
	Water Truck	0.0	0.0	0.0
	Water Truck	0.0	0.0	0.0
	Water Truck	0.0	0.0	0.0
	Water Truck	0.0	0.0	0.0
	Water Truck	0.0	0.0	0.0
	Water Truck	0.0	0.0	0.0
	Water Truck	0.0	0.0	0.0
	Water Truck	0.0	0.0	0.0
Worker Trips	Water Truck	0.0	0.0	0.0
	Water Truck	0.0	0.0	0.0
	Water Truck	0.0	0.0	0.0
	Water Truck	0.0	0.0	0.0
	Water Truck	0.0	0.0	0.0
	Water Truck	0.0	0.0	0.0
	Water Truck	0.0	0.0	0.0
	Water Truck	0.0	0.0	0.0
	Water Truck	0.0	0.0	0.0
	Water Truck	0.0	0.0	0.0
Fugitive Dust	Water Truck	0.0	0.0	0.0
	Water Truck	0.0	0.0	0.0
	Water Truck	0.0	0.0	0.0
	Water Truck	0.0	0.0	0.0
	Water Truck	0.0	0.0	0.0
	Water Truck	0.0	0.0	0.0
	Water Truck	0.0	0.0	0.0
	Water Truck	0.0	0.0	0.0
	Water Truck	0.0	0.0	0.0
	Water Truck	0.0	0.0	0.0

Carson Marketplace  
Construction Emissions  
PM10 (Milligrams)

RAP Refinements - Scenario 1 (Peak)

Emission Name	Equipment Name	Hours	HP	Lbs. Coal	Tip Length	Year											
						Month											
						1	2	3	4	5	6	7	8	9	10	11	12
Site Preparation	Front-end Loaders	8	352	0.59	5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Tracked Loader	8	265	0.41	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Water Trucks	8	190	0.43	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Motor Grader	8	165	0.45	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Deep Dynamic Compaction	Water Trucks	8	352	0.59	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Water Trucks	8	352	0.59	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Water Trucks	8	352	0.59	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Water Trucks	8	352	0.59	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Grading	Front-end Loaders	8	165	0.45	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Grader	8	174	0.57	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Motor Grader	8	165	0.45	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Water Trucks	8	352	0.59	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Remediation Construction	Water Trucks	8	352	0.59	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Water Trucks	8	352	0.59	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Water Trucks	8	352	0.59	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Water Trucks	8	352	0.59	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Utilities/Roads	Concrete Pump (Truck Mounted)	8	190	0.43	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Front-end Loader	8	165	0.45	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Motor Grader	8	165	0.45	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Water Trucks	8	352	0.59	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pile Driving	Water Trucks	8	352	0.59	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Water Trucks	8	352	0.59	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Water Trucks	8	352	0.59	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Water Trucks	8	352	0.59	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Construction and Tenant Improvements	Water Trucks	8	352	0.59	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Water Trucks	8	352	0.59	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Water Trucks	8	352	0.59	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Water Trucks	8	352	0.59	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Site Preparation (11 acre site)	Front-end Loader	8	165	0.45	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Motor Grader	8	165	0.45	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Water Trucks	8	352	0.59	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Water Trucks	8	352	0.59	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Grading (11 acre site)	Front-end Loader	8	165	0.45	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Motor Grader	8	165	0.45	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Water Trucks	8	352	0.59	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Water Trucks	8	352	0.59	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Construction (11 acre site)	Front-end Loader	8	165	0.45	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Motor Grader	8	165	0.45	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Water Trucks	8	352	0.59	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Water Trucks	8	352	0.59	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perimeter Vapor Probes	Water Trucks	8	352	0.59	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Water Trucks	8	352	0.59	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Water Trucks	8	352	0.59	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Water Trucks	8	352	0.59	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-site Truck Trips	Off-site Delivery Trucks (Roundtrips)	8	190	0.43	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Off-site Haul Trucks (Roundtrips)	8	190	0.43	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Off-site Worker Trucks (Roundtrips)	8	190	0.43	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Off-site Worker Trucks (Roundtrips)	8	190	0.43	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fugitive Dust	Engine Dust (acres per day) - Max	8	352	0.59	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Engine Dust (acres per day) - Normal	8	352	0.59	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Engine Dust (acres per day) - Normal	8	352	0.59	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Engine Dust (acres per day) - Normal	8	352	0.59	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Phase	Equipment Name	11	12	1	2	2010	3	4
Site Preparation	6-4 CY Front-end Loader							
	Bulldozer							
	Wheel End Dump Trucks							
	Tracked Loader							
Deep Dynamic Compaction	Water Trucks							
	250-ton Crane							
	40-ton Off Highway Truck							
	8-CY Front-end Loaders							
Grading	Water Trucks							
	Bulldozer							
	Front-end Loaders							
	Grader							
Remediation Construction	Scrapers							
	Wettable Soil Compactor							
	Water Trucks							
	15-20 CY Scraper							
Utilities/Roads	30-50-ton Excavator							
	6-4 CY Front End Loaders							
	Hollow Stem Drill Rig							
	Small Road Grader							
Pile Driving	Tractor/Loader/Backhoe							
	Water Trucks							
	200-ton Crane							
	Concrete Pump (Truck Mounted)							
Construction and Tenant Improvements	Finish Grader							
	Misc Equipment (Generators, Compressors, Paving Equipment)							
	Misc Equipment (Backhoe)							
	200-ton Crane							
Construction (11 acre site)	Water Truck							
	Misc Equipment (Generators, Compressors etc.)							
	20-ton Crane							
	Front-end Loader (Truck Mounted)							
Grading (11 acre site)	Front-end Loader							
	Misc Equipment (Generators, Compressors etc.)							
	Stinger Crane (Truck Mounted)							
	Tractor/Loader/Backhoe							
Construction (11 acre site)	Water Truck							
	Bulldozer							
	Grader							
	Misc Equipment (Generators, Compressors, Paving Equipment)							
Perimeter Vapor Probes	Water Truck							
	Concrete Pump (Truck Mounted)							
	Water Truck							
	Tractor/Loader/Backhoe							
Off-site Truck Trips	Water Truck							
	Tractor/Loader/Backhoe							
	Misc Equipment (Generators, Compressors, Paving Equipment)							
	Tractor/Loader/Backhoe							
Worker Trips	Water Truck							
	Hollow Stem Drill Rig							
	Tractor/Loader/Backhoe							
	Off-site Truck Trips							
Fugitive Dust	Off-site Truck Trips							
	Off-site Truck Trips (Residential)							
	Off-site Truck Trips (Commercial)							
	Off-site Truck Trips (Industrial)							
Fugitive Dust	Worker Trips - Calculated Total							
	Fugitive Dust (acre per day) - Max							
	Fugitive Dust (acre per day) - Normal							
	Fugitive Dust (yds per day) - Normal							



Phase	Equipment/Name	Hour	HP	Load	Trip Length	Year													
						2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017		
Site Preparation	15-CY Front-End Loader	8	105	0.65			2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7			
	Bladozer	8	352	0.59			0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1			
	Tractor/Loader/Backhoe	8	265	0.41			1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8			
	Water Trucks	8	190	0.43													2.9	2.9	2.9
	40-ton Off Highway Truck	8	417	0.49													2.2	2.2	2.2
Deep Dynamic Compaction	Front-End Loaders	8	174	0.52													3.7	3.7	3.7
	Bladozer	8	352	0.59													0.0	0.0	0.0
	Front-End Loaders	8	190	0.43													0.0	0.0	0.0
	Water Trucks	8	190	0.43													0.0	0.0	0.0
Grading	Bladozer	8	352	0.59															
	Front-End Loaders	8	190	0.43															
	Grader	8	174	0.52															
	Water Trucks	8	190	0.43															
Remediation Construction	Sheet/Pile Soil Compactor	8	50	0.82															
	Water Trucks	8	190	0.43													7.3	7.3	7.3
	15-20 CY Scrapers	8	313	0.66													3.7	3.7	3.7
	30-50-ton Excavator	8	190	0.59													5.8	5.8	5.8
	Front-End Loaders	8	190	0.43													1.8	1.8	1.8
	Small Road Grader	8	174	0.575													0.6	0.6	0.6
	Tractor/Loader/Backhoe	8	79	0.465													0.1	0.1	0.1
Utilities/Roads	20-ton Crane	8	190	0.43															
	Front-End Loader	8	190	0.43															
	Front-End Loader	8	190	0.43															
	Water Trucks	8	190	0.43													0.1	0.1	0.1
Pile Driving	Front-End Loader	8	190	0.43															
	Front-End Loader	8	190	0.43															
	Mac. Equipment (Generators, Compressors, Paving Equipment)	8	190	0.62															
	Tractor/Loader/Backhoe	8	79	0.465															
	150-ton Pile Driver	8	190	0.62															
	30-50-ton Excavator	8	190	0.59															
	Forklift	8	64	0.475															
	Mac. Equipment (Generators, Compressors, etc.)	8	190	0.62															
	Front-End Loader	8	190	0.43															
	Front-End Loader	8	94	0.725															
Construction and Tenant Improvements	Front-End Loader	8	165	0.465															
	Mac. Equipment (Generators, Compressors, etc.)	8	190	0.62															
	Slingshot Crane (Truck Mounted)	2	190	0.62															
	Water Truck	8	190	0.43															
	Bladozer	8	352	0.59															
	Grader	8	174	0.575															
	Mac. Equipment (Generators, Compressors, Paving Equipment)	8	190	0.62															
	Tractor/Loader/Backhoe	8	79	0.465															
	Water Truck	8	190	0.43															
	Site Preparation (11 acre site)	Bladozer	8	352	0.59														
Grader		8	174	0.575															
Mac. Equipment (Generators, Compressors, Paving Equipment)		8	190	0.62															
Tractor/Loader/Backhoe		8	79	0.465															
Water Truck		8	190	0.43															
Front-End Loader		8	94	0.725															
Grading (11 acre site)	24-CY Scissor	8	313	0.66															
	8-CY Front-End Loader	8	165	0.465															
	Bladozer	8	352	0.59															
	Graders	8	174	0.575															
	Water Truck	8	190	0.43															
Construction (11 acre site)	Concrete Pump (Truck Mounted)	4	190	0.62															
	Flashed Truck																		
	Front-End Loader	8	190	0.43															
	Mac. Equipment (Generators, Compressors, Paving Equipment)	8	190	0.62															
Perimeter Vapor Probes	Tractor/Loader/Backhoe	8	79	0.465															
	Water Truck	8	190	0.43															
	Bladozer	8	352	0.59															
	Front-End Loader	8	190	0.43															
	Water Truck	8	190	0.43															
Off-site Truck Trips	Water Truck	8	190	0.43															
	Water Truck	8	190	0.43															
	Water Truck	8	190	0.43															
	Water Truck	8	190	0.43															
	Water Truck	8	190	0.43															
Worker Trips	Water Truck	8	218	0.75															
	Water Truck	8	218	0.75															
	Water Truck	8	218	0.75															
	Water Truck	8	218	0.75															
Architectural Coatings	Architectural Coatings - Commercial Square Footage per month																0.8	0.8	0.8
	Architectural Coatings - Residential Square Footage per month																0.2	0.2	0.2
	Asphalt (acres per month)																0.1	0.1	0.1



Activity	Equipment/Model	Hours	2010	3	4
Site Preparation	6.4 CY Front-End Loader				
	Bulldozer				
	Highway End Dump Trucks				
	Tracked Loader				
Deep Dynamic Compaction	35-ton Trucks				
	42-ton Off Highway Truck				
	6.4 CY Front and Loaders				
	Bulldozer				
Grading	Water Trucks				
	Front-End Loaders				
	Grader				
	Scrapers				
Remediation Construction	Sheepsfoot Soil Compactor				
	Water Trucks				
	6.4 CY Front-End Loader				
	35-ton Excavator				
Utilities/Roads	6.4 CY Front End Loaders				
	Small Road Grader				
	Water Trucks				
	Water Trucks				
Pile Driving	200-ton Crane				
	Concrete Pump (Truck Mounted)				
	Crane				
	Crane				
Construction and Tenant Improvements	200-ton Crane				
	Concrete Pump (Truck Mounted)				
	Excavator				
	Excavator				
Site Preparation (11 acre site)	Water Truck				
	Water Truck				
	Water Truck				
	Water Truck				
Grading (11 acre site)	Water Truck				
	Water Truck				
	Water Truck				
	Water Truck				
Construction (11 acre site)	Water Truck				
	Water Truck				
	Water Truck				
	Water Truck				
Perimeter Vapor Probes	Water Truck				
	Water Truck				
	Water Truck				
	Water Truck				
Off-site Truck Tips	Off-site Delivery Trucks (Roundtrips)	0.1	0.1	0.1	
	Off-site Haul Trucks (Roundtrips)	0.1	0.1	0.1	
	Off-site Trash Trucks (Roundtrips)	0.1	0.1	0.1	
	Off-site Fuel Trucks (Roundtrips)	0.1	0.1	0.1	
Worker Tips	Worker Tips - Calculated Total	2.8	2.8	2.8	
	Worker Tips - Estimated (Savings Estimate per month)	391.9	336.4	336.4	
	Architectural Coatings - Residential Square Footage per month				
	Asphalt (area per month)				

RAP Refinements - Scenario 1 (Peak)  
 Carson Marketplace  
 Construction Emissions  
 ROI (Miles)

Phase	Equipment/Name	Hours	HP	Load	Year	2004	2005	2006	2007	2008	2009	2010	2011	2012
Site Preparation	Backhoe	8	352	0.59	1	0	0	0	0	0	0	0	0	0
	Excavator	8	352	0.59	1	0	0	0	0	0	0	0	0	0
	Tracked Loader	8	255	0.41	1	0	0	0	0	0	0	0	0	0
	Water Trucks	8	185	0.31	1	0	0	0	0	0	0	0	0	0
	Tractor/Loader/Backhoe	8	165	0.465	1	0	0	0	0	0	0	0	0	0
Deep Dynamic Compaction	Water Trucks	8	185	0.31	1	0	0	0	0	0	0	0	0	0
	Tractor/Loader/Backhoe	8	165	0.465	1	0	0	0	0	0	0	0	0	0
	Water Trucks	8	352	0.59	1	0	0	0	0	0	0	0	0	0
	Front-end Loader	8	174	0.575	1	0	0	0	0	0	0	0	0	0
	Scrubber	8	313	0.66	1	0	0	0	0	0	0	0	0	0
Remediation Construction	Water Trucks	8	185	0.31	1	0	0	0	0	0	0	0	0	0
	Tractor/Loader/Backhoe	8	165	0.465	1	0	0	0	0	0	0	0	0	0
	Water Trucks	8	185	0.31	1	0	0	0	0	0	0	0	0	0
	Tractor/Loader/Backhoe	8	165	0.465	1	0	0	0	0	0	0	0	0	0
	Water Trucks	8	185	0.31	1	0	0	0	0	0	0	0	0	0
Utilities/Roads	Concrete Pump (Truck Mounted)	8	190	0.43	1	0	0	0	0	0	0	0	0	0
	Finish Grader	8	174	0.575	1	0	0	0	0	0	0	0	0	0
	Misc Equipment (Generators/Compressors/Paving Equipment)	8	190	0.43	1	0	0	0	0	0	0	0	0	0
	Tractor/Loader/Backhoe	8	165	0.465	1	0	0	0	0	0	0	0	0	0
	Water Truck	8	185	0.31	1	0	0	0	0	0	0	0	0	0
Pile Driving	Water Truck	8	185	0.31	1	0	0	0	0	0	0	0	0	0
	Concrete Pump (Truck Mounted)	8	190	0.43	1	0	0	0	0	0	0	0	0	0
	Front-end Loader	8	174	0.575	1	0	0	0	0	0	0	0	0	0
	Misc Equipment (Generators/Compressors etc.)	8	190	0.43	1	0	0	0	0	0	0	0	0	0
	Tractor/Loader/Backhoe	8	165	0.465	1	0	0	0	0	0	0	0	0	0
Construction and Tenant Improvement	Water Truck	8	185	0.31	1	0	0	0	0	0	0	0	0	0
	Concrete Pump (Truck Mounted)	8	190	0.43	1	0	0	0	0	0	0	0	0	0
	Front-end Loader	8	174	0.575	1	0	0	0	0	0	0	0	0	0
	Misc Equipment (Generators/Compressors etc.)	8	190	0.43	1	0	0	0	0	0	0	0	0	0
	Tractor/Loader/Backhoe	8	165	0.465	1	0	0	0	0	0	0	0	0	0
Site Preparation (11 acre site)	Water Truck	8	185	0.31	1	0	0	0	0	0	0	0	0	0
	Concrete Pump (Truck Mounted)	8	190	0.43	1	0	0	0	0	0	0	0	0	0
	Front-end Loader	8	174	0.575	1	0	0	0	0	0	0	0	0	0
	Misc Equipment (Generators/Compressors/Paving Equipment)	8	190	0.43	1	0	0	0	0	0	0	0	0	0
	Tractor/Loader/Backhoe	8	165	0.465	1	0	0	0	0	0	0	0	0	0
Grading (11 acre site)	Water Truck	8	185	0.31	1	0	0	0	0	0	0	0	0	0
	Concrete Pump (Truck Mounted)	8	190	0.43	1	0	0	0	0	0	0	0	0	0
	Front-end Loader	8	174	0.575	1	0	0	0	0	0	0	0	0	0
	Misc Equipment (Generators/Compressors/Paving Equipment)	8	190	0.43	1	0	0	0	0	0	0	0	0	0
	Tractor/Loader/Backhoe	8	165	0.465	1	0	0	0	0	0	0	0	0	0
Construction (11 acre site)	Water Truck	8	185	0.31	1	0	0	0	0	0	0	0	0	0
	Concrete Pump (Truck Mounted)	8	190	0.43	1	0	0	0	0	0	0	0	0	0
	Front-end Loader	8	174	0.575	1	0	0	0	0	0	0	0	0	0
	Misc Equipment (Generators/Compressors/Paving Equipment)	8	190	0.43	1	0	0	0	0	0	0	0	0	0
	Tractor/Loader/Backhoe	8	165	0.465	1	0	0	0	0	0	0	0	0	0
Perimeter Vapor Probe	Water Truck	8	185	0.31	1	0	0	0	0	0	0	0	0	0
	Concrete Pump (Truck Mounted)	8	190	0.43	1	0	0	0	0	0	0	0	0	0
	Front-end Loader	8	174	0.575	1	0	0	0	0	0	0	0	0	0
	Misc Equipment (Generators/Compressors/Paving Equipment)	8	190	0.43	1	0	0	0	0	0	0	0	0	0
	Tractor/Loader/Backhoe	8	165	0.465	1	0	0	0	0	0	0	0	0	0
Office Truck Trips	Water Truck	8	185	0.31	1	0	0	0	0	0	0	0	0	0
	Concrete Pump (Truck Mounted)	8	190	0.43	1	0	0	0	0	0	0	0	0	0
	Front-end Loader	8	174	0.575	1	0	0	0	0	0	0	0	0	0
	Misc Equipment (Generators/Compressors/Paving Equipment)	8	190	0.43	1	0	0	0	0	0	0	0	0	0
	Tractor/Loader/Backhoe	8	165	0.465	1	0	0	0	0	0	0	0	0	0
Worker Trips	Water Truck	8	185	0.31	1	0	0	0	0	0	0	0	0	0
	Concrete Pump (Truck Mounted)	8	190	0.43	1	0	0	0	0	0	0	0	0	0
	Front-end Loader	8	174	0.575	1	0	0	0	0	0	0	0	0	0
	Misc Equipment (Generators/Compressors/Paving Equipment)	8	190	0.43	1	0	0	0	0	0	0	0	0	0
	Tractor/Loader/Backhoe	8	165	0.465	1	0	0	0	0	0	0	0	0	0
Architectural Coatings	Water Truck	8	185	0.31	1	0	0	0	0	0	0	0	0	0
	Concrete Pump (Truck Mounted)	8	190	0.43	1	0	0	0	0	0	0	0	0	0
	Front-end Loader	8	174	0.575	1	0	0	0	0	0	0	0	0	0
	Misc Equipment (Generators/Compressors/Paving Equipment)	8	190	0.43	1	0	0	0	0	0	0	0	0	0
	Tractor/Loader/Backhoe	8	165	0.465	1	0	0	0	0	0	0	0	0	0

Phase	2008																								
Equipment/Name	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
Site Preparation	6-CY Front-end Loader	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Deep Dynamic Compaction	Highway End Dump Trucks	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Water Trucks	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Grading	250-ton Crane	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Front-end Loader	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Skid Steer Loader	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Bulldozer	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Remediation Construction	Water Trucks	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	15-25 CY Scrapers	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Utilities/Roads	Skid Steer Loader	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Small Road Grader	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Tractor/Loader/Backhoe	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pile Driving	Concrete Pump (Truck Mounted)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	Finish Grader	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Misc Equipment (Generator, Compressor, Paving Equipment)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Construction and Tenant Improvements	Tractor/Loader/Backhoe	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
	30-50-ton Excavator	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
	Front-end Loader	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Soil Preparation (11 acre site)	Misc Equipment (Generators/Compressors etc)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	Concrete Pump (Truck Mounted)	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
	Grader	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Grading (11 acre site)	Misc Equipment (Generators/Compressors/Paving Equipment)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	Water Truck	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	24-CY Scraper	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Construction (11 acre site)	Bulldozer	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
	Skid Steer Loader	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	Water Truck	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Perimeter Vapor Probes	Concrete Pump (Truck Mounted)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	Flatbed Truck	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Front-end Loader	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
Off-site Truck Trips	Misc Equipment (Generator, Compressor, Paving Equipment)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	Tractor/Loader/Backhoe	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
	Water Truck	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Architectural Coatings	Hollow Stem Drill Rig	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
	Tractor/Loader/Backhoe	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
	Office Truck Trips	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Asphalt	Water Trucks	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	Architectural Coatings - Commercial Square Footage per month	991.9	991.9	991.9	991.9	991.9	991.9	991.9	991.9	991.9	991.9	991.9	991.9	991.9	991.9	991.9	991.9	991.9	991.9	991.9	991.9	991.9	991.9	991.9	991.9
	Architectural Coatings - Residential Square Footage per month	998.2	998.2	998.2	998.2	998.2	998.2	998.2	998.2	998.2	998.2	998.2	998.2	998.2	998.2	998.2	998.2	998.2	998.2	998.2	998.2	998.2	998.2	998.2	998.2
Total	Asphalt	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2
	Architectural Coatings	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7
	Perimeter Vapor Probes	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2

Activity	Equipment Name	2010	2010	2010
Site Preparation	Motor Grader/Loader		2	3
	Excavator			4
	Highway End Dump Truck			
	Tracked Loader			
Deep Dynamic Compaction	Water Trucks			
	60-100 Highway Truck			
	8-CY Front-end Loader			
	Water Trucks			
Grading	Motor Grader			
	Water Trucks			
	Grader			
	Water Trucks			
Remediation Construction	Sheepfoot Soil Compactor			
	Water Trucks			
	30-50-ton Excavator			
	8-8 CY Front End Loaders			
	Hollow Stem Drill Rig			
	Small Road Grader			
	Water Trucks			
	Water Trucks			
	300-ton Crane			
	Concrete Pump (Truck Mounted)			
	Finish Grader			
	Misc. Equipment (Generator/Compressor/Paving Equipment)			
Pile Driving	155-ton Pile Driver			
	200-ton Crane			
	30-50-ton Excavator			
	Finish Grader			
	Misc. Equipment (Generator/Compressor/Paving Equipment)			
	300-ton Crane		0.3	
	Concrete Pump (Truck Mounted)		2.0	
	Front-end Loader		0.7	0.7
	Misc. Equipment (Generator/Compressor/etc.)		1.3	
	Tractor/Loader/Backhoe		2.0	2.0
	Water Truck		0.8	0.8
	Water Truck		0.1	0.1
Construction and Tenant Improvements	Excavator			
	Tractor/Loader/Backhoe			
	Water Truck			
	Water Truck			
	24-CY Scraper			
	8-CY Front-end Loader			
	Grader			
	Soil Compactor			
	Water Truck			
	Concrete Pump (Truck Mounted)			
	Water Truck			
	Site Preparation (11 acre site)	Tractor/Loader/Backhoe		
Water Truck				
Water Truck				
24-CY Scraper				
8-CY Front-end Loader				
Grader				
Soil Compactor				
Water Truck				
Concrete Pump (Truck Mounted)				
Water Truck				
Water Truck				
Grading (11 acre site)		Tractor/Loader/Backhoe		
	Water Truck			
	Water Truck			
	24-CY Scraper			
	8-CY Front-end Loader			
	Grader			
	Soil Compactor			
	Water Truck			
	Concrete Pump (Truck Mounted)			
	Water Truck			
	Water Truck			
	Construction (11 acre site)	Tractor/Loader/Backhoe		
Water Truck				
Water Truck				
24-CY Scraper				
8-CY Front-end Loader				
Grader				
Soil Compactor				
Water Truck				
Concrete Pump (Truck Mounted)				
Water Truck				
Water Truck				
Perimeter Vapor Probes		Office Delivery Trucks (Roundtrips)		0.1
	Office Delivery Trucks (Roundtrips)		0.1	0.1
	Office Haul Trucks (Roundtrips)		0.1	0.1
	Office Trash Trucks (Roundtrips)		0.1	0.1
	Worker Trips - Calculated Total		2.8	2.8
	Architectural Coatings - Commercial Square Footage per month		391.9	396.4
	Architectural Coatings - Residential Square Footage per month			
	Asphalt (acres per month)			



Carson Marketplace  
Construction Emissions  
CO (Unmitigated)

Phase	Equipment/Items	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4		
Site Preparation	5-8 CY Front-end Loaders																		
	Bulldozer																		
	Highway End Dump Trucks																		
	Tracked Loader																		
	Water Trucks																		
	250-ton Crane	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	
	40-ton Off Highway Truck	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	
	30-ton Front-end Loaders	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	
	Bulldozer	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	
	Water Trucks	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Grading	Bulldozer	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	
	Front-end Loaders	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	
	Grader	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	
	Scrapers	309.7	309.7	309.7	309.7	309.7	309.7	309.7	309.7	309.7	309.7	309.7	309.7	309.7	309.7	309.7	309.7	309.7	
	Sheepfoot Soil Compactor	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	
	Water Trucks	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
	Remediation Construction	15-20 CY Scrapers	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
		30-50-ton Excavator	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3
		6-8 CY Front End Loaders	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
		Hollow Stem Drill Rig	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0
Small Road Grader		15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	
Tractor/Loader/Backhoe		4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	
Water Trucks		0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
Utilities/Roads		Concrete Pump (Truck Mounted)	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
		Fresh Grader	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9
		Misc Equipment (Generators, Compressors, Paving Equipment)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
	Tractor/Loader/Backhoe	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	
	150-ton Pile Driver	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	
	200-ton Crane	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	
	30-50-ton Excavator	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	
	Forklift	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	
	Misc Equipment (Generators, Compressors, etc.)	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	
	200-ton Crane	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	
Construction and Tenant Improvements	Concrete Pump (Truck Mounted)	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	
	Fresh Grader	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	
	Misc Equipment (Generators, Compressors, Paving Equipment)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	
	Tractor/Loader/Backhoe	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	
	150-ton Pile Driver	46.1	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	
	200-ton Crane	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	
	30-50-ton Excavator	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	
	Forklift	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	
	Misc Equipment (Generators, Compressors, etc.)	15.4	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	
	200-ton Crane	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	
Site Preparation (11 acre site)	Bulldozer	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	
	Grader	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	
	Misc Equipment (Generators, Compressors, Paving Equipment)	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	
	Tractor/Loader/Backhoe	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	
	Water Truck	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
	24-CY Scraper	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	
	8-CY Front-end Loader	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	
	Bulldozer	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	
	Graders	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	
	Soil Compactor	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
Construction (11 acre site)	Concrete Pump (Truck Mounted)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	
	Front-end Loader	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	
	Misc Equipment (Generators, Compressors, etc.)	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	
	Tractor/Loader/Backhoe	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	
	Water Truck	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
	Hollow Stem Drill Rig	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	
	Tractor/Loader/Backhoe	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	
	Off-site Delivery Trucks (Roundtrips)	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
	Off-site Trash Trucks (Roundtrips)	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	
	Worker Trips - Calculated Total	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	



Phase	Equipment/Name	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Site Preparation	6-8 CY Front-end Loaders																
	Bulldozer																
	Highway End Dump Trucks																
	Tracked Loader																
Deep Dynamic Compaction	Water Trucks																
	250-ton Crane																
	40-ton Off Highway Truck																
	8-CY Front-end Loaders																
Grading	Bulldozer																
	Water Trucks																
	Front-end Loaders																
	Graders																
Remediation Construction	Sheepsfoot Soil Compactor																
	Water Trucks																
	15-20 CY Scrapers																
	30-50-ton Excavator																
Utilities/Roads	6-8 CY Front End Loaders																
	Hollow Stem Drill Rig																
	Small Road Grader																
	Tractor/Loader/Backhoe																
Pile Driving	Water Trucks																
	200-ton Crane																
	Concrete Pump (Truck Mounted)																
	Crane																
Construction and Tenant Improvements	Misc Equipment (Generators, Compressors, Paving Equipment)																
	Tractor/Loader/Backhoe																
	150-ton Pile Driver																
	200-ton Crane																
Grading (11 acre site)	30-50-ton Excavator																
	Forklift																
	Misc Equipment (Generators, Compressors etc.)																
	Concrete Pump (Truck Mounted)																
Construction (11 acre site)	Forklift																
	Front-end Loader																
	Misc Equipment (Generators, Compressors etc.)																
	Single Crane (Truck Mounted)																
Construction (11 acre site)	Tractor/Loader/Backhoe																
	Water Truck																
	Generator																
	Misc Equipment (Generators, Compressors, Paving Equipment)																
Construction (11 acre site)	Tractor/Loader/Backhoe																
	Water Truck																
	24-CY Scraper																
	8-CY Front-end Loader																
Construction (11 acre site)	Bulldozer																
	Graders																
	Soil Compactor																
	Water Truck																
Perimeter Vapor Probes	Concrete Pump (Truck Mounted)																
	Flatbed Truck																
	Forklift																
	Misc Equipment (Generators, Compressors, Paving Equipment)																
Off-site Truck Trips	Tractor/Loader/Backhoe																
	Water Truck																
	Hollow Stem Drill Rig																
	Tractor/Loader/Backhoe																
Worker Trips	Offsite Delivery Trucks (Roundtrips)																
	Offsite Haul Trucks (Roundtrips)																
	Offsite Trash Trucks (Roundtrips)																
	Worker Trips - Calculated Total																



Carson Marketplace  
Construction Emissions  
CO (Mitigated)

Phase	2008																
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	
<b>Site Preparation</b>																	
5-8 CY Front-end Loaders																	
Bulldozer																	
Highway End Dump Trucks																	
Tracked Loader																	
Water Trucks																	
<b>Deep Dynamic Compaction</b>																	
250-ton Crane	23.3	23.3	23.3	23.3	23.3												
40-ton Off Highway Truck	58.2	58.2	58.2	58.2	58.2												
8-CY Front-end Loaders	21.9	21.9	21.9	21.9	21.9												
Bulldozer	25.7	25.7	25.7	25.7	25.7												
Water Trucks	0.2	0.2	0.2	0.2	0.2												
<b>Grading</b>																	
Bulldozer	53.4	53.4	53.4	53.4	53.4												
Front-end Loaders	31.6	31.6	31.6	31.6	31.6												
Graders	28.5	28.5	28.5	28.5	28.5												
Scrapers	284.2	284.2	284.2	284.2	284.2												
Sheepsfoot Soil Compactor	8.0	8.0	8.0	8.0	8.0												
Water Trucks	0.2	0.2	0.2	0.2	0.2												
<b>Remediation Construction</b>																	
15-20 CY Scrapers	58.8	58.8	58.8	58.8	58.8												
30-50-ton Excavator	29.7	29.7	29.7	29.7	29.7												
6-8 CY Front End Loaders	10.9	10.9	10.9	10.9	10.9												
Hollow Stem Drill Rig	46.6	46.6	46.6	46.6	46.6												
Small Road Grader	14.2	14.2	14.2	14.2	14.2												
Tractor/Loader/Backhoe	4.6	4.6	4.6	4.6	4.6												
Water Trucks	0.3	0.3	0.3	0.3	0.3												
<b>Utilities/Roads</b>																	
200-ton Crane																	
Concrete Pump (Truck Mounted)																	
Misc Equipment (Generators, Compressors, Paving Equipment)																	
Trencher																	
Tractor/Loader/Backhoe																	
150-ton Pile Driver	43.8	45.4	45.4	45.4	45.4												
200-ton Crane	11.6	11.6	11.6	11.6	11.6												
30-50-ton Excavator	29.7	29.7	29.7	29.7	29.7												
Forklift	6.4	6.4	6.4	6.4	6.4												
Misc Equipment (Generators, Compressors, etc.)	14.6	15.1	15.1	15.1	15.1												
Concrete Pump (Truck Mounted)																	
Forklift																	
Front-end Loader																	
Misc Equipment (Generators, Compressors, etc.)																	
Slinger Crane (Truck Mounted)																	
Tractor/Loader/Backhoe																	
Water Truck																	
Bulldozer																	
Misc Equipment (Generators, Compressors, Paving Equipment)																	
Tractor/Loader/Backhoe																	
Water Truck																	
<b>Grading (11 acre site)</b>																	
24-CY Scraper																	
8-CY Front-end Loader																	
Bulldozer																	
Graders																	
Soil Compactor																	
Water Truck																	
<b>Construction (11 acre site)</b>																	
Concrete Pump (Truck Mounted)																	
Flatbed Truck																	
Forklift																	
Misc Equipment (Generators, Compressors, Paving Equipment)																	
Tractor/Loader/Backhoe																	
Water Truck																	
150-ton Drill Rig																	
Tractor/Loader/Backhoe																	
Off-site Delivery Trucks (Roundtrips)																	
Off-site Haul Trucks (Roundtrips)																	
Off-site Trash Trucks (Roundtrips)																	
<b>Worker Trips</b>	12.3	12.3	12.3	12.3	12.3	17.4	27.4	27.4	27.4	31.6	41.5	40.1	35.9	35.9	129.3	129.3	129.3
<b>Worker Trips - Calculated Total</b>																	

Carson Marketplace  
Construction Emissions  
CO (Mitigated)

Phase	Equipment/Name	5	6	7	8	9	10	11	12	1	2	3	4
Site Preparation	5-8 CY Front-end Loaders												
	Buildozer												
	Highway End Dump Trucks												
	Tracked Loader												
Deep Dynamic Compaction	Water Trucks												
	250-ton Crane												
	40-ton Off Highway Truck												
	8-CY Front-end Loaders												
Grading	Buildozer												
	Water Trucks												
	Front-end Loaders												
	Graders												
Remediation Construction	Sheepsfoot Soil Compactor												
	Water Trucks												
	15-20 CY Scrapers												
	30-50-ton Excavator												
	6-8 CY Front End Loaders												
	Hollow Stem Drill Rig												
	Small Road Grader												
	Tractor/Loader/Backhoe												
	Water Trucks												
	200-ton Crane												
Utilities/Roads	Concrete Pump (Truck Mounted)												
	Graders												
	Misc Equipment (Generators, Compressors, Paving Equipment)												
	Tractor/Loader/Backhoe												
	150-ton Pile Driver												
	200-ton Crane												
	30-50-ton Excavator												
	Forklift												
	Misc Equipment (Generators, Compressors etc.)												
	200-ton Crane												
Construction and Tenant Improvements	Concrete Pump (Truck Mounted)	2.8	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
	Forklift	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4
	Front-end Loader	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
	Misc Equipment (Generators, Compressors etc.)	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9
	Tractor/Loader/Backhoe	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7
	Water Trucks	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
	Tractor/Loader/Backhoe	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
	Water Truck	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
	Buildozer												
	Grader												
Site Preparation (11 acre site)	Misc Equipment (Generators, Compressors, Paving Equipment)												
	Tractor/Loader/Backhoe												
	Water Truck												
	24-CY Scraper												
Grading (11 acre site)	Buildozer												
	Graders												
	Soil Compactor												
	Water Truck												
Construction (11 acre site)	Concrete Pump (Truck Mounted)	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
	Front-end Loader	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
	Forklift	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4
	Misc Equipment (Generators, Compressors, Paving Equipment)	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
Perimeter Vapor Probes	Water Truck	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
	Hollow Stem Drill Rig												
	Tractor/Loader/Backhoe												
	Off-site Delivery Trucks (Roundtrips)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Off-site Truck Trips	Off-site Haul Trucks (Roundtrips)	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	Off-site Trash Trucks (Roundtrips)	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
	Off-site Haul Trucks (Roundtrips)	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0
	Worker Trips - Calculated Total	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0
Worker Trips	Off-site Haul Trucks (Roundtrips)												
	Off-site Trash Trucks (Roundtrips)												
	Off-site Haul Trucks (Roundtrips)												
	Worker Trips - Calculated Total	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0

Phases	Equipment/Name	Hours	HP	Load	Trip Length (Month)	2007																							
						1	2	3	4	5	6	7	8	9	10	11	12												
Site Preparation	6-8 CY Front-end Loaders	8	165	0.465																									
	Bulldozer	8	352	0.59																									
	Highway End Dump Trucks																												
	Tracked Loader	8	235	0.41																									
	Water Trucks																												
	3600 Off Highway Truck	8	190	0.43																									
	40-100 Off Highway Truck	8	417	0.48																									
	6-CY Front-end Loaders	8	165	0.465																									
	Bulldozer	8	352	0.59																									
	Bulldozer	8	352	0.59																									
Front-end Loaders	8	165	0.465																										
Grader	8	174	0.575																										
Scrapers	8	313	0.66																										
Sheepfoot Soil Compactor	8	50	0.62																										
Water Trucks																													
15-20 CY Scrapers	8	313	0.66																										
30-50-ton Excavator	8	190	0.58																										
6-8 CY Front End Loaders	8	165	0.465																										
Rollow Stem Drill Rig	8	78	0.72																										
Tractor/Loader/Backhoe	8	79	0.62																										
Water Trucks																													
200-ton Crane	8	190	0.43																										
Concrete Pump (Truck Mounted)	8	190	0.62																										
Finish Grader	8	174	0.575																										
Misc Equipment (Generators, Compressors, Paving Equipment)	8	190	0.62																										
Tractor/Loader/Backhoe	8	79	0.465																										
150-ton Pile Driver	8	190	0.62																										
200-ton Crane	8	190	0.43																										
30-50-ton Excavator	8	190	0.58																										
Forklift	8	94	0.475																										
Misc Equipment (Generators, Compressors, etc.)	8	190	0.62																										
200-ton Crane	2	190	0.43																										
Concrete Pump (Truck Mounted)	8	190	0.62																										
Front-end Loader	8	165	0.465																										
Misc Equipment (Generators, Compressors, etc.)	8	190	0.62																										
Slipper Crane (Truck Mounted)	2	190	0.62																										
Tractor/Loader/Backhoe	8	79	0.465																										
Water Truck																													
Bulldozer	8	352	0.59																										
Grader	8	174	0.575																										
Misc Equipment (Generators, Compressors, Paving Equipment)	8	190	0.62																										
Tractor/Loader/Backhoe	8	79	0.465																										
Water Truck																													
24-CY Scraper	8	313	0.66																										
8-CY Front-end Loader	8	165	0.465																										
Bulldozer	8	352	0.59																										
Graders	8	174	0.575																										
Water Truck	8	190	0.62																										
Concrete Pump (Truck Mounted)	4	190	0.62																										
Flatbed Truck																													
Forklift	8	190	0.62																										
Misc Equipment (Generators, Compressors, Paving Equipment)	8	190	0.62																										
Tractor/Loader/Backhoe	8	79	0.465																										
Water Truck																													
Hollow Stem Drill Rig	8	218	0.75																										
Tractor/Loader/Backhoe	8	79	0.465																										
Off-site Delivery Trucks (Roundtrips)																													
Off-site Haul Trucks (Roundtrips)																													
Off-site Trash Trucks (Roundtrips)																													
Worker Trips - Calculated Total						0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.3		

Carson Marketplace  
Construction Emissions  
NOx (Unmitigated)

Phase	Equipment/Name	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4		
Site Preparation	6-8 CY Front-end Loaders																		
	Bulldozer																		
	Highway End Dump Trucks																		
	Tracked Loader																		
	Water Trucks																		
	250-ton Crane	17.4	17.4	17.4	17.4	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	
	40-ton Off Highway Truck	44.2	44.2	44.2	44.2	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	
	8-CY Front-end Loaders	15.1	15.1	15.1	15.1	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	
	Bulldozer	27.9	27.9	27.9	27.9	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	
	Water Trucks	0.2	0.2	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
Grading	Bulldozer	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	
	Front-end Loaders	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	
	Grader	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	
	Scraper	224.8	224.8	224.8	224.8	224.8	224.8	224.8	224.8	224.8	224.8	224.8	224.8	224.8	224.8	224.8	224.8	224.8	
	Sheepfoot Soil Compactor	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	
	Water Trucks	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
	15-20 CY Scrapers	45.6	45.6	45.6	45.6	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	
	30-50-ton Excavator	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	
	6-8 CY Front End Loaders	8.0	8.0	8.0	8.0	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	
	Hollow Stem Drill Rig	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	
Remediation Construction	Small Road Grader	10.8	10.8	10.8	10.8	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	
	Tractor/Loader/Backhoe	4.9	4.9	4.9	4.9	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	
	Water Trucks	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
	200-ton Crane																		
	Concrete Pump (Truck Mounted)																		
	Misc Equipment (Generators, Compressors, Paving Equipment)																		
	Tractor/Loader/Backhoe																		
	150-ton Pile Driver	47.6	47.6	47.6	47.6	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	
	200-ton Crane	8.7	8.7	8.7	8.7	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	
	Pile Driving	30-50-ton Excavator	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4
Forklift		4.7	4.7	4.7	4.7	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	
Misc Equipment (Generators, Compressors, etc.)		15.9	15.9	15.9	15.9	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	
200-ton Crane																			
Concrete Pump (Truck Mounted)																			
Forklift																			
Front-end Loader																			
Misc Equipment (Generators, Compressors, etc.)																			
Slinger Crane (Truck Mounted)																			
Tractor/Loader/Backhoe																			
Construction and Tenant Improvements	Water Truck																		
	Bulldozer																		
	Grader																		
	Misc Equipment (Generators, Compressors, Paving Equipment)																		
	Tractor/Loader/Backhoe																		
	Water Truck																		
	24-CY Scraper																		
	8-CY Front-end Loader																		
	Bulldozer																		
	Graders																		
Site Preparation (11 acre site)	Soil Compactor																		
	Water Truck																		
	Concrete Pump (Truck Mounted)																		
	Flatbed Truck																		
	Forklift																		
	Misc Equipment (Generators, Compressors, Paving Equipment)																		
	Tractor/Loader/Backhoe																		
	Water Truck																		
	Hollow Stem Drill Rig																		
	Tractor/Loader/Backhoe																		
Construction (11 acre site)	Offsite Delivery Trucks (Roundtrips)	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	
	Offsite Haul Trucks (Roundtrips)	2.1	2.1	2.1	2.1	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	
	Offsite Trash Trucks (Roundtrips)																		
	Worker Trips - Calculated Total	1.3	1.3	1.3	1.3	1.9	2.9	2.9	2.9	3.3	4.4	4.2	3.8	3.8	3.8	3.8	3.6	13.6	
	Worker Trips																		
	Perimeter Vapor Probes																		
	Off-site Truck Trips																		
	Worker Trips																		

Carson Marketplace  
Construction Emissions  
NDx (Unmitigated)

Phase	Equipment/Items	5	6	7	8	9	10	11	12	1	2	3	4
Site Preparation	5-8 CY Front-end Loaders												
	Bulldozer												
	Highway End Dump Trucks												
	Tracked Loader												
	Water Trucks												
	400-lb Cranes												
	400-lb Hydraulic Truck												
	8-CY Front-end Loaders												
	Bulldozer												
	Water Trucks												
Grading	Bulldozer												
	Front-end Loaders												
	Grader												
	Scraper												
	Sheepsfoot Soil Compactor												
	Water Trucks												
	15-20 CY Scrapers												
	30-50-ton Excavator												
	6-8 CY Front End Loaders												
	Hollow Stem Drill Rig												
Remediation Construction	Tractor/Loader/Backhoe												
	Water Trucks												
	Bulldozer												
	Front-end Loaders												
	Grader												
	Scraper												
	Sheepsfoot Soil Compactor												
	Water Trucks												
	15-20 CY Scrapers												
	30-50-ton Excavator												
Utilities/Roads	Hollow Stem Drill Rig												
	Tractor/Loader/Backhoe												
	Water Trucks												
	Bulldozer												
	Front-end Loaders												
	Grader												
	Scraper												
	Sheepsfoot Soil Compactor												
	Water Trucks												
	15-20 CY Scrapers												
Pile Driving	30-50-ton Excavator												
	200-ton Crane												
	Concrete Pump (Truck Mounted)												
	Finish Grader												
	Misc Equipment (Generators, Compressors, Paving Equipment)												
	Tractor/Loader/Backhoe												
	150-ton Pile Driver												
	200-ton Crane												
	30-50-ton Excavator												
	Forklift												
Construction and Tenant Improvements	Misc Equipment (Generators, Compressors, etc.)	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
	200-ton Crane	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6
	Concrete Pump (Truck Mounted)	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	Forklift	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
	Tracked Loader	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
	Misc Equipment (Generators, Compressors, etc.)	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
	Slipper Crane (Truck Mounted)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	Tractor/Loader/Backhoe	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
	Water Truck	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
	Bulldozer	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Site Preparation (11 acre site)	Grader												
	Misc Equipment (Generators, Compressors, Paving Equipment)												
	Tractor/Loader/Backhoe												
	Water Truck												
	24-CY Scraper												
	8-CY Front-end Loader												
	Bulldozer												
	Graders												
	Soil Compactor												
	Water Truck												
Construction (11 acre site)	Water Truck	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
	Concrete Pump (Truck Mounted)	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
	Front-end Loader	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
	Forklift	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6
	Misc Equipment (Generators, Compressors, Paving Equipment)	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
	Tractor/Loader/Backhoe	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
	Water Truck	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
	Hollow Stem Drill Rig												
	Tractor/Loader/Backhoe												
	Water Truck												
Off-site Truck Trips	Off-site Delivery Trucks (Roundtrips)	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
	Off-site Haul Trucks (Roundtrips)	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	Off-site Trash Trucks (Roundtrips)	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
	Worker Trips - Calculated Total	11.0	11.0	11.0	11.0	11.5	11.5	5.8	5.8	4.5	3.1	2.7	2.7

Carson Marketplace  
Construction Emissions  
NOx (Mitigated)

Phase	Equipment/Name	Hours	HP	Load	Trip Length	Year	2007											
							1	2	3	4	5	6	7	8	9	10	11	12
Site Preparation	6-8 CY Front-end Loaders	8	165	0.465	5		15.6	15.6	15.6	15.6	15.6	15.6	15.3	15.3	15.3	15.3	15.3	
	Bulldozer	8	352	0.59	5		55.7	55.7	55.7	55.7	55.7	55.7	53.1	53.1	53.1	53.1	53.1	
	Highway End Dump Trucks	8	165	0.465	5		1.6	1.6	1.6	1.6	1.6	1.6	1.4	1.4	1.4	1.4	1.4	
	Tracked Loader	8	255	0.41	5		14.0	14.0	14.0	14.0	14.0	14.0	13.4	13.4	13.4	13.4	13.4	
	Water Trucks	8	190	0.43	5		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
Deep Dynamic Compaction	250-ton Crane	8	190	0.43	5												16.5	
	40-ton Off Highway Truck	8	417	0.49	5												42.0	
	8 CY Front-end Loaders	8	165	0.465	5												26.3	
	Bulldozer	8	352	0.59	5												0.2	
Grading	Water Trucks	8	352	0.59	5												0.2	
	Bulldozer	8	165	0.465	5												0.2	
	Generator Loaders	8	174	0.575	5												0.2	
	Scrapers	8	313	0.66	5												0.2	
	Sheepfoot Soil Compactor	8	50	0.62	5												0.2	
	Water Trucks	8	313	0.66	5												0.2	
	15-20 CY Scrapers	8	180	0.58	5												43.3	
	30-50-ton Excavator	8	180	0.58	5												20.3	
	6-8 CY Front End Loaders	8	165	0.465	5												7.6	
	Hollow Stem Drill Rig	8	218	0.75	5													31.8
Remediation Construction	Small Road Grader	8	174	0.575	5												10.3	
	Tractor/Loader/Backhoe	8	79	0.465	5												4.7	
	Water Trucks	8	190	0.43	5												0.5	
	200-ton Crane	8	190	0.43	5												0.5	
	Concrete Pump (Truck Mounted)	8	190	0.62	5												42.0	
	Front Grader	8	174	0.575	5												26.3	
	Misc Equipment (Generators, Compressors, Paving Equipment)	8	190	0.62	5												0.2	
	Tractor/Loader/Backhoe	8	79	0.465	5												0.2	
	150-ton Pile Driver	8	190	0.62	5												43.3	
	200-ton Crane	8	190	0.43	5												20.3	
Pile Driving	30-50-ton Excavator	8	180	0.58	5												7.6	
	Forklift	8	84	0.475	5												31.8	
	Misc Equipment (Generators, Compressors, etc.)	8	190	0.62	5												10.3	
	200-ton Crane	8	190	0.43	5												4.7	
	Concrete Pump (Truck Mounted)	8	190	0.62	5												0.5	
	Forklift	8	84	0.475	5												0.5	
	Front-end Loader	8	165	0.465	5												42.0	
	Misc Equipment (Generators, Compressors, etc.)	8	190	0.62	5												26.3	
	Slinger Crane (Truck Mounted)	2	190	0.62	5												0.2	
	Tractor/Loader/Backhoe	8	79	0.465	5												0.2	
Construction and Tenant Improvements	Water Truck	8	352	0.59	5												0.2	
	Bulldozer	8	174	0.575	5												0.2	
	Misc Equipment (Generators, Compressors, Paving Equipment)	8	190	0.62	5												0.2	
	Tractor/Loader/Backhoe	8	79	0.465	5												0.2	
	Water Truck	8	313	0.66	5												0.2	
	24-CY Scraper	8	165	0.465	5												0.2	
	8-CY Front-end Loader	8	352	0.59	5												0.2	
	Bulldozer	8	174	0.575	5												0.2	
	Graders	8	190	0.62	5												0.2	
	Soil Compactor	8	190	0.62	5												0.2	
Site Preparation (11 acre site)	Water Truck	4	190	0.62	5												0.2	
	Concrete Pump (Truck Mounted)	8	190	0.62	5												0.2	
	Flatbed Truck	8	190	0.62	5												0.2	
	Forklift	8	190	0.62	5												0.2	
	Misc Equipment (Generators, Compressors, Paving Equipment)	8	190	0.62	5												0.2	
	Water Truck	8	352	0.59	5												0.2	
	Tractor/Loader/Backhoe	8	79	0.465	5												0.2	
	Hollow Stem Drill Rig	8	218	0.75	5												0.2	
	Tractor/Loader/Backhoe	8	79	0.465	5												0.2	
	Construction (11 acre site)	Off-site Delivery Trucks (Roundtrips)	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.0	2.0	2.0	2.0	2.0
Off-site Haul Trucks (Roundtrips)		1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.0	2.0	2.0	2.0	2.0	
Off-site Trash Trucks (Roundtrips)		1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.0	2.0	2.0	2.0	2.0	
Worker Trips - Calculated Total		0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.3



Carson Marketplace  
Construction Emissions  
NOx (Mitigated)

Phase	Equipment Name	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	
Site Preparation	6-8 CY Front-end Loaders																	
	Highway End Dump Trucks																	
	Tracked Loader																	
Deep Dynamic Compaction	Water Trucks	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5
	30-ton Backhoe	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0
	8-CY Off Highway Truck	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3
	6-CY Front-end Loaders	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6
	Water Trucks	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	Bulldozer	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5
	Front-end Loaders	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9
	Grader	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2
	Scraper	213.6	213.6	213.6	213.6	213.6	213.6	213.6	213.6	213.6	213.6	213.6	213.6	213.6	213.6	213.6	213.6	213.6
	Sheepfoot Soil Compactor	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Remediation Construction	Water Trucks	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	15-20 CY Scrapers	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
	30-50-ton Excavator	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3
	6-8 CY Front End Loaders	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
	Hollow Stem Drill Rig	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
	Small Road Grader	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	Water Trucks	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	Water Trucks	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	300-ton Crane	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
	Concrete Pump (Truck Mounted)	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
Pile Driving	Finish Grader	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
	Misc Equipment (Generators, Compressors, Paving Equipment)	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
	Tractor/Loader/Backhoe	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	150-ton Pile Driver	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
	200-ton Crane	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
	30-50-ton Excavator	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3
	Fortlift	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
	Misc Equipment (Generators, Compressors, etc.)	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1
	200-ton Crane	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
	Concrete Pump (Truck Mounted)	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
Construction and Tenant Improvements	Grader	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
	Misc Equipment (Generators, Compressors, Paving Equipment)	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
	Tractor/Loader/Backhoe	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	Water Truck	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
	24-CY Scraper	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4
	Bulldozer	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3
	Graders	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
	Soil Compactor	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
	Water Truck	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
	Concrete Pump (Truck Mounted)	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
Construction (11 acre site)	Water Truck	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
	Finisher Truck	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7
	Fortlift	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
	Misc Equipment (Generators, Compressors, Paving Equipment)	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
	Tractor/Loader/Backhoe	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
	Water Truck	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9
	Hollow Stem Drill Rig	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	Tractor/Loader/Backhoe	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
	Off-site Delivery Trucks (Roundtrips)	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
	Off-site Haul Trucks (Roundtrips)	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Worker Trips	Off-site Haul Trucks (Roundtrips)	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	Worker Trips - Calculated Total	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9

Carson Marketplace  
Construction Emissions  
NOx (Milligrams)

Phase	Equipment Name	5	6	7	8	9	10	11	12	1	2	3	4
Site Preparation	6-8 CY Front-end Loaders												
	Bulldozer												
	Highway End Dump Trucks												
	Tracked Loader												
Deep Dynamic Compaction	Water Trucks												
	30-ton Crane												
	40-ton Highway Truck												
	6-CY Front-end Loaders												
Grading	Bulldozer												
	Water Trucks												
	Front-end Loaders												
	Grader												
Remediation Construction	Scrapers												
	Sheepfoot Soil Compactor												
	Water Trucks												
	15-20 CY Scrapers												
	30-50-ton Excavator												
	6-8 CY Front End Loaders												
	Hollow Stem Drill Rig												
	Small Road Grader												
	Generator/Backhoe												
	Water Trucks												
Utilities/Roads	200-ton Crane												
	Concrete Pump (Truck Mounted)												
	Finish Grader												
	Misc Equipment (Generators, Compressors, Paving Equipment)												
Pile Driving	Tractor/Loader/Backhoe												
	150-ton Pile Driver												
	200-ton Crane												
	30-50-ton Excavator												
	Forklift												
	Misc Equipment (Generators, Compressors, etc.)												
	200-ton Crane	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	Concrete Pump (Truck Mounted)	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2
	Front-end Loader	7.3	4.3	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	4.3
	Misc Equipment (Generators, Compressors, etc.)	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6
Single Crane (Truck Mounted)	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	
Tractor/Loader/Backhoe	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.0	
Water Truck	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	
Site Preparation (11 acre site)	Bulldozer												
	Grader												
	Misc Equipment (Generators, Compressors, Paving Equipment)												
	Tractor/Loader/Backhoe												
Grading (11 acre site)	Water Truck												
	24-CY Scraper												
	8-CY Front-end Loader												
	Bulldozer												
Construction (11 acre site)	Graders												
	Roll Compactor												
	Concrete Pump (Truck Mounted)	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
	Flatbed Truck	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
	Forklift	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2
	Misc Equipment (Generators, Compressors, Paving Equipment)	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6
	Tractor/Loader/Backhoe	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
	Water Truck	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
	Hollow Stem Drill Rig												
	Tractor/Loader/Backhoe	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.1
Off-site Truck Trips	Offsite Delivery Trucks (Roundtrips)	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.5	1.5
	Offsite Haul Trucks (Roundtrips)	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8
	Offsite Trash Trucks (Roundtrips)	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8
	Worker Trips - Calculated Total	11.0	11.0	11.0	11.0	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
Worker Trips													

Carson Marketplace  
Construction Emissions  
PM10 (Unmitigated)

Phase	Equipment/Item	Hour	Trip Length (Miles)	Year	2007															
					1	2	3	4	5	6	7	8	9	10	11	12				
Site Preparation	Motor Graders	8	0.1	2007	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Bulldozers	8	0.5	2007	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	Tracked Loader	8	0.0	2007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Deep Dynamic Compaction	Water Trucks	8	295	0.41	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	25-ton Crane	8	169	0.43	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	6-CY Front-End Loader	8	417	0.43	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Bulldozer	8	165	0.465	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Water Truck	8	352	0.59	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Grading	Bulldozer	8	352	0.59	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Front-End Loader	8	174	0.575	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Scrapers	8	313	0.66	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Remediation Construction	Sheepsfoot Soil Compactor	8	50	0.62	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Water Trucks	8	352	0.62	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	15-20 CY Scrapers	8	308	0.64	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	6-CY Front-End Loader	8	165	0.465	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Hollow Stem Drill Rig	8	218	0.75	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Small Road Grader	8	174	0.575	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Tractor/Loader/Backhoe	8	79	0.465	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	20-ton Crane	8	190	0.43	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Concrete Pump (Truck Mounted)	8	190	0.62	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Finish Grader	8	174	0.575	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Pile Driving	Misc. Equipment (Generators, Compressors, Paving Equipment)	8	190	0.29	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Misc. Equipment (Generators, Compressors, Paving Equipment)	8	190	0.12	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	15-ton Pile Driver	8	190	0.43	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	30-50-ton Excavator	8	160	0.58	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Formitt	8	84	0.475	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Misc. Equipment (Generators, Compressors, etc.)	2	190	0.43	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Concrete Pump (Truck Mounted)	8	84	0.475	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Front-End Loader	8	165	0.465	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Misc. Equipment (Generators, Compressors, etc.)	2	190	0.62	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Tractor/Loader/Backhoe	8	79	0.465	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Site Preparation (11 acre site)	Water Truck	8	352	0.59	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Bulldozer	8	174	0.575	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Tractor/Loader/Backhoe	8	79	0.465	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Misc. Equipment (Generators, Compressors, Paving Equipment)	8	313	0.66	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Water Truck	8	79	0.465	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	24-CY Scraper	8	313	0.66	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	6-CY Front-End Loader	8	165	0.465	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Bulldozer	8	174	0.575	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Soil Compactor	8	190	0.62	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Construction (11 acre site)	Water Truck	4	190	0.62	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Concrete Pump (Truck Mounted)		8	190	0.62	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Paired Truck		8	190	0.62	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Misc. Equipment (Generators, Compressors, Paving Equipment)		8	190	0.62	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Tractor/Loader/Backhoe		8	79	0.465	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Water Truck		8	79	0.465	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Hollow Stem Drill Rig		8	218	0.75	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Tractor/Loader/Backhoe		8	79	0.465	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Off-site Truck Trips		8	190	0.62	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Worker Trips		Off-site Truck Trips (Roundtrip)	8	190	0.62	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Off-site Truck Trips (Roundtrip)	8	190	0.62	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Worker Trips - Calculated Total	8	190	0.62	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Fugitive Dust (aces per day) - Max	8	190	0.62	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Fugitive Dust	Fugitive Dust (aces per day) - Normal	8	190	0.62	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Fugitive Dust (aces per day) - Normal	8	190	0.62	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Fugitive Dust (aces per day) - Normal	8	190	0.62	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Fugitive Dust (aces per day) - Normal	8	190	0.62	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Canon Marketplace  
Construction Emissions  
PM10 (Unmitigated)

Month	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	
Site Preparation	Equipment/Machine																									
	3-CY Front-End Loaders																									
	Bulldozer																									
	Highway End Dump Trucks																									
	Tracked Loader																									
	Water Trucks																									
	40-ton Off Highway Truck																									
	8-CY Front-End Loaders																									
	Bulldozer																									
	Water Trucks																									
	Bulldozer																									
	Front-End Loaders																									
	Graders																									
	Scrapers																									
	Sheepsfoot Soil Compactor																									
Remediation Construction	Water Trucks																									
	8-CY Front-End Loaders																									
	30-50-ton Excavator																									
	Hollow Stem Drill Rig																									
	Small Road Grader																									
	Water Trucks																									
	Front-End Loaders																									
	Wheel Trucks																									
	200-ton Crane																									
	Concrete Pump (Truck Mounted)																									
	Finish Grader																									
	Misc. Equipment (Generator, Compressor, Paving Equipment)																									
	Misc. Equipment (Backhoe)																									
	15-ton Pick Over																									
	Pile Driving	20-ton Crane																								
30-50-ton Excavator																										
Front-End Loader																										
Misc. Equipment (Generator, Compressor, etc.)																										
Misc. Equipment (Backhoe)																										
Concrete Pump (Truck Mounted)																										
Formitt																										
Front-End Loader																										
Misc. Equipment (Generator, Compressor, etc.)																										
Misc. Equipment (Backhoe)																										
Wheel Truck																										
Construction and Remed Improvements		Bulldozer																								
		Grader																								
		Front-End Loader																								
		Misc. Equipment (Generator, Compressor, Paving Equipment)																								
	Tractor/Loader/Backhoe																									
	Wheel Truck																									
	24-CY Scraper																									
	3-CY Front-End Loader																									
	Graders																									
	Soil Compactor																									
	Wheel Truck																									
	Concrete Pump (Truck Mounted)																									
	Front-End Loader																									
	Misc. Equipment (Generator, Compressor, Paving Equipment)																									
	Tractor/Loader/Backhoe																									
Water Truck																										
Hollow Stem Drill Rig																										
Office (Heavy Trucks (Roundtrip))																										
Office (Light Trucks (Roundtrip))																										
Office (Heavy Trucks (Roundtrip))																										
Office (Light Trucks (Roundtrip))																										
Water Trucks - Calculated Total																										
Fugitive Dust (per 497 - Max)																										
Fugitive Dust (per 497 - Normal)																										
Fugitive Dust (per 497 - Normal)																										
Fugitive Dust (per 497 - Normal)																										

Phase	Equipment/Name	2010	2010	2010	2010
Site Preparation	8-CY Front-end Loaders				4
	Highway End Dump Trucks				
	Tracked Loader				
	Wheel Trucks				
Deep Dynamic Compaction	25-ton Crane				
	25-ton Vibratory Truck				
	8-CY Front-end Loaders				
	Bulldozer				
Grading	Wheel Trucks				
	Front-end Loaders				
	Scrapers				
	Sheepsfoot Soil Compactor				
Remediation Construction	Wheel Trucks				
	15-20 CY Scrapers				
	8-CY Front-end Loaders				
	8-CY Front-end Loaders				
	Hollow Stem Drill Rig				
	Small Road Grader				
	Tractor/Loader/Backhoe				
	Wheel Trucks				
	Concrete Pump (Truck Mounted)				
	Finish Grader				
Pile Driving	Misc Equipment (Generator, Compressor, Paving Equipment)				
	Tractor/Loader/Backhoe				
	200-ton Crane				
	30-50-ton Excavator				
	Front-End Loader				
	Misc Equipment (Generator, Compressor, etc.)				
	Concrete Pump (Truck Mounted)				
	Front-End Loader				
	Misc Equipment (Generator, Compressor, etc.)				
	Wheel Truck				
Construction and Tenant Improvements	Concrete Pump (Truck Mounted)				
	Front-End Loader				
	Misc Equipment (Generator, Compressor, etc.)				
	Small (Jack) Backhoe				
	Wheel Truck				
	Bulldozer				
	Grader				
	Misc Equipment (Generator, Compressor, Paving Equipment)				
	Tractor/Loader/Backhoe				
	Wheel Truck				
Grading (11 acre site)	24-CY Scraper				
	8-CY Front-end Loader				
	Bulldozer				
	Scrapers				
	Soil Compactor				
	Wheel Truck				
	Concrete Pump (Truck Mounted)				
	Flaked Truck				
	Wheel Truck				
	Construction (11 acre site)	Misc Equipment (Generator, Compressor, Paving Equipment)			
Tractor/Loader/Backhoe					
Wheel Truck					
Hollow Stem Drill Rig					
Tractor/Loader/Backhoe					
Wheel Truck (Roundtop)					
Other Wash Trucks (Roundtop)					
Other Wash Trucks (Roundtop)					
Worker Tips - Calculated Only					
Engine Dust (acres per day) - Max					
Engine Dust (acres per day) - Normal					
Engine Dust (1992 per acre) - Normal					

Carbon Maintenance  
Construction Emissions  
PM10 (Alligated)

Year	2005	2006	2007	2008	2009	2010	2011	2012
Site Preparation	8	185	1,745	1,745	1,745	1,745	1,745	1,745
	8	352	0.59	0.59	0.59	0.59	0.59	0.59
	8	295	0.41	0.41	0.41	0.41	0.41	0.41
	8	180	0.43	0.43	0.43	0.43	0.43	0.43
	8	417	0.48	0.48	0.48	0.48	0.48	0.48
	8	165	0.465	0.465	0.465	0.465	0.465	0.465
	8	352	0.59	0.59	0.59	0.59	0.59	0.59
	8	162	0.485	0.485	0.485	0.485	0.485	0.485
	8	174	0.575	0.575	0.575	0.575	0.575	0.575
	8	50	0.62	0.62	0.62	0.62	0.62	0.62
Remediation Construction	8	313	0.66	0.66	0.66	0.66	0.66	0.66
	8	313	0.66	0.66	0.66	0.66	0.66	0.66
	8	313	0.66	0.66	0.66	0.66	0.66	0.66
	8	140	0.58	0.58	0.58	0.58	0.58	0.58
	8	165	0.465	0.465	0.465	0.465	0.465	0.465
	8	218	0.75	0.75	0.75	0.75	0.75	0.75
	8	174	0.575	0.575	0.575	0.575	0.575	0.575
	8	74	0.485	0.485	0.485	0.485	0.485	0.485
	8	190	0.43	0.43	0.43	0.43	0.43	0.43
	8	190	0.62	0.62	0.62	0.62	0.62	0.62
Pile Driving	8	190	0.43	0.43	0.43	0.43	0.43	0.43
	8	190	0.58	0.58	0.58	0.58	0.58	0.58
	8	190	0.62	0.62	0.62	0.62	0.62	0.62
	8	190	0.62	0.62	0.62	0.62	0.62	0.62
	8	190	0.62	0.62	0.62	0.62	0.62	0.62
	8	94	0.475	0.475	0.475	0.475	0.475	0.475
	8	165	0.465	0.465	0.465	0.465	0.465	0.465
	8	190	0.62	0.62	0.62	0.62	0.62	0.62
	8	79	0.465	0.465	0.465	0.465	0.465	0.465
	8	352	0.59	0.59	0.59	0.59	0.59	0.59
Construction and Remant Improvements	8	190	0.62	0.62	0.62	0.62	0.62	0.62
	8	190	0.62	0.62	0.62	0.62	0.62	0.62
	8	190	0.62	0.62	0.62	0.62	0.62	0.62
	8	190	0.62	0.62	0.62	0.62	0.62	0.62
	8	190	0.62	0.62	0.62	0.62	0.62	0.62
	8	94	0.475	0.475	0.475	0.475	0.475	0.475
	8	165	0.465	0.465	0.465	0.465	0.465	0.465
	8	190	0.62	0.62	0.62	0.62	0.62	0.62
	8	79	0.465	0.465	0.465	0.465	0.465	0.465
	8	352	0.59	0.59	0.59	0.59	0.59	0.59
Site Preparation (11 acre site)	8	190	0.62	0.62	0.62	0.62	0.62	0.62
	8	190	0.62	0.62	0.62	0.62	0.62	0.62
	8	190	0.62	0.62	0.62	0.62	0.62	0.62
	8	190	0.62	0.62	0.62	0.62	0.62	0.62
	8	190	0.62	0.62	0.62	0.62	0.62	0.62
	8	94	0.475	0.475	0.475	0.475	0.475	0.475
	8	165	0.465	0.465	0.465	0.465	0.465	0.465
	8	190	0.62	0.62	0.62	0.62	0.62	0.62
	8	79	0.465	0.465	0.465	0.465	0.465	0.465
	8	352	0.59	0.59	0.59	0.59	0.59	0.59
Grading (11 acre site)	8	190	0.62	0.62	0.62	0.62	0.62	0.62
	8	190	0.62	0.62	0.62	0.62	0.62	0.62
	8	190	0.62	0.62	0.62	0.62	0.62	0.62
	8	190	0.62	0.62	0.62	0.62	0.62	0.62
	8	190	0.62	0.62	0.62	0.62	0.62	0.62
	8	94	0.475	0.475	0.475	0.475	0.475	0.475
	8	165	0.465	0.465	0.465	0.465	0.465	0.465
	8	190	0.62	0.62	0.62	0.62	0.62	0.62
	8	79	0.465	0.465	0.465	0.465	0.465	0.465
	8	352	0.59	0.59	0.59	0.59	0.59	0.59
Construction (11 acre site)	8	190	0.62	0.62	0.62	0.62	0.62	0.62
	8	190	0.62	0.62	0.62	0.62	0.62	0.62
	8	190	0.62	0.62	0.62	0.62	0.62	0.62
	8	190	0.62	0.62	0.62	0.62	0.62	0.62
	8	190	0.62	0.62	0.62	0.62	0.62	0.62
	8	94	0.475	0.475	0.475	0.475	0.475	0.475
	8	165	0.465	0.465	0.465	0.465	0.465	0.465
	8	190	0.62	0.62	0.62	0.62	0.62	0.62
	8	79	0.465	0.465	0.465	0.465	0.465	0.465
	8	352	0.59	0.59	0.59	0.59	0.59	0.59
Pile Drive	8	190	0.62	0.62	0.62	0.62	0.62	0.62
	8	190	0.62	0.62	0.62	0.62	0.62	0.62
	8	190	0.62	0.62	0.62	0.62	0.62	0.62
	8	190	0.62	0.62	0.62	0.62	0.62	0.62
	8	190	0.62	0.62	0.62	0.62	0.62	0.62
	8	94	0.475	0.475	0.475	0.475	0.475	0.475
	8	165	0.465	0.465	0.465	0.465	0.465	0.465
	8	190	0.62	0.62	0.62	0.62	0.62	0.62
	8	79	0.465	0.465	0.465	0.465	0.465	0.465
	8	352	0.59	0.59	0.59	0.59	0.59	0.59
Water Truck Trips	8	190	0.62	0.62	0.62	0.62	0.62	0.62
	8	190	0.62	0.62	0.62	0.62	0.62	0.62
	8	190	0.62	0.62	0.62	0.62	0.62	0.62
	8	190	0.62	0.62	0.62	0.62	0.62	0.62
	8	190	0.62	0.62	0.62	0.62	0.62	0.62
	8	94	0.475	0.475	0.475	0.475	0.475	0.475
	8	165	0.465	0.465	0.465	0.465	0.465	0.465
	8	190	0.62	0.62	0.62	0.62	0.62	0.62
	8	79	0.465	0.465	0.465	0.465	0.465	0.465
	8	352	0.59	0.59	0.59	0.59	0.59	0.59
Fugitive Dust	8	190	0.62	0.62	0.62	0.62	0.62	0.62
	8	190	0.62	0.62	0.62	0.62	0.62	0.62
	8	190	0.62	0.62	0.62	0.62	0.62	0.62
	8	190	0.62	0.62	0.62	0.62	0.62	0.62
	8	190	0.62	0.62	0.62	0.62	0.62	0.62
	8	94	0.475	0.475	0.475	0.475	0.475	0.475
	8	165	0.465	0.465	0.465	0.465	0.465	0.465
	8	190	0.62	0.62	0.62	0.62	0.62	0.62
	8	79	0.465	0.465	0.465	0.465	0.465	0.465
	8	352	0.59	0.59	0.59	0.59	0.59	0.59



Phase	Equipment/Activity	2010	2010	4
Site Preparation	8-4 CY Front-end Loaders		2	3
	Bulldozer			
	Highway End Dump Trucks			
	Tracked Loader			
Deep Dynamic Compaction	350-ton Trucks			
	45-ton Off Highway Truck			
	8-4 CY Front-end Loaders			
	Bulldozer			
	Water Trucks			
	Grading			
	Front-end Loaders			
	Grader			
	Scraper			
	Sheepsfoot Soil Compactor			
Remediation Construction	350-ton Trucks			
	35-50-ton Excavator			
	8-4 CY Front-end Loaders			
	Small Road Grader			
	Water Trucks			
	200-ton Crane			
	Concrete Pump (Truck Mounted)			
	Finish Grader			
	Misc. Equipment (Generators, Compressors, Paving Equipment)			
	Tractor/Loader/Backhoe			
Pile Driving	150-ton Pile Driver			
	200-ton Crane			
	90-50-ton Excavator			
	Misc. Equipment (Generators, Compressors, etc.)			
	Concrete Pump (Truck Mounted)		0.0	0.0
	Filler		0.0	0.0
	Front-end Loader		0.0	0.0
	Misc. Equipment (Generators, Compressors, etc.)		0.1	0.1
	Tractor/Loader/Backhoe		0.0	0.0
	Water Truck		0.0	0.0
Construction and Remnant Improvements	Bulldozer			
	Misc. Equipment (Generators, Compressors, Paving Equipment)			
	Tractor/Loader/Backhoe			
	Water Truck			
	24-CY Scraper			
	Backhoe			
	Grader			
	Soil Compactor			
	Water Truck			
	Filler			
Grading (11 acre site)	Misc. Equipment (Generators, Compressors, Paving Equipment)			
	Tractor/Loader/Backhoe			
	Water Truck			
	24-CY Scraper			
	Backhoe			
	Grader			
	Soil Compactor			
	Water Truck			
	Filler			
	Construction (11 acre site)	Misc. Equipment (Generators, Compressors, Paving Equipment)		
Tractor/Loader/Backhoe				
Water Truck				
24-CY Scraper				
Backhoe				
Grader				
Soil Compactor				
Water Truck				
Filler				
Perimeter Vapor Probes		Misc. Equipment (Generators, Compressors, Paving Equipment)		
	Tractor/Loader/Backhoe			
	Water Truck			
	24-CY Scraper			
	Backhoe			
	Grader			
	Soil Compactor			
	Water Truck			
	Filler			
	Off-site Truck Trips	Off-site Delivery Trucks (Roundtrips)		0.0
Off-site Haul Trucks (Roundtrips)			0.0	0.0
Off-site Trash Trucks (Roundtrips)			0.0	0.0
Worker Trips - Calculated Total			0.2	0.2
Off-site Haul Trucks (One-way)			0.0	0.0
Off-site Delivery Trucks (One-way)			0.0	0.0
Off-site Trash Trucks (One-way)			0.0	0.0
Off-site Haul Trucks (Normal)			0.0	0.0
Off-site Delivery Trucks (Normal)			0.0	0.0
Off-site Trash Trucks (Normal)			0.0	0.0



Carbon Marketplace  
Construction Emissions  
RGG (Unmitigated)

Phase	Equipment/Activity	Hours	Tip Length	Year	2007															
					1	2	3	4	5	6	7	8	9	10	11	12				
Site Preparation	Concrete Loaders	8	352	0.59																
	Bulldozer	8	352	0.59																
	Highway End Dump Trucks	8	352	0.59																
	Tracked Loader	8	352	0.59																
Deep Dynamic Compaction	Water Trucks	8	265	0.41																
	400-ton Crane	8	352	0.59																
	Bulldozer	8	352	0.59																
	Bulldozer	8	352	0.59																
Grading	Grader	8	174	0.275																
	Scrapers	8	313	0.66																
	Sheepsfoot Soil Compactor	8	313	0.66																
	Water Trucks	8	313	0.66																
Remediation Construction	30-50-ton Excavator	8	100	0.58																
	8-4 CY Front End Loader	8	165	0.465																
	Hollow Stem Drill Rig	8	218	0.75																
	Small Road Grader	8	174	0.275																
Utilities/Roads	Water Trucks	8	79	0.465																
	Concrete Pump (Truck Mounted)	8	190	0.43																
	Finish Grader	8	174	0.275																
	Misc Equipment (Generators, Compressors, Paving Equipment)	8	190	0.43																
Pile Driving	50-ton Pile Driver	8	190	0.32																
	200-ton Crane	8	190	0.43																
	30-50-ton Excavator	8	190	0.58																
	Front-End Loader	8	94	0.275																
Construction and Tenant Improvements	Front-End Loader	8	94	0.275																
	Water Trucks	8	165	0.465																
	Small Road Grader	8	174	0.275																
	Tractor/Loader/Backhoe	8	79	0.465																
Site Preparation (11 acre site)	Water Truck	8	79	0.465																
	Bulldozer	8	352	0.59																
	Misc Equipment (Generators, Compressors, Paving Equipment)	8	174	0.275																
	Tractor/Loader/Backhoe	8	79	0.465																
Grading (11 acre site)	Water Truck	8	79	0.465																
	24-CY Scraper	8	313	0.66																
	8-2Y Front-End Loader	8	165	0.465																
	Grader	8	174	0.275																
Construction (11 acre site)	Soil Compactor	8	190	0.62																
	Water Truck	8	190	0.62																
	Concrete Pump (Truck Mounted)	4	190	0.62																
	Paved Truck	8	190	0.62																
Perimeter Vapor Probes	Misc Equipment (Generators, Compressors, Paving Equipment)	8	190	0.62																
	Tractor/Loader/Backhoe	8	190	0.62																
	Water Truck	8	79	0.465																
	Hollow Stem Drill Rig	8	218	0.75																
Office Truck Tips	Office Dump Trucks (Roundtrips)	8	79	0.465	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Office Haul Trucks (Roundtrips)	8	79	0.465	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Worker Tips	Worker Tips - Calculated Total	8	79	0.465	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
	Architectural Coatings - Commercial Square Footage per month	8	79	0.465	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Architectural Coatings	Architectural Coatings - Residential Square Footage per month	8	79	0.465	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
	Asphalt (tons per month)	8	79	0.465	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8



Phase	Equipment/Item	2010	3	4
Site Preparation	8-CY Front-end Loaders			
	Highway End Dump Trucks			
	Tracked Loader			
	Water Trucks			
Deep Dynamic Compaction	250-ton Crane			
	8-CY Off-Highway Truck			
	8-CY Front-End Loaders			
	Bulldozer			
Grading	Water Trucks			
	Front-end Loaders			
Remediation Construction	Scrapers			
	Sheepsfoot Soil Compactor			
	Water Trucks			
	15-20 CY Scrapers			
	8-CY Front-End Loaders			
	8-CY Front-End Loaders			
	Hollow Stem Drill Rig			
	Small Road Grader			
	Tractor/Loader/Backhoe			
	Water Trucks			
Utilities/Roads	Concrete Pump (Truck Mounted)			
	Finish Grader			
Pile Driving	Misc. Equipment (Generators, Compressors, Paving Equipment)			
	Tractor/Loader/Backhoe			
	Motor Grader			
	200-ton Crane			
	30-35-ton Excavator			
	Fillfill			
	Misc. Equipment (Generators, Compressors, etc.)			
	Concrete Pump (Truck Mounted)			
	Front-end Loader			
	Misc. Equipment (Generators, Compressors, etc.)			
Construction and Tenant Improvements	Tractor/Loader/Backhoe			
	Front-end Loader			
	Misc. Equipment (Generators, Compressors, etc.)			
	Tractor/Loader/Backhoe			
	Water Truck			
	Bulldozer			
	Grader			
	Misc. Equipment (Generators, Compressors, Paving Equipment)			
	Tractor/Loader/Backhoe			
	Water Truck			
Grading (11 acre site)	24-CY Scraper			
	8-CY Front-end Loader			
	Bulldozer			
	Soil Compactor			
Construction (11 acre site)	Water Truck			
	Concrete Pump (Truck Mounted)			
	Finished Truck			
	Misc. Equipment (Generators, Compressors, Paving Equipment)			
Perimeter Vapor Probes	Tractor/Loader/Backhoe			
	Water Truck			
	Hollow Stem Drill Rig			
	Tractor/Loader/Backhoe			
Off-Road Truck Trips	Off-Road Trucks (Roundtrips)	0.1	0.1	0.1
	Off-Road Trucks (Roundtrips)	0.1	0.1	0.1
Worker Trips	Off-Road Trucks (Roundtrips)	0.1	0.1	0.1
	Worker Trips - Calculated Total	2.8	2.8	2.8
Architectural Coatings	Architectural Coatings - Commercial Square Footage per month	391.9	308.4	338.4
	Architectural Coatings - Residential Square Footage per month			
Asphalt	Asphalt (Tons per month)			

Carson Marketplace  
Construction Emissions  
ROG (Megatons)

Phase	Equipment/Name	Hours	HP	Load	Tip Length	Year																	
						1	2	3	4	5	6	7	8	9	10	11	12						
Site Preparation	8-CY Front-end Loader	8	352	0.46	5	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	
	Highway End Dump Trucks	8	255	0.41	5	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	
	Water Trucks	8	199	0.33	5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
	250-ton Crane	8	415	0.65																			
	8-CY Front-end Loader	8	165	0.465																			
Deep Dynamic Compaction	Builder	8	352	0.59	5																		
	Front-end Loader	8	192	0.31																			
	Scrapers	8	313	0.66																			
	Sheepsfoot Soil Compactor	8	50	0.62	5																		
	Water Trucks	8	199	0.33	5																		
Remediation Construction	15-20 CY Scrapers	8	313	0.66	5																		
	8-CY Front-end Loader	8	165	0.465																			
	Hollow Stem Drill Rig	8	218	0.75																			
	Small Road Grader	8	174	0.575																			
	Tractor/Loader/Backhoe	8	79	0.465	5																		
Utilities/Roads	200-ton Crane	8	190	0.43																			
	Concrete Pump (Truck Mounted)	8	190	0.62																			
	Finish Grader	8	174	0.575																			
	Misc Equipment (Generators/Compactors/Paving Equipment)	8	190	0.62																			
	200-ton Crane	8	190	0.43																			
Pile Driving	200-ton Crane	8	190	0.43																			
	50-50-ton Excavator	8	190	0.56																			
	Forklift	8	94	0.475																			
	Misc Equipment (Generators/Compactors etc.)	8	190	0.62																			
	Concrete Pump (Truck Mounted)	8	190	0.62																			
Construction and Tenant Improvements	Front-end Loader	8	94	0.475																			
	Misc Equipment (Generators/Compactors etc.)	8	190	0.62																			
	Misc Equipment (Generators/Compactors etc.)	8	190	0.62																			
	Tractor/Loader/Backhoe	8	79	0.465																			
	Water Truck	8	199	0.33	5																		
Site Preparation (11 acre site)	Builder	8	352	0.59	5																		
	Grader	8	174	0.575																			
	Misc Equipment (Generators/Compactors/Paving Equipment)	8	190	0.62																			
	Tractor/Loader/Backhoe	8	79	0.465																			
	Water Truck	8	199	0.33	5																		
Grading (11 acre site)	24-CY Stamp	8	313	0.66																			
	8-CY Front-end Loader	8	165	0.465																			
	Builder	8	352	0.59																			
	Tractor/Loader/Backhoe	8	79	0.465																			
	Soil Compactor	8	190	0.62																			
Construction (11 acre site)	Water Truck	8	199	0.33	5																		
	Concrete Pump (Truck Mounted)	4	190	0.62																			
	Flailbed Truck	8	190	0.62	20																		
	Misc Equipment (Generators/Compactors/Paving Equipment)	8	190	0.62																			
	Tractor/Loader/Backhoe	8	79	0.465																			
Perimeter Vapor Probes	Water Truck	8	199	0.33	5																		
	Hollow Stem Drill Rig	8	218	0.75																			
	Tractor/Loader/Backhoe	8	79	0.465																			
	Off-site Truck's Trips				20																		
	Off-site Truck's Trips				20																		
Water Trips	Off-site Truck's Trips (Roundtrips)				20																		
	Off-site Truck's Trips (Roundtrips)				20																		
Architectural Coatings	Water Trips - Calculated total				20																		
	Architectural Coatings - Commercial Square Footage per month				20																		
Asphalt	Architectural Coatings - Residential Square Footage per month				20																		
	Asphalt (Tons per Month)				20																		

Casam Marketplace  
Construction Emissions  
AQG (Mitigated)

Emissions Activity	2006														
	1	2	3	4	5	6	7	8	9	10	11	12			
Site Preparation	Emissions Activity														
	Bulldozer														
	8-10 CY Front-end Loaders														
	Highway End Dump Trucks														
Deep Dynamic Compaction	Tracked Loader														
	Water Trucks														
	8-10 CY Front-end Loaders														
	Bulldozer														
	Water Trucks														
	Bulldozer														
	Grading														
	8-10 CY Front-end Loaders														
	Graders														
	Scrapers														
Remediation Construction	Sheepshead Soil Compactor														
	Water Trucks														
	Bulldozers														
	8-10 CY Front-end Loaders														
	8-10 CY Front-end Loaders														
	8-10 CY Front-end Loaders														
	Small Road Grader														
	Small Road Grader														
	Water Trucks														
	Water Trucks														
	20-ton Crane														
	Utilities/Roads	Concrete Pump (Truck Mounted)													
Finish Grader															
Motor Grader															
Water Trucks															
Water Trucks															
Water Trucks															
Water Trucks															
Water Trucks															
Water Trucks															
Water Trucks															
Water Trucks															
Water Trucks															
Water Trucks															
Water Trucks															
Water Trucks															
Pre Drilling		8-10 CY Front-end Loaders													
		Front-end Loader													
		Front-end Loader													
	Front-end Loader														
	Front-end Loader														
	Front-end Loader														
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	Front-end Loader														
	Front-end Loader														
	Front-end Loader														
	Front-end Loader														
	Front-end Loader														
	Construction and Tenant Improvements	Concrete Pump (Truck Mounted)													
Front-end Loader															
Front-end Loader															
Front-end Loader															
Front-end Loader															
Front-end Loader															
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Front-end Loader															
Front-end Loader															
Front-end Loader															
Front-end Loader															
Site Preparation (11 acre site)		Bulldozer													
	Misc Equipment (Generator/Compressor/Paving Equipment)														
	Tractor/Loader/Bulldozer														
	Water Truck														
	Water Truck														
	Water Truck														
	Water Truck														
	Water Truck														
	Water Truck														
	Water Truck														
	Water Truck														
	Water Truck														
	Water Truck														
	Water Truck														
	Grading (11 acre site)	Concrete Pump (Truck Mounted)													
Front-end Loader															
Front-end Loader															
Front-end Loader															
Front-end Loader															
Front-end Loader															
Front-end Loader															
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Front-end Loader															
Front-end Loader															
Front-end Loader															
Front-end Loader															
Construction (14 acre site)		Concrete Pump (Truck Mounted)													
	Front-end Loader														
	Front-end Loader														
	Front-end Loader														
	Front-end Loader														
	Front-end Loader														
	Front-end Loader														
	Front-end Loader														
	Front-end Loader														
	Front-end Loader														
	Front-end Loader														
	Front-end Loader														
	Front-end Loader														
	Front-end Loader														
	Perimeter Vapor Probes	Water Trucks													
Water Trucks															
Water Trucks															
Water Trucks															
Water Trucks															
Water Trucks															
Water Trucks															
Water Trucks															
Water Trucks															
Water Trucks															
Water Trucks															
Water Trucks															
Water Trucks															
Water Trucks															
Office Truck Tires		Office Dump Trucks (Roundtires)													
	Office Trailers (Roundtires)														
	Office Trailers (Roundtires)														
	Water Trucks - Calculated Total														
	Architectural Coatings - Commercial Square Footage per month														
	Architectural Coatings - Residential Square Footage per month														
	Asphalt (acre per month)														
	Asphalt (acre per month)														
	Asphalt (acre per month)														
	Asphalt (acre per month)														

Phase	Equipment/Name	2019	2019
Site Preparation	Front-end Loaders	2	3
	Bulldozer		
	Highway End Dump Trucks		
	Tracked Loader		
Deep Dynamic Compaction	Water Trucks		
	20-ton Crane		
	20-ton Highway Truck		
	8-CY Front-End Loaders		
	Bulldozer		
	Water Trucks		
	Bulldozer		
	Grading Loaders		
	Scrapers		
	Sheepsfoot Soil Compactor		
Remediation Construction	Water Trucks		
	24-CY Scrapers		
	30-50-ton Excavator		
	8-4 CY Front-End Loaders		
	Hollow Stem Drill Rig		
	Small Road Grader		
	Water Trucks		
	Water Trucks		
	200-ton Crane		
	Concrete Pump (Truck Mounted)		
Utilities/Roads	Finish Grader		
	Misc. Equipment (Generators, Compressors, Paving Equipment)		
	Water Trucks		
	160-ton Pile Driver		
	200-ton Crane		
	30-50-ton Excavator		
	Front-End Loader		
	Concrete Pump (Truck Mounted)		
	Front-End Loader		
	Misc. Equipment (Generators, Compressors etc.)		
Construction and Tenant Improvements	Front-End Loader	0.3	
	Concrete Pump (Truck Mounted)	2.0	
	Front-End Loader	0.7	0.7
	Misc. Equipment (Generators, Compressors etc.)	1.3	
	Tractor/Loader/Backhoe	2.0	2.0
	Water Truck	0.8	0.8
	Water Truck	0.1	0.1
	Bulldozer		
	Grader		
	Tractor/Loader/Backhoe		
Site Preparation (11 acre site)	Water Truck		
	Tractor/Loader/Backhoe		
	Water Truck		
	24-CY Scraper		
	8-CY Front-End Loader		
	Bulldozer		
	Grader		
	Soil Compactor		
	Water Truck		
	Concrete Pump (Truck Mounted)		
Grading (11 acre site)	Graded Truck		
	Misc. Equipment (Generators, Compressors, Paving Equipment)		
	Water Truck		
	Tractor/Loader/Backhoe		
	Hollow Stem Drill Rig		
	Tractor/Loader/Backhoe		
	Off-site Truck Trips	0.1	0.1
	Off-site Truck Trips (Roundtrips)	0.1	0.1
	Off-site Truck Trips (Roundtrips)	0.1	0.1
	Off-site Truck Trips (Roundtrips)	2.8	2.8
Perimeter Vapor Probes	Worker Trips - Calculated Total	391.9	336.4
	Architectural Coatings - Commercial Square Footage per month		
	Architectural Coatings - Residential Square Footage per month		
	Architectural Coatings - Residential Square Footage per month		
	Architectural Coatings - Residential Square Footage per month		
	Architectural Coatings - Residential Square Footage per month		
	Architectural Coatings - Residential Square Footage per month		
	Architectural Coatings - Residential Square Footage per month		
	Architectural Coatings - Residential Square Footage per month		
	Architectural Coatings - Residential Square Footage per month		

**Scenario 1 - Worst Case PM10 (Cells A1, A3, A5)**

**Scenario Description**

Site Grading and Construction within Cells A1, A3, A5 using maximum onsite PM10, CO and NOx emissions occurring anytime during September 2008

**Fugitive PM10 Calculation**

Cell	Entire Site Area (m <sup>2</sup> )
Total	286030.1

Parameter	Entire Site
PM10 (lbs/day)	1372.8
PM10 (g/day)	623251.2
hours per day	10
seconds per day	36000
PM10 (g/sec)	17.31
PM10 (g/sec*m2)	6.0527E-05

**Exhaust PM10 Calculation**

Parameter	Entire Site (Peak)	Entire Site (Average)
PM10 (lbs/day)	7.69	2.91
PM10 (g/day)	3491.26	1321.14
hours per day	10	10
seconds per day	36000	36000
PM10 (g/sec)	0.0970	0.0367
# of Sources (A3, A5, A1)	1	1
PM10 (g/sec*source)	0.0969794	0.0366983

**Scenario 1 - Worst Case PM10 (Cells A1, A3, A5)**

**Scenario Description**

Site Grading and Construction within Cells A1, A3, A5 using maximum onsite PM10, CO and NOx emissions occurring anytime during September 2008

**Fugitive PM10 Calculation**

Cell	Entire Site Area (m <sup>2</sup> )
Total	286030.1

Parameter	Entire Site
PM10 (lbs/day)	933.5
PM10 (g/day)	423809
hours per day	10
seconds per day	36000
PM10 (g/sec)	11.77
PM10 (g/sec*m2)	4.11582E-05

**Exhaust PM10 Calculation**

Parameter	Entire Site (Peak)	Entire Site (Average)
PM10 (lbs/day)	7.31	2.77
PM10 (g/day)	3318.74	1257.58
hours per day	10	10
seconds per day	36000	36000
PM10 (g/sec)	0.0922	0.0349
# of Sources (A3, A5, A1)	1	1
PM10 (g/sec*source)	0.0921872	0.0349328



**Scenario 2 - Worst Case PM10 (Cells A1, A2, A3, A4, A5)**

**Scenario Description**  
 Site Grading and Construction within Cells A1 through A5 using maximum onsite PM10, NOx and CO emissions occurring anytime during September 2008.

**Fugitive PM10 Calculation**

Cell	Entire Site Area (m <sup>2</sup> )
Total	622315.6

Parameter	Entire Site
PM10 (lbs/day)	<b>1386.6</b>
PM10 (g/day)	629493.7
hours per day	10
seconds per day	36000
PM10 (g/sec)	17.49
<b>PM10 (g/sec*m2)</b>	<b>2.80982E-05</b>

**Exhaust PM10 Calculation**

Parameter	Entire Site (Peak)	Entire Site (Average)
PM10 (lbs/day)	<b>7.69</b>	<b>2.91</b>
PM10 (g/day)	3491.26	1321.14
hours per day	10	10
seconds per day	36000	36000
PM10 (g/sec)	0.0970	0.0367
# of Sources (A3, A5, A1)	1	1
<b>PM10 (g/sec*source)</b>	<b>0.0969794</b>	<b>0.0366983</b>

**Scenario 2 - Worst Case PM10 (Cells A1, A2, A3, A4, A5)**

**Scenario Description**  
 Site Grading and Construction within Cells A1 through A5 using maximum onsite PM10, NOx and CO emissions occurring anytime during September 2008.

**Fugitive PM10 Calculation**

Cell	Entire Site Area (m <sup>2</sup> )
Total	622315.6

Parameter	Entire Site
PM10 (lbs/day)	<b>942.9</b>
PM10 (g/day)	428053.9
hours per day	10
seconds per day	36000
PM10 (g/sec)	11.89
<b>PM10 (g/sec*m2)</b>	<b>1.91067E-05</b>

**Exhaust PM10 Calculation**

Parameter	Entire Site (Peak)	Entire Site (Average)
PM10 (lbs/day)	<b>7.31</b>	<b>2.77</b>
PM10 (g/day)	3318.74	1257.58
hours per day	10	10
seconds per day	36000	36000
PM10 (g/sec)	0.0922	0.0349
# of Sources (A3, A5, A1)	1	1
<b>PM10 (g/sec*source)</b>	<b>0.0921872</b>	<b>0.0349328</b>

**Scenario 1 - Worst Case PM10 (Cells A1, A3, A5)**

**Scenario Description**  
 Site Grading and Construction within Cells A1, A3, A5 using maximum onsite PM10, CO and NOx emissions occurring anytime during September 2008

**Fugitive PM10 Calculation**

Cell	Entire Site Area (m <sup>2</sup> )
Total	286030.1

Parameter	Entire Site
PM10 (lbs/day)	1254.3
PM10 (g/day)	569679.2
hours per day	10
seconds per day	36000
PM10 (g/sec)	15.82
<b>PM10 (g/sec*m2)</b>	<b>5.53243E-05</b>

**Exhaust PM10 Calculation**

Parameter	Entire Site (Peak)	Entire Site (Average)
PM10 (lbs/day)	6.44	2.3
PM10 (g/day)	2923.76	1044.2
hours per day	10	10
seconds per day	36000	36000
PM10 (g/sec)	0.0812	0.0290
# of Sources (A3, A5, A1)	1	1
<b>PM10 (g/sec*source)</b>	<b>0.0812156</b>	<b>0.0290056</b>

**Scenario 1 - Worst Case PM10 (Cells A1, A3, A5)**

**Scenario Description**

Site Grading and Construction within Cells A1, A3, A5 using maximum onsite PM10, CO and NOx emissions occurring anytime during September 2008

**Fugitive PM10 Calculation**

Cell	Entire Site Area (m <sup>2</sup> )
Total	286030.1

Parameter	Entire Site
PM10 (lbs/day)	650.26
PM10 (g/day)	387380.04
hours per day	10
seconds per day	36000
PM10 (g/sec)	10.76
<b>PM10 (g/sec*m2)</b>	<b>3.76204E-05</b>

**Exhaust PM10 Calculation**

Parameter	Entire Site (Peak)	Entire Site (Average)
PM10 (lbs/day)	6.12	2.19
PM10 (g/day)	2778.48	994.26
hours per day	10	10
seconds per day	36000	36000
PM10 (g/sec)	0.0772	0.0276
# of Sources (A3, A5, A1)	1	1
<b>PM10 (g/sec*source)</b>	<b>0.0771800</b>	<b>0.0276183</b>

**Scenario 2 - Worst Case PM10 (Cells A1, A2, A3, A4, A5)**

**Scenario Description**  
 Site Grading and Construction within Cells A1 through A5 using maximum onsite PM10, NOx and CO emissions occurring anytime during September 2008.

**Fugitive PM10 Calculation**

Cell	Entire Site Area (m <sup>2</sup> )
Total	622315.6

Parameter	Entire Site
PM10 (lbs/day)	1288.55
PM10 (g/day)	575921.7
hours per day	10
seconds per day	36000
PM10 (g/sec)	16.00
<b>PM10 (g/sec*m2)</b>	<b>2.57069E-05</b>

**Exhaust PM10 Calculation**

Parameter	Entire Site (Peak)	Entire Site (Average)
PM10 (lbs/day)	6.77	2.2
PM10 (g/day)	2923.76	1044.2
hours per day	10	10
seconds per day	36000	36000
PM10 (g/sec)	0.0812	0.0290
# of Sources (A3, A5, A1)	1	1
<b>PM10 (g/sec*source)</b>	<b>0.0812156</b>	<b>0.0290056</b>

**Scenario 2 - Worst Case PM10 (Cells A1, A2, A3, A4, A5)**

**Scenario Description**  
 Site Grading and Construction within Cells A1 through A5 using maximum onsite PM10, NOx and CO emissions occurring anytime during September 2008.

**Fugitive PM10 Calculation**

Cell	Entire Site Area (m <sup>2</sup> )
Total	622315.6

Parameter	Entire Site
PM10 (lbs/day)	862.61
PM10 (g/day)	391624.94
hours per day	10
seconds per day	36000
PM10 (g/sec)	10.88
<b>PM10 (g/sec*m2)</b>	<b>1.74806E-05</b>

**Exhaust PM10 Calculation**

Parameter	Entire Site (Peak)	Entire Site (Average)
PM10 (lbs/day)	5.12	2.19
PM10 (g/day)	2778.48	994.26
hours per day	10	10
seconds per day	36000	36000
PM10 (g/sec)	0.0772	0.0276
# of Sources (A3, A5, A1)	1	1
<b>PM10 (g/sec*source)</b>	<b>0.0771800</b>	<b>0.0276183</b>

Carson Marketplace  
ISC Output Concentrations

**Carson Marketplace Receptor Concentrations (ug/m3)**

	Residential (South-West)	Residential (South)	Carson Elementary School (South)	Van Deene Elementary School (West)	Curtiss Middle School (East)
<b>Approved and RAP Refinements (Scenario 1)</b>					
1-hr Scaler	79.1	94.6	21.1	13.1	7.8
8-hr Scaler	18.0	18.6	3.0	1.8	1.0
<b>Approved and RAP Refinements (Scenario 2)</b>					
1-hr Scaler	46.2	47.3	16.8	11.8	10.6
8-hr Scaler	11.3	12.3	2.3	1.7	1.3

**Unmitigated**

<b>Approved - Scenario 1</b>					
24-hr PM10	173.47	145.99	30.83	15.97	9.17
Annual DPM	0.10	0.07	0.01	0.00	0.00
<b>Approved - Scenario 2</b>					
24-hr PM10	99.58	96.01	24.56	13.27	11.23
Annual DPM	0.05	0.03	0.01	0.00	0.00
<b>RAP Refinements - Scenario 1</b>					
24-hr PM10	158.00	132.94	28.08	14.54	8.35
Annual DPM	0.08	0.05	0.01	0.00	0.00
<b>RAP Refinements - Scenario 2</b>					
24-hr PM10	90.87	92.07	23.55	12.72	10.76
Annual DPM	0.04	0.03	0.01	0.00	0.00

**Mitigated**

<b>Approved - Scenario 1</b>					
24-hr PM10	118.16	99.47	21.01	10.89	6.22
Annual DPM	0.09	0.07	0.01	0.00	0.00
<b>Approved - Scenario 2</b>					
24-hr PM10	71.37	68.80	17.61	9.52	8.05
Annual DPM	0.05	0.03	0.01	0.00	0.00
<b>RAP Refinements - Scenario 1</b>					
24-hr PM10	107.58	90.42	19.13	9.91	5.69
Annual DPM	0.07	0.05	0.01	0.00	0.00
<b>RAP Refinements - Scenario 2</b>					
24-hr PM10	65.04	62.71	16.04	8.67	7.33
Annual DPM	0.04	0.03	0.00	0.00	0.00

**Notes:**

- 24-hr PM10 includes Diesel Exhaust with Diesel Particulate Traps (80% reduction) and Fugitive Dust with Rule 403 (50% reduction)
- Annual DPM averages Diesel Particulate concentrations over the duration of the project. Diesel Particulate Traps were used with 80% reduction.
- Scalers were run with a 1 g/s emission rate

Unmitigated

Carson Marketplace  
CO and NOx Concentration Calculations  
Approved - Scenario 1

	Residential (South-West)	Residential (South)	Carson Elementary School (South)	Van Deene Elementary School (West)	Curtiss Middle School (North- East)
<b>Scaler Concentrations @ 1 g/s (ug/m3)</b>					
1-hr Max (ug/m3)	79.1	94.6	21.1	13.1	7.8
8-hr Max (ug/m3)	18.0	18.6	3.0	1.8	1.0
<b>Maximum Emission Rate (lbs/day)</b>					
NOx (lbs/day)	996.0	996.0	996.0	996.0	996.0
CO (lbs/day)	1272.4	1272.4	1272.4	1272.4	1272.4
<b>Receptor Concentrations (ppm) from Construction Activities</b>					
1-hr NO <sub>2</sub> (ppm) <sup>1</sup>	0.05	0.06	0.01	0.01	0.01
1-hr CO (ppm)	1.11	1.33	0.30	0.18	0.11
8-hr CO (ppm)	0.25	0.26	0.04	0.03	0.01
<b>Background Concentrations (ppm)<sup>2</sup></b>					
1-hr NO <sub>2</sub> (ppm)	0.14	0.14	0.14	0.14	0.14
1-hr CO (ppm)	10.00	10.00	10.00	10.00	10.00
8-hr CO (ppm)	6.00	6.00	6.00	6.00	6.00
<b>Receptor Concentrations (ppm) from Construction Activities and Background</b>					
1-hr NO <sub>2</sub> (ppm)	<b>0.19</b>	<b>0.20</b>	<b>0.15</b>	<b>0.15</b>	<b>0.15</b>
1-hr CO (ppm)	<b>11.11</b>	<b>11.33</b>	<b>10.30</b>	<b>10.18</b>	<b>10.11</b>
8-hr CO (ppm)	<b>6.25</b>	<b>6.26</b>	<b>6.04</b>	<b>6.03</b>	<b>6.01</b>
<b>California Ambient Air Quality Standards (Exceedances)</b>					
1-hr NO <sub>2</sub>	No	No	No	No	No
1-hr CO	No	No	No	No	No
8-hr CO	No	No	No	No	No
<b>National Ambient Air Quality Standards (Exceedances)</b>					
1-hr NO <sub>2</sub>	No	No	No	No	No
1-hr CO	No	No	No	No	No
8-hr CO	No	No	No	No	No

**Air Quality Standards**

	CAAQS	NAAQS
1-hr NO <sub>2</sub> (ppm)	0.25	N/A
1-hr CO (ppm)	20	35
8-hr CO (ppm)	9	9

<sup>1</sup>Assumes 10% NOx to NO<sub>2</sub> Conversion

<sup>2</sup> California Air Resources Board, Ambient Monitoring Data 2000–2004



Unmitigated

Carson Marketplace  
CO and NOx Concentration Calculations  
Approved - Scenario 2

	Residential (South-West)	Residential (South)	Carson Elementary School (South)	Van Deene Elementary School (West)	Curtiss Middle School (North- East)
<b>Scaler Concentrations @ 1 g/s (ug/m3)</b>					
1-hr Max (ug/m3)	46.2	47.3	16.8	11.8	10.6
8-hr Max (ug/m3)	11.3	12.3	2.3	1.7	1.3
<b>Maximum Emission Rate (lbs/day)</b>					
NOx (lbs/day)	996.0	996.0	996.0	996.0	996.0
CO (lbs/day)	1272.4	1272.4	1272.4	1272.4	1272.4
<b>Receptor Concentrations (ppm) from Construction Activities</b>					
1-hr NO <sub>2</sub> (ppm) <sup>1</sup>	0.03	0.03	0.01	0.01	0.01
1-hr CO (ppm)	0.65	0.66	0.24	0.17	0.15
8-hr CO (ppm)	0.16	0.17	0.03	0.02	0.02
<b>Background Concentrations (ppm)<sup>2</sup></b>					
1-hr NO <sub>2</sub> (ppm)	0.14	0.14	0.14	0.14	0.14
1-hr CO (ppm)	10.00	10.00	10.00	10.00	10.00
8-hr CO (ppm)	6.00	6.00	6.00	6.00	6.00
<b>Receptor Concentrations (ppm) from Construction Activities and Background</b>					
1-hr NO <sub>2</sub> (ppm)	0.17	0.17	0.15	0.15	0.15
1-hr CO (ppm)	10.65	10.66	10.24	10.17	10.15
8-hr CO (ppm)	6.16	6.17	6.03	6.02	6.02
<b>California Ambient Air Quality Standards (Exceedances)</b>					
1-hr NO <sub>2</sub>	No	No	No	No	No
1-hr CO	No	No	No	No	No
8-hr CO	No	No	No	No	No
<b>National Ambient Air Quality Standards (Exceedances)</b>					
1-hr NO <sub>2</sub>	No	No	No	No	No
1-hr CO	No	No	No	No	No
8-hr CO	No	No	No	No	No

**Air Quality Standards**

	CAAQS	NAAQS
1-hr NO <sub>2</sub> (ppm)	0.25	N/A
1-hr CO (ppm)	20	35
8-hr CO (ppm)	9	9

<sup>1</sup>Assumes 10% NOx to NO<sub>2</sub> Conversion

<sup>2</sup> California Air Resources Board, Ambient Monitoring Data 2000–2004

Unmitigated

Carson Marketplace  
CO and NOx Concentration Calculations  
RAP Refinements- Scenario 1

	Residential (South-West)	Residential (South)	Carson Elementary School (South)	Van Deene Elementary School (West)	Curtiss Middle School (North- East)
<b>Scaler Concentrations @ 1 g/s (ug/m3)</b>					
1-hr Max (ug/m3)	79.1	94.6	21.1	13.1	7.8
8-hr Max (ug/m3)	18.0	18.6	3.0	1.8	1.0
<b>Maximum Emission Rate (lbs/day)</b>					
NOx (lbs/day)	843.2	843.2	843.2	843.2	843.2
CO (lbs/day)	1077.6	1077.6	1077.6	1077.6	1077.6
<b>Receptor Concentrations (ppm) from Construction Activities</b>					
1-hr NO <sub>2</sub> (ppm) <sup>1</sup>	0.04	0.05	0.01	0.01	0.00
1-hr CO (ppm)	0.94	1.12	0.25	0.16	0.09
8-hr CO (ppm)	0.21	0.22	0.04	0.02	0.01
<b>Background Concentrations (ppm)<sup>2</sup></b>					
1-hr NO <sub>2</sub> (ppm)	0.14	0.14	0.14	0.14	0.14
1-hr CO (ppm)	10.00	10.00	10.00	10.00	10.00
8-hr CO (ppm)	6.00	6.00	6.00	6.00	6.00
<b>Receptor Concentrations (ppm) from Construction Activities and Background</b>					
1-hr NO <sub>2</sub> (ppm)	0.18	0.19	0.15	0.15	0.14
1-hr CO (ppm)	10.94	11.12	10.25	10.16	10.09
8-hr CO (ppm)	6.21	6.22	6.04	6.02	6.01
<b>California Ambient Air Quality Standards (Exceedances)</b>					
1-hr NO <sub>2</sub>	No	No	No	No	No
1-hr CO	No	No	No	No	No
8-hr CO	No	No	No	No	No
<b>National Ambient Air Quality Standards (Exceedances)</b>					
1-hr NO <sub>2</sub>	No	No	No	No	No
1-hr CO	No	No	No	No	No
8-hr CO	No	No	No	No	No

**Air Quality Standards**

	CAAQS	NAAQS
1-hr NO <sub>2</sub> (ppm)	0.25	N/A
1-hr CO (ppm)	20	35
8-hr CO (ppm)	9	9

<sup>1</sup>Assumes 10% NOx to NO<sub>2</sub> Conversion

<sup>2</sup> California Air Resources Board, Ambient Monitoring Data 2000–2004

Carson Marketplace  
CO and NOx Concentration Calculations  
RAP Refinements- Scenario 2

	Residential (South-West)	Residential (South)	Carson Elementary School (South)	Van Deene Elementary School (West)	Curtiss Middle School (North- East)
<b>Scaler Concentrations @ 1 g/s (ug/m3)</b>					
1-hr Max (ug/m3)	46.2	47.3	16.8	11.8	10.6
8-hr Max (ug/m3)	11.3	12.3	2.3	1.7	1.3
<b>Maximum Emission Rate (lbs/day)</b>					
NOx (lbs/day)	843.2	843.2	843.2	843.2	843.2
CO (lbs/day)	1077.6	1077.6	1077.6	1077.6	1077.6
<b>Receptor Concentrations (ppm) from Construction Activities</b>					
1-hr NO <sub>2</sub> (ppm) <sup>1</sup>	0.03	0.03	0.01	0.01	0.01
1-hr CO (ppm)	0.55	0.56	0.20	0.14	0.13
8-hr CO (ppm)	0.13	0.15	0.03	0.02	0.02
<b>Background Concentrations (ppm)<sup>2</sup></b>					
1-hr NO <sub>2</sub> (ppm)	0.14	0.14	0.14	0.14	0.14
1-hr CO (ppm)	10.00	10.00	10.00	10.00	10.00
8-hr CO (ppm)	6.00	6.00	6.00	6.00	6.00
<b>Receptor Concentrations (ppm) from Construction Activities and Background</b>					
1-hr NO <sub>2</sub> (ppm)	0.17	0.17	0.15	0.15	0.15
1-hr CO (ppm)	10.55	10.56	10.20	10.14	10.13
8-hr CO (ppm)	6.13	6.15	6.03	6.02	6.02
<b>California Ambient Air Quality Standards (Exceedances)</b>					
1-hr NO <sub>2</sub>	No	No	No	No	No
1-hr CO	No	No	No	No	No
8-hr CO	No	No	No	No	No
<b>National Ambient Air Quality Standards (Exceedances)</b>					
1-hr NO <sub>2</sub>	No	No	No	No	No
1-hr CO	No	No	No	No	No
8-hr CO	No	No	No	No	No

**Air Quality Standards**

	CAAQS	NAAQS
1-hr NO <sub>2</sub> (ppm)	0.25	N/A
1-hr CO (ppm)	20	35
8-hr CO (ppm)	9	9

<sup>1</sup>Assumes 10% NOx to NO<sub>2</sub> Conversion

<sup>2</sup> California Air Resources Board, Ambient Monitoring Data 2000–2004

Mitigated

Carson Marketplace  
CO and NOx Concentration Calculations  
Approved - Scenario 1

	Residential (South-West)	Residential (South)	Carson Elementary School (South)	Van Deene Elementary School (West)	Curtiss Middle School (North- East)
<b>Scaler Concentrations @ 1 g/s (ug/m3)</b>					
1-hr Max (ug/m3)	79.1	94.6	21.1	13.1	7.8
8-hr Max (ug/m3)	18.0	18.6	3.0	1.8	1.0
<b>Maximum Emission Rate (lbs/day)</b>					
NOx (lbs/day)	946.4	946.4	946.4	946.4	946.4
CO (lbs/day)	1208.9	1208.9	1208.9	1208.9	1208.9
<b>Receptor Concentrations (ppm) from Construction Activities</b>					
1-hr NO <sub>2</sub> (ppm) <sup>1</sup>	0.05	0.06	0.01	0.01	0.00
1-hr CO (ppm)	1.05	1.26	0.28	0.17	0.10
8-hr CO (ppm)	0.24	0.25	0.04	0.02	0.01
<b>Background Concentrations (ppm)<sup>2</sup></b>					
1-hr NO <sub>2</sub> (ppm)	0.14	0.14	0.14	0.14	0.14
1-hr CO (ppm)	10.00	10.00	10.00	10.00	10.00
8-hr CO (ppm)	6.00	6.00	6.00	6.00	6.00
<b>Receptor Concentrations (ppm) from Construction Activities and Background</b>					
1-hr NO <sub>2</sub> (ppm)	<b>0.19</b>	<b>0.20</b>	<b>0.15</b>	<b>0.15</b>	<b>0.14</b>
1-hr CO (ppm)	<b>11.05</b>	<b>11.26</b>	<b>10.28</b>	<b>10.17</b>	<b>10.10</b>
8-hr CO (ppm)	<b>6.24</b>	<b>6.25</b>	<b>6.04</b>	<b>6.02</b>	<b>6.01</b>
<b>California Ambient Air Quality Standards (Exceedances)</b>					
1-hr NO <sub>2</sub>	No	No	No	No	No
1-hr CO	No	No	No	No	No
8-hr CO	No	No	No	No	No
<b>National Ambient Air Quality Standards (Exceedances)</b>					
1-hr NO <sub>2</sub>	No	No	No	No	No
1-hr CO	No	No	No	No	No
8-hr CO	No	No	No	No	No

**Air Quality Standards**

	CAAQS	NAAQS
1-hr NO <sub>2</sub> (ppm)	0.25	N/A
1-hr CO (ppm)	20	35
8-hr CO (ppm)	9	9

<sup>1</sup>Assumes 10% NOx to NO<sub>2</sub> Conversion

<sup>2</sup> California Air Resources Board, Ambient Monitoring Data 2000–2004

Mitigated

Carson Marketplace  
CO and NOx Concentration Calculations  
Approved - Scenario 2

	Residential (South-West)	Residential (South)	Carson Elementary School (South)	Van Deene Elementary School (West)	Curtiss Middle School (North- East)
<b>Scaler Concentrations @ 1 g/s (ug/m3)</b>					
1-hr Max (ug/m3)	46.2	47.3	16.8	11.8	10.6
8-hr Max (ug/m3)	11.3	12.3	2.3	1.7	1.3
<b>Maximum Emission Rate (lbs/day)</b>					
NOx (lbs/day)	946.4	946.4	946.4	946.4	946.4
CO (lbs/day)	1208.9	1208.9	1208.9	1208.9	1208.9
<b>Receptor Concentrations (ppm) from Construction Activities</b>					
1-hr NO <sub>2</sub> (ppm) <sup>1</sup>	0.03	0.03	0.01	0.01	0.01
1-hr CO (ppm)	0.61	0.63	0.22	0.16	0.14
8-hr CO (ppm)	0.15	0.16	0.03	0.02	0.02
<b>Background Concentrations (ppm)<sup>2</sup></b>					
1-hr NO <sub>2</sub> (ppm)	0.14	0.14	0.14	0.14	0.14
1-hr CO (ppm)	10.00	10.00	10.00	10.00	10.00
8-hr CO (ppm)	6.00	6.00	6.00	6.00	6.00
<b>Receptor Concentrations (ppm) from Construction Activities and Background</b>					
1-hr NO <sub>2</sub> (ppm)	0.17	0.17	0.15	0.15	0.15
1-hr CO (ppm)	10.61	10.63	10.22	10.16	10.14
8-hr CO (ppm)	6.15	6.16	6.03	6.02	6.02
<b>California Ambient Air Quality Standards (Exceedances)</b>					
1-hr NO <sub>2</sub>	No	No	No	No	No
1-hr CO	No	No	No	No	No
8-hr CO	No	No	No	No	No
<b>National Ambient Air Quality Standards (Exceedances)</b>					
1-hr NO <sub>2</sub>	No	No	No	No	No
1-hr CO	No	No	No	No	No
8-hr CO	No	No	No	No	No

**Air Quality Standards**

	CAAQS	NAAQS
1-hr NO <sub>2</sub> (ppm)	0.25	N/A
1-hr CO (ppm)	20	35
8-hr CO (ppm)	9	9

<sup>1</sup> Assumes 10% NOx to NO<sub>2</sub> Conversion

<sup>2</sup> California Air Resources Board, Ambient Monitoring Data 2000–2004

Mitigated

Carson Marketplace  
CO and NOx Concentration Calculations  
RAP Refinements - Scenario 1

	Residential (South-West)	Residential (South)	Carson Elementary School (South)	Van Deene Elementary School (West)	Curtiss Middle School (North- East)
<b>Scaler Concentrations @ 1 g/s (ug/m3)</b>					
1-hr Max (ug/m3)	79.1	94.6	21.1	13.1	7.8
8-hr Max (ug/m3)	18.0	18.6	3.0	1.8	1.0
<b>Maximum Emission Rate (lbs/day)</b>					
NOx (lbs/day)	801.4	801.4	801.4	801.4	801.4
CO (lbs/day)	1023.8	1023.8	1023.8	1023.8	1023.8
<b>Receptor Concentrations (ppm) from Construction Activities</b>					
1-hr NO <sub>2</sub> (ppm) <sup>1</sup>	0.04	0.05	0.01	0.01	0.00
1-hr CO (ppm)	0.89	1.07	0.24	0.15	0.09
8-hr CO (ppm)	0.20	0.21	0.03	0.02	0.01
<b>Background Concentrations (ppm)<sup>2</sup></b>					
1-hr NO <sub>2</sub> (ppm)	0.14	0.14	0.14	0.14	0.14
1-hr CO (ppm)	10.00	10.00	10.00	10.00	10.00
8-hr CO (ppm)	6.00	6.00	6.00	6.00	6.00
<b>Receptor Concentrations (ppm) from Construction Activities and Background</b>					
1-hr NO <sub>2</sub> (ppm)	0.18	0.19	0.15	0.15	0.14
1-hr CO (ppm)	10.89	11.07	10.24	10.15	10.09
8-hr CO (ppm)	6.20	6.21	6.03	6.02	6.01
<b>California Ambient Air Quality Standards (Exceedances)</b>					
1-hr NO <sub>2</sub>	No	No	No	No	No
1-hr CO	No	No	No	No	No
8-hr CO	No	No	No	No	No
<b>National Ambient Air Quality Standards (Exceedances)</b>					
1-hr NO <sub>2</sub>	No	No	No	No	No
1-hr CO	No	No	No	No	No
8-hr CO	No	No	No	No	No

**Air Quality Standards**

	CAAQS	NAAQS
1-hr NO <sub>2</sub> (ppm)	0.25	N/A
1-hr CO (ppm)	20	35
8-hr CO (ppm)	9	9

<sup>1</sup>Assumes 10% NOx to NO<sub>2</sub> Conversion

<sup>2</sup> California Air Resources Board, Ambient Monitoring Data 2000–2004

Mitigated

Carson Marketplace  
CO and NOx Concentration Calculations  
RAP Refinements - Scenario 2

	Residential (South-West)	Residential (South)	Carson Elementary School (South)	Van Deene Elementary School (West)	Curtiss Middle School (North- East)
<b>Scaler Concentrations @ 1 g/s (ug/m3)</b>					
1-hr Max (ug/m3)	46.2	47.3	16.8	11.8	10.6
8-hr Max (ug/m3)	11.3	12.3	2.3	1.7	1.3
<b>Maximum Emission Rate (lbs/day)</b>					
NOx (lbs/day)	801.4	801.4	801.4	801.4	801.4
CO (lbs/day)	1023.8	1023.8	1023.8	1023.8	1023.8
<b>Receptor Concentrations (ppm) from Construction Activities</b>					
1-hr NO <sub>2</sub> (ppm) <sup>1</sup>	0.02	0.03	0.01	0.01	0.01
1-hr CO (ppm)	0.52	0.53	0.19	0.13	0.12
8-hr CO (ppm)	0.13	0.14	0.03	0.02	0.01
<b>Background Concentrations (ppm)<sup>2</sup></b>					
1-hr NO <sub>2</sub> (ppm)	0.14	0.14	0.14	0.14	0.14
1-hr CO (ppm)	10.00	10.00	10.00	10.00	10.00
8-hr CO (ppm)	6.00	6.00	6.00	6.00	6.00
<b>Receptor Concentrations (ppm) from Construction Activities and Background</b>					
1-hr NO <sub>2</sub> (ppm)	0.16	0.17	0.15	0.15	0.15
1-hr CO (ppm)	10.52	10.53	10.19	10.13	10.12
8-hr CO (ppm)	6.13	6.14	6.03	6.02	6.01
<b>California Ambient Air Quality Standards (Exceedances)</b>					
1-hr NO <sub>2</sub>	No	No	No	No	No
1-hr CO	No	No	No	No	No
8-hr CO	No	No	No	No	No
<b>National Ambient Air Quality Standards (Exceedances)</b>					
1-hr NO <sub>2</sub>	No	No	No	No	No
1-hr CO	No	No	No	No	No
8-hr CO	No	No	No	No	No

**Air Quality Standards**

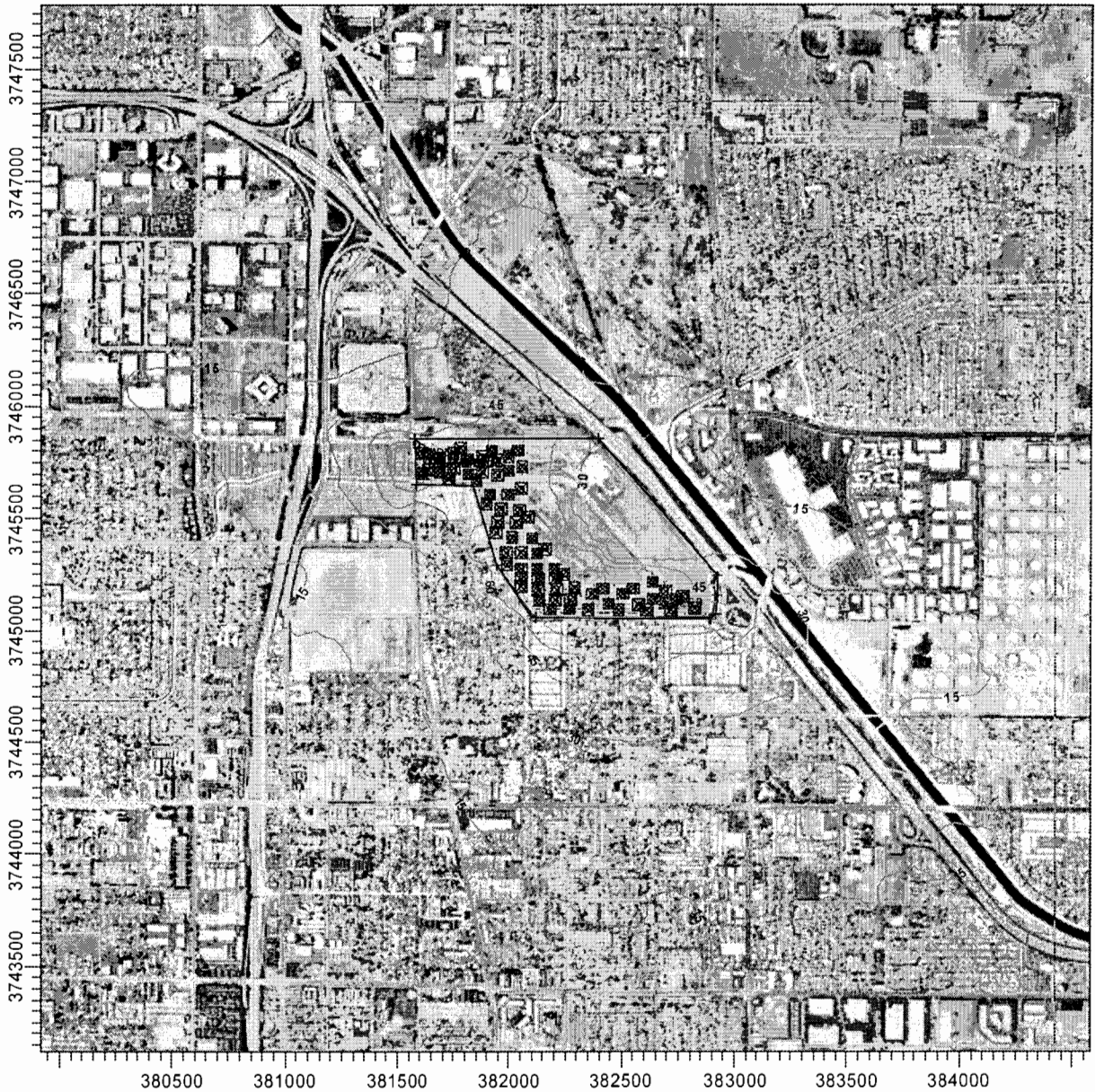
	CAAQS	NAAQS
1-hr NO <sub>2</sub> (ppm)	0.25	N/A
1-hr CO (ppm)	20	35
8-hr CO (ppm)	9	9

<sup>1</sup>Assumes 10% NOx to NO<sub>2</sub> Conversion

<sup>2</sup> California Air Resources Board, Ambient Monitoring Data 2000–2004

PROJECT TITLE:

V:\AQNOISE DIVISION\Active Projects\Carson Stadium\ISC\Approved - Sc



COMMENTS:

Carson Marketplace  
 Approved and Proposed RAP  
 Scenario 1 (Site Grading Cells  
 A1, A3, A5)  
 1-hr Max Scaler  
 Exhaust Only

SOURCES:

**4**

COMPANY NAME:

**PCR Services Corporation**

RECEPTORS:

**2963**

MODELER:

**Everest Yan**

OUTPUT TYPE:

**CONC**

SCALE: 1:28,431

0  1 km

MAX:

**94.62788 ug/m^3**

DATE:

**10/20/2005**

PROJECT NO.:



PROJECT TITLE:

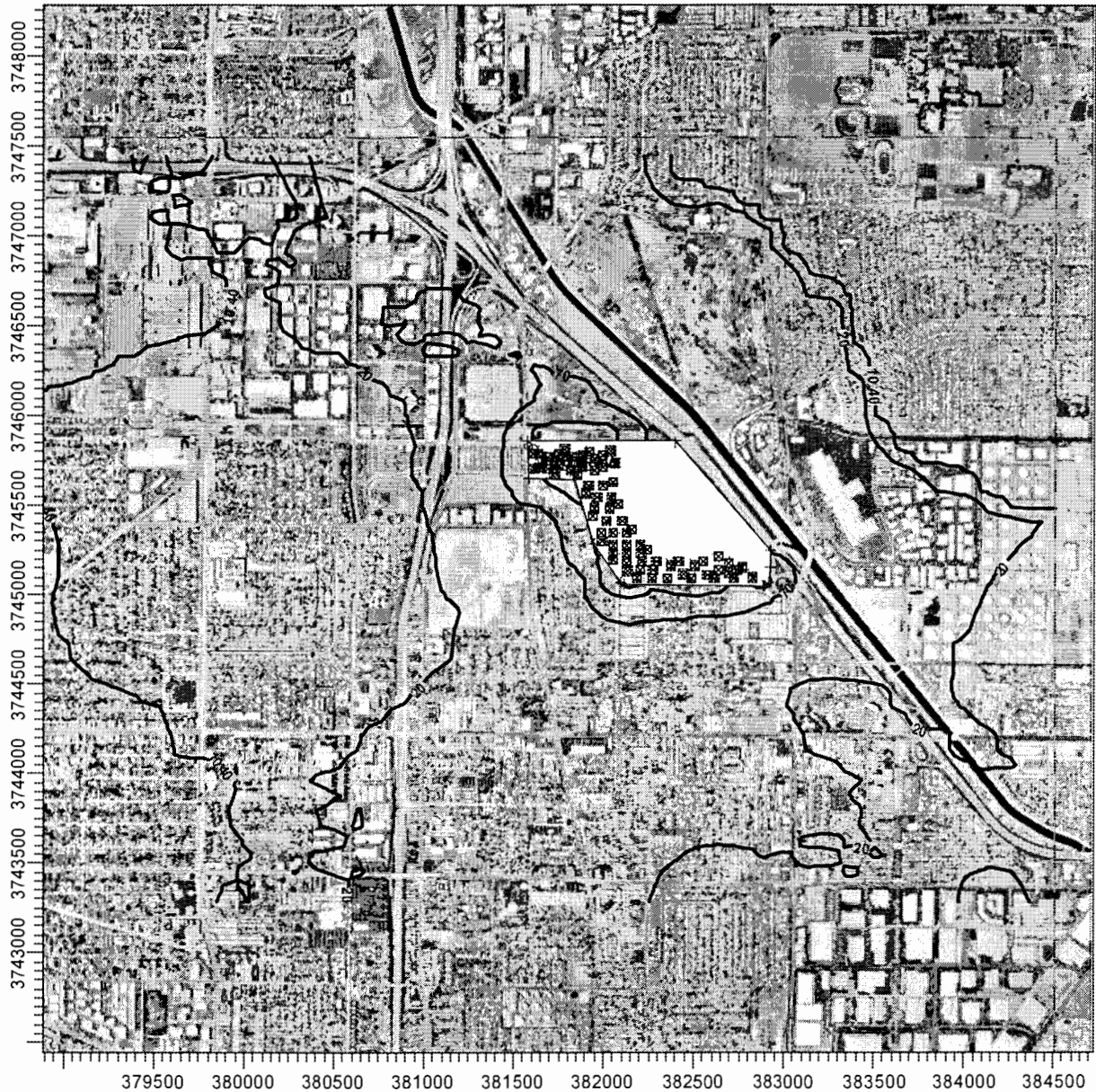
V:\AQNOISE DIVISION\Active Projects\Carson Stadium\ISC\Approved - Sc



<p>COMMENTS:</p> <p>Carson Marketplace Approved and Proposed RAP Scenario 1 (Site Grading Cells A1, A3, A5) 8-hr Max Scaler Exhaust Only</p>	<p>SOURCES:</p> <p><b>4</b></p>	<p>COMPANY NAME:</p> <p><b>PCR Services Corporation</b></p>		
	<p>RECEPTORS:</p> <p><b>2963</b></p>	<p>MODELER:</p> <p><b>Everest Yan</b></p>		
	<p>OUTPUT TYPE:</p> <p><b>CONC</b></p>	<p>SCALE:</p> <p>1:15,993</p>		
	<p>MAX:</p> <p><b>25.04753 ug/m^3</b></p>	<p>DATE:</p> <p><b>10/20/2005</b></p>	<p>PROJECT NO.:</p>	

PROJECT TITLE:

V:\AQNOISE DIVISION\Active Projects\Carson Stadium\ISC\Approved - Sc



<p>COMMENTS:</p> <p>Carson Marketplace Approved RAP Scenario 1 (Site Grading Cells A1, A3, A5) 24-hr Max PM10 Exhaust + Fugitive (Unmitigated)</p>	<p>SOURCES:</p> <p><b>4</b></p>	<p>COMPANY NAME:</p> <p><b>PCR Services Corporation</b></p>	
	<p>RECEPTORS:</p> <p><b>590</b></p>	<p>MODELER:</p> <p><b>Everest Yan</b></p>	
	<p>OUTPUT TYPE:</p> <p><b>CONC</b></p>	<p>SCALE: 1:35,575</p> <p>0  1 km</p>	
	<p>MAX:</p> <p><b>236.95415 ug/m^3</b></p>	<p>DATE:</p> <p><b>10/24/2005</b></p>	<p>PROJECT NO.:</p>

PROJECT TITLE:

V:\AQNOISE DIVISION\Active Projects\Carson Stadium\ISC\Approved - Sc



COMMENTS:

Carson Marketplace  
 Approved RAP  
 Scenario 1 (Site Grading Cells  
 A1, A3, A5)  
 24-hr Max PM10  
 Fugitive + Exhaust  
 (Mitigated)

SOURCES:

**4**

COMPANY NAME:

**PCR Services Corporation**

RECEPTORS:

**566**

MODELER:

**Everest Yan**

OUTPUT TYPE:

**CONC**

SCALE: 1:30,051



MAX:

**161.35622 ug/m^3**

DATE:

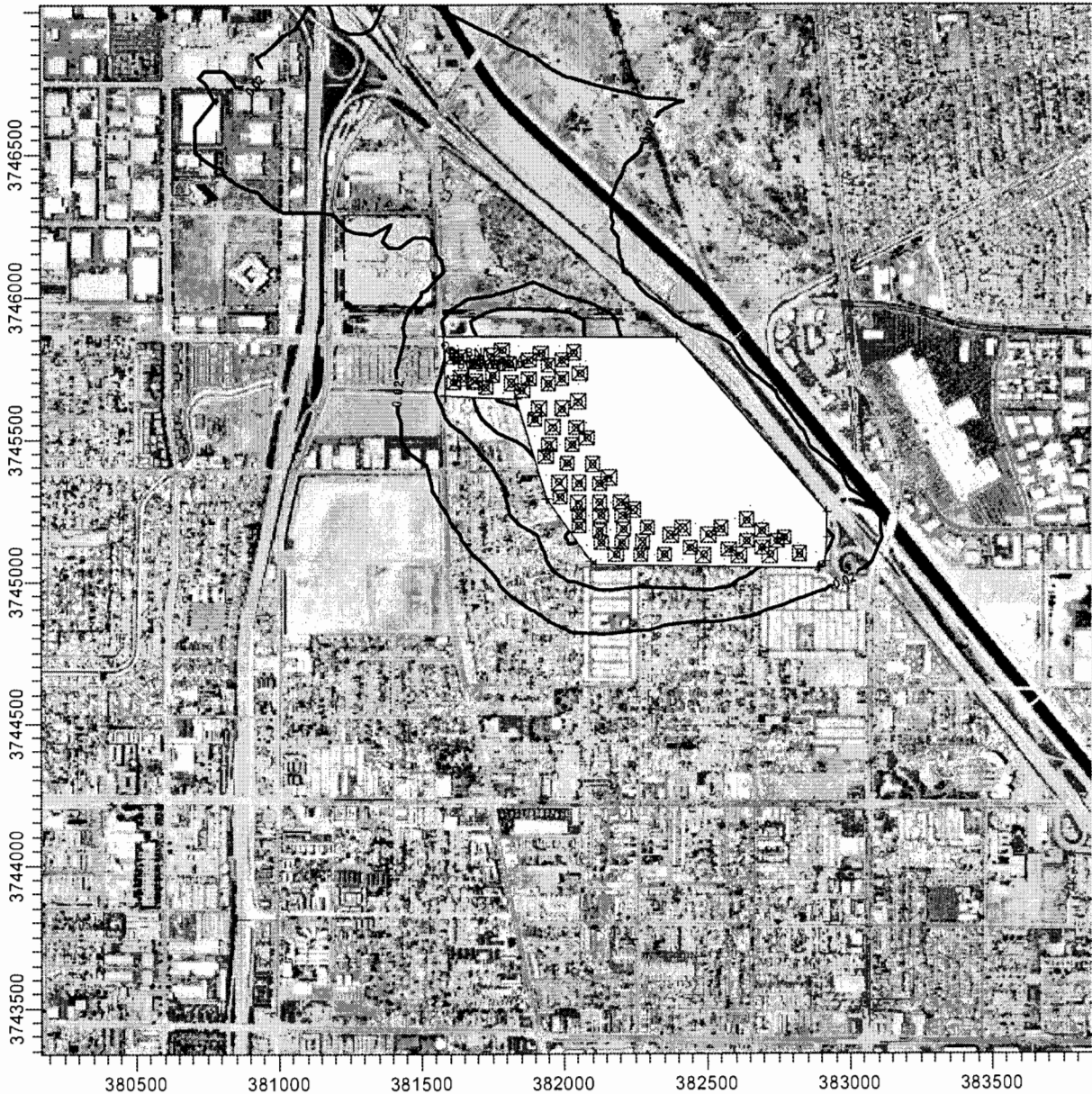
**10/24/2005**

PROJECT NO.:



PROJECT TITLE:

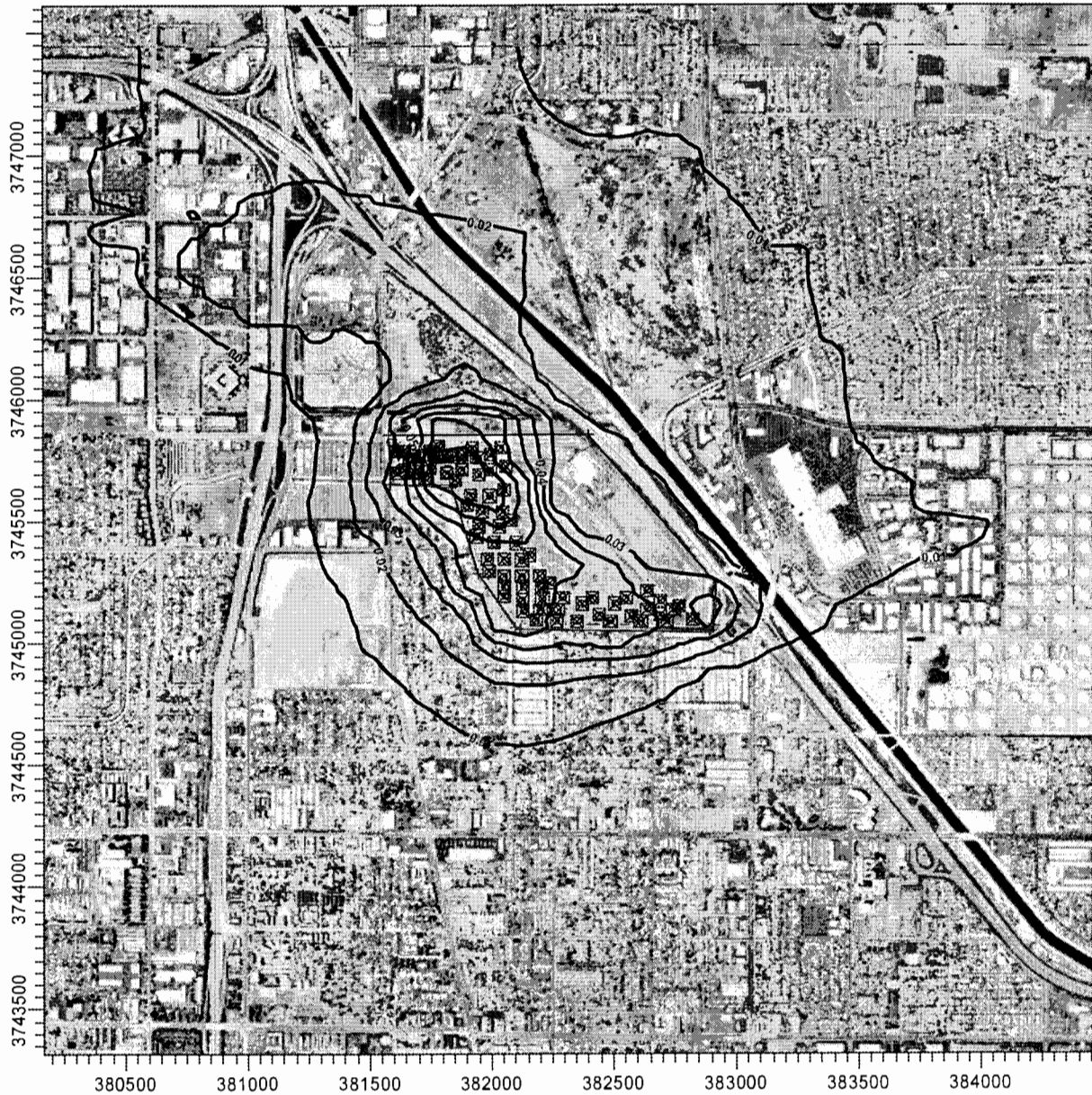
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COMMENTS:  Carson Marketplace Approved RAP Scenario 1 (Site Grading Cells A1, A3, A5) Annual PM10 Exhaust Only (Unmitigated)	SOURCES:  <b>4</b>	COMPANY NAME:  <b>PCR Services Corporation</b>	
	RECEPTORS:  <b>590</b>	MODELER:  <b>Everest Yan</b>	
	OUTPUT TYPE:  <b>CONC</b>	SCALE: 1:22,456  	
	MAX:  <b>0.10169 ug/m^3</b>	DATE:  <b>10/24/2005</b>	PROJECT NO.:

PROJECT TITLE:

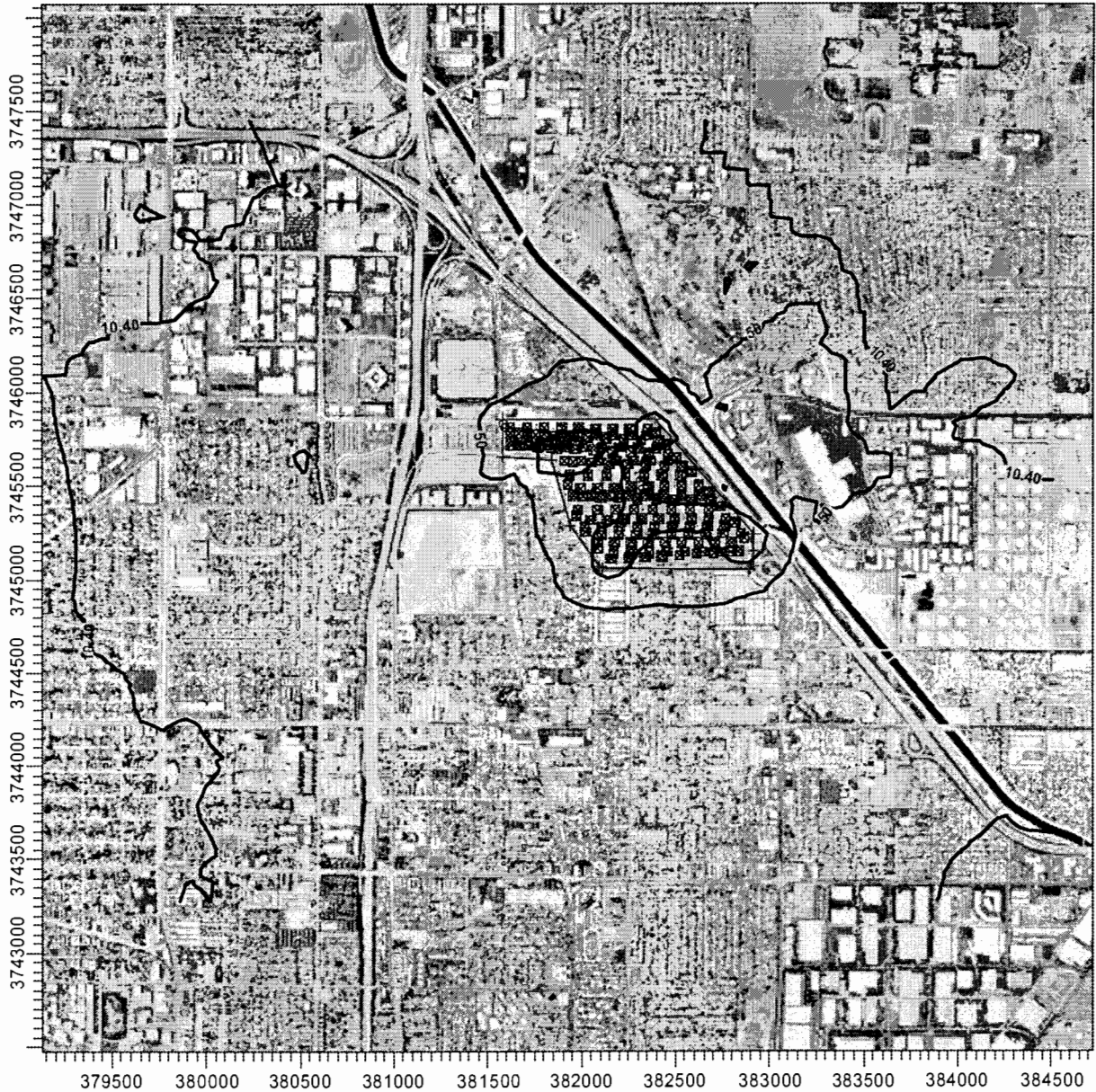
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COMMENTS: Carson Market Place Approved RAP Scenario 1 (Site Grading Cells A1, A3, A5) Annual DPM Exhaust Only (Mitigated)	SOURCES: <b>4</b>	COMPANY NAME: <b>PCR Services Corporation</b>	
	RECEPTORS: <b>566</b>	MODELER: <b>Everest Yan</b>	
	OUTPUT TYPE: <b>CONC</b>	SCALE: <b>1:26,190</b> 0  1 km	
	MAX: <b>0.0968 ug/m^3</b>	DATE: <b>10/24/2005</b>	PROJECT NO.:

PROJECT TITLE:

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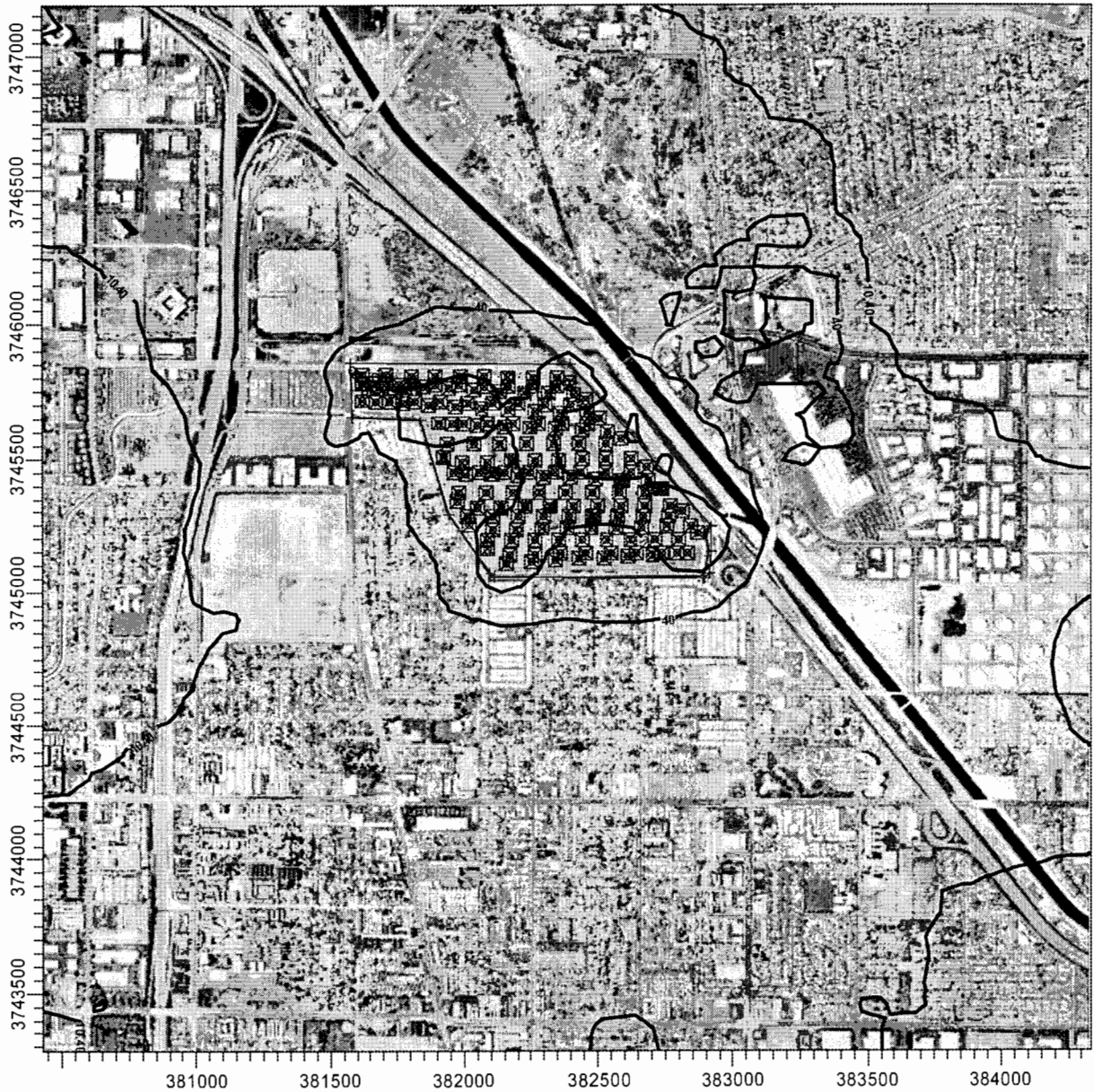


<p>COMMENTS:</p> <p>Carson Marketplace Approved RAP Scenario 2 (Site Grading Cells A1, A2, A3, A4, A5) 24-hr Max PM10 Fugitive + Exhaust (Unmitigated)</p>	<p>SOURCES:</p> <p><b>4</b></p>	<p>COMPANY NAME:</p> <p><b>PCR Services Corporation</b></p>	
	<p>RECEPTORS:</p> <p><b>578</b></p>	<p>MODELER:</p> <p><b>Everest Yan</b></p>	
	<p>OUTPUT TYPE:</p> <p><b>CONC</b></p>	<p>SCALE: 1:34,101</p> <p>0  1 km</p>	
	<p>MAX:</p> <p><b>151.96922 ug/m^3</b></p>	<p>DATE:</p> <p><b>10/24/2005</b></p>	<p>PROJECT NO.:</p>



PROJECT TITLE:

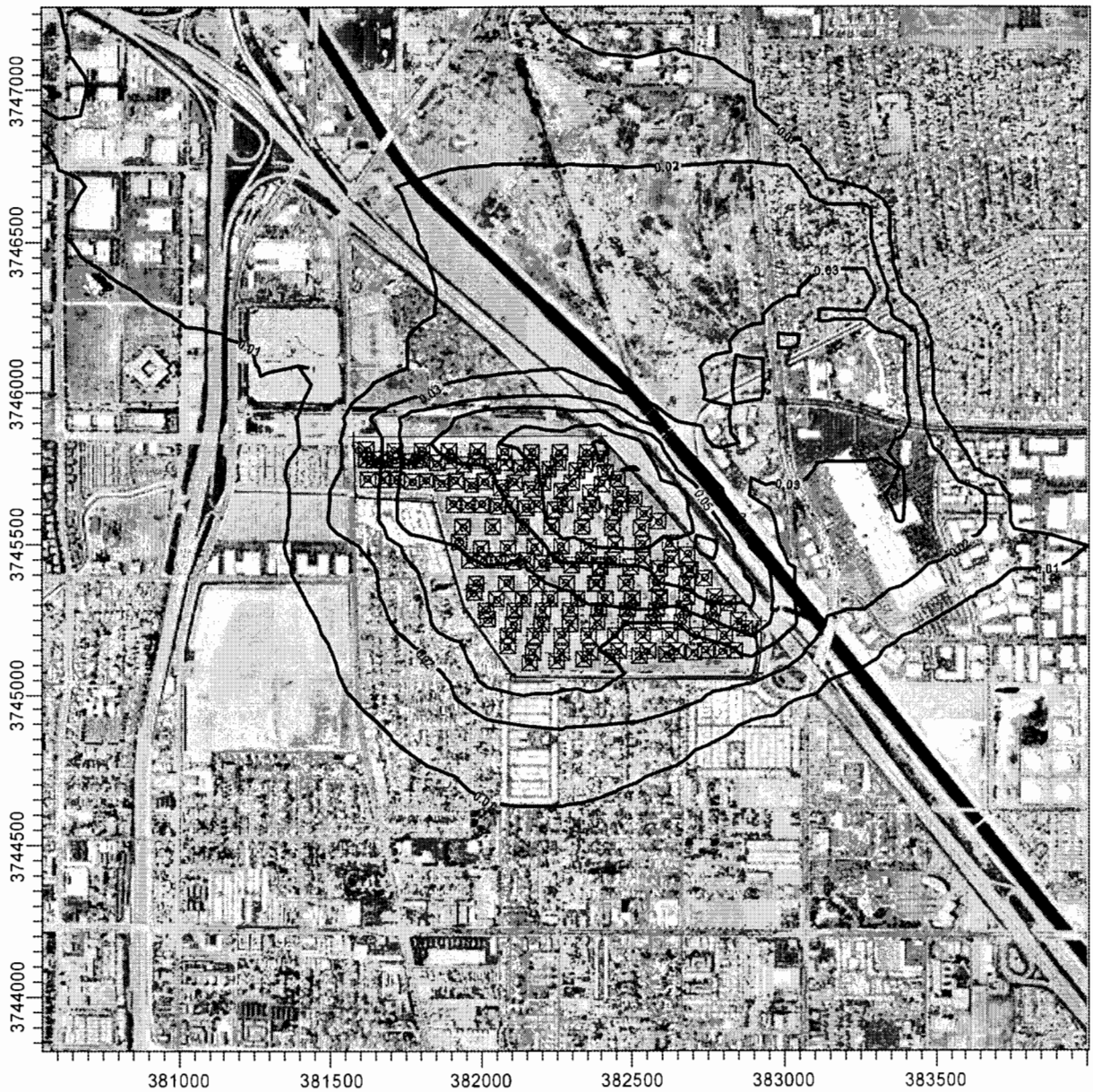
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<p>COMMENTS:</p> <p>Carson Marketplace Approved RAP Scenario 2 (Site Grading Cells A1, A2, A3, A4, A5) 24-hr Max PM10 Fugitive + Exhaust (Mitigated)</p>	<p>SOURCES:</p> <p><b>4</b></p>	<p>COMPANY NAME:</p> <p><b>PCR Services Corporation</b></p>	
	<p>RECEPTORS:</p> <p><b>578</b></p>	<p>MODELER:</p> <p><b>Everest Yan</b></p>	
	<p>OUTPUT TYPE:</p> <p><b>CONC</b></p>	<p>SCALE:</p> <p>1:23,808</p> <p>0  0.5 km</p>	
	<p>MAX:</p> <p><b>108.85351 ug/m^3</b></p>	<p>DATE:</p> <p><b>10/24/2005</b></p>	<p>PROJECT NO.:</p>

PROJECT TITLE:

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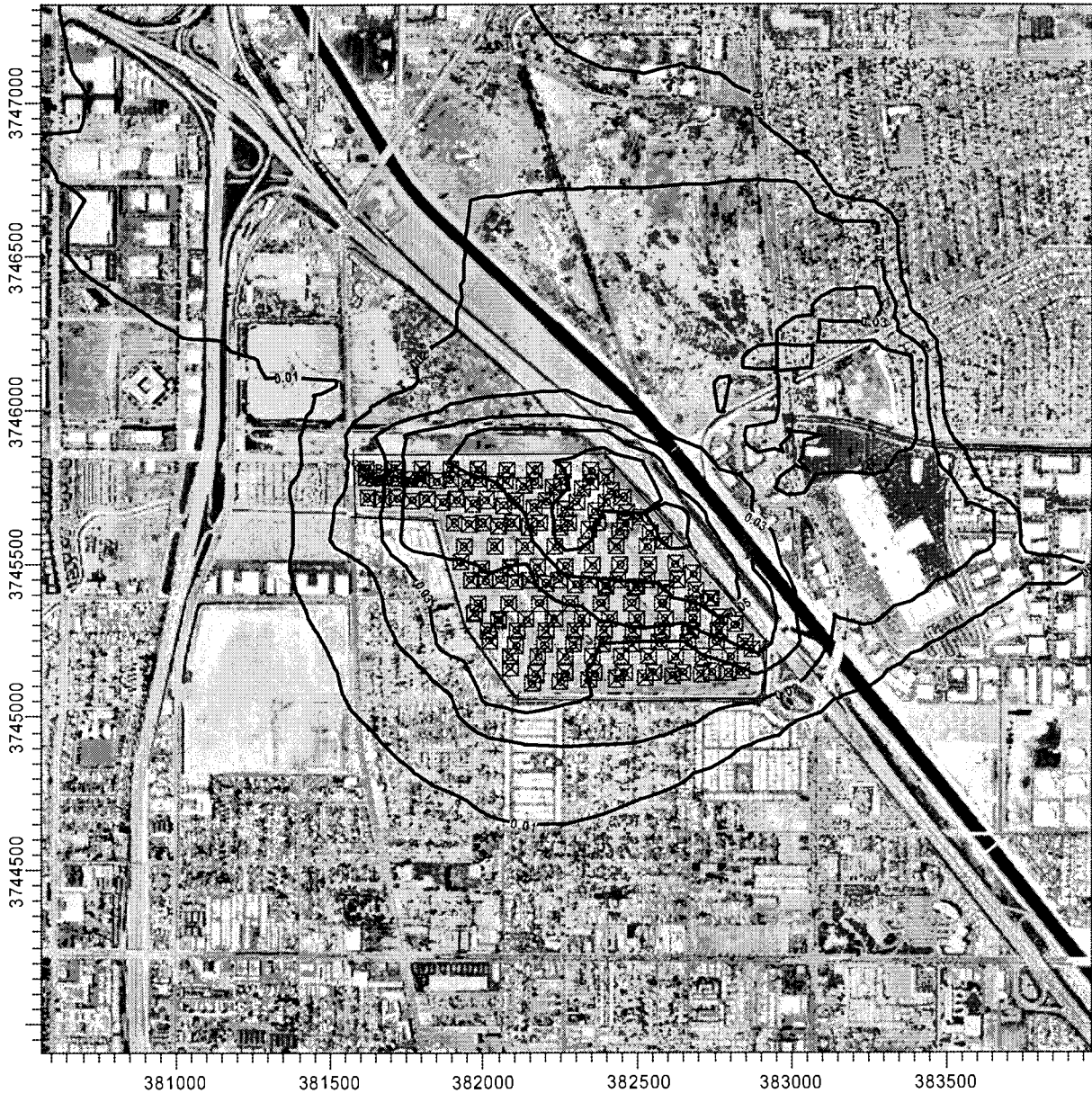


COMMENTS: Carson Marketplace Approved RAP Scenario 2 (Site Grading Cells A1, A2, A3, A4, A5) Annual DPM Exhaust Only (Unmitigated)	SOURCES: <b>4</b>	COMPANY NAME: <b>PCR Services Corporation</b>	
	RECEPTORS: <b>578</b>	MODELER: <b>Everest Yan</b>	
	OUTPUT TYPE: <b>CONC</b>	SCALE: 1:21,058 0  0.5 km	
	MAX: <b>0.07418 ug/m^3</b>	DATE: <b>10/24/2005</b>	PROJECT NO.:



PROJECT TITLE:

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COMMENTS:

Carson Marketplace  
Approved RAP  
Scenario 2 (Site Grading Cells  
A1, A2, A3, A4, A5)  
Annual DPM  
Exhaust Only  
(Mitigated)

SOURCES:

**4**

COMPANY NAME:

**PCR Services Corporation**

RECEPTORS:

**578**

MODELER:

**Everest Yan**

OUTPUT TYPE:

**CONC**

SCALE: 1:20,796



MAX:

**0.07061 ug/m^3**

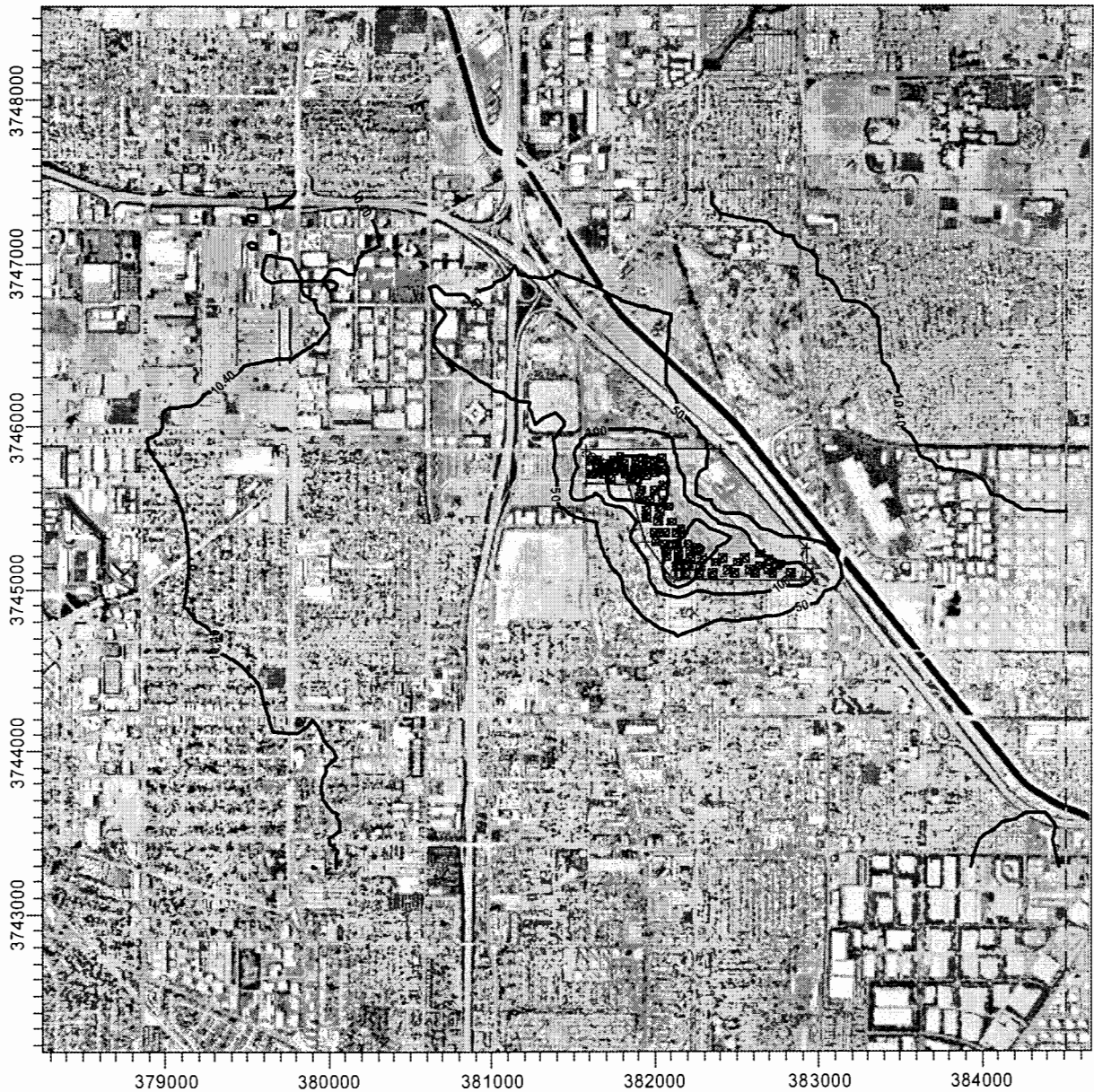
DATE:


**10/24/2005**

PROJECT NO.:

PROJECT TITLE:

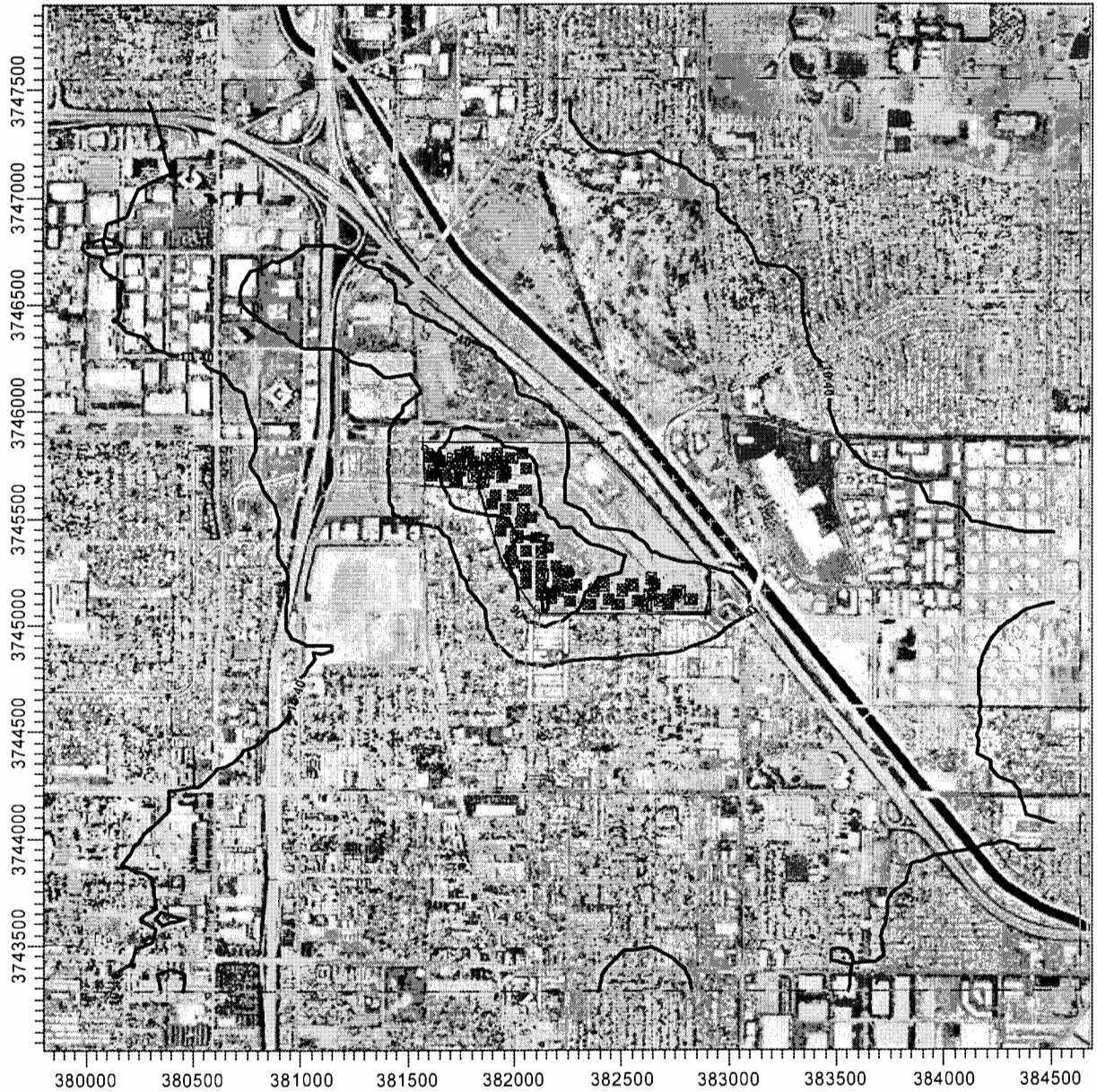
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COMMENTS:  Carson Marketplace Proposed RAP Scenario 1 (Site Grading Cells A1, A3, A5) 24-hr Max PM10 Fugitive + Exhaust (Unmitigated)	SOURCES:  <b>4</b>	COMPANY NAME:  <b>PCR Services Corporation</b>	
	RECEPTORS:  <b>578</b>	MODELER:  <b>Everest Yan</b>	
	OUTPUT TYPE:  <b>CONC</b>	SCALE: 1:39,102  0  1 km	
	MAX:  <b>215.81134 ug/m^3</b>	DATE:  <b>10/25/2005</b>	PROJECT NO.:

PROJECT TITLE:

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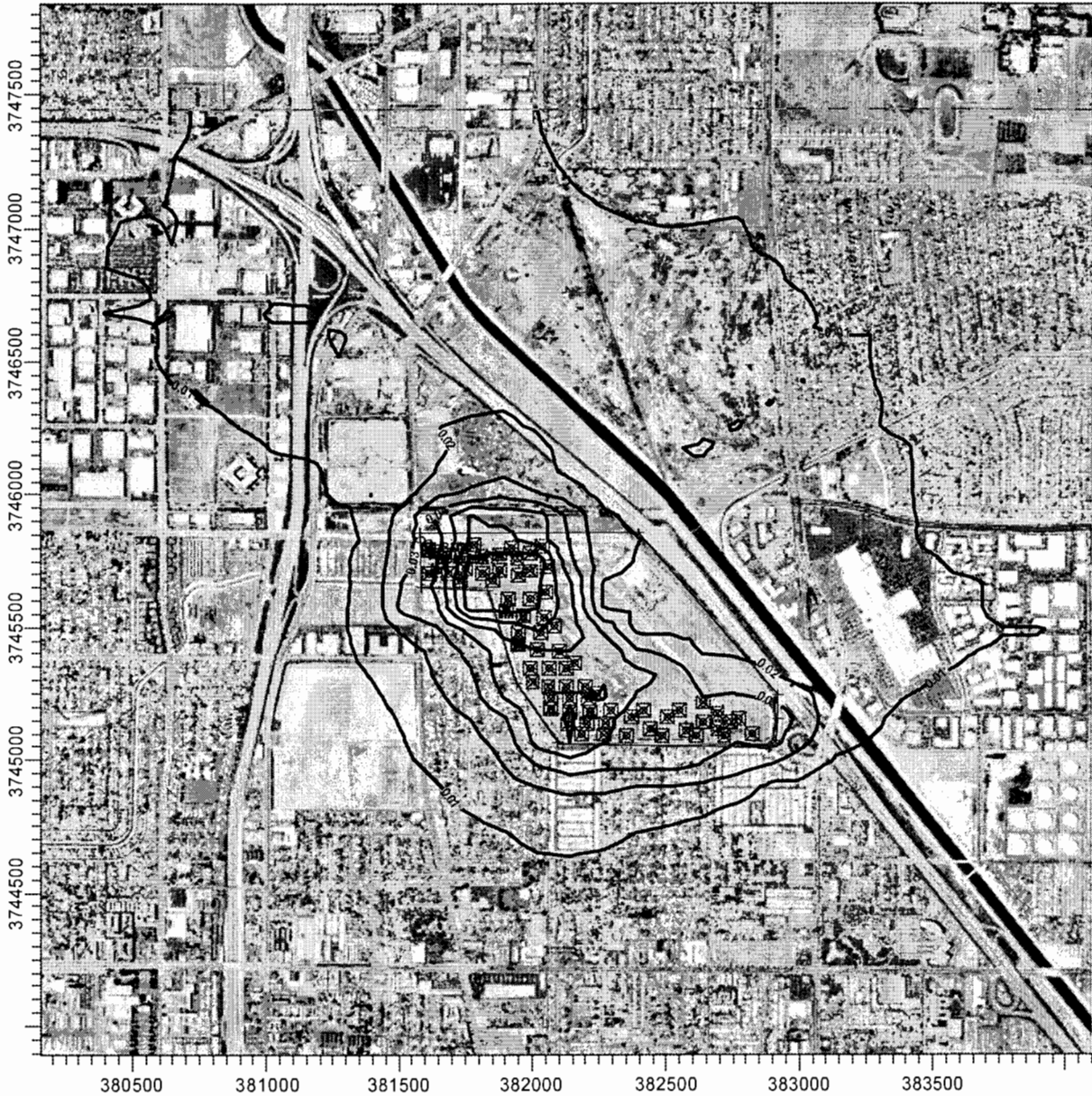


<p>COMMENTS:</p> <p>Carson Marketplace Proposed RAP Scenario 1 (Site Grading Cells A1, A3, A5) 24-hr PM10 Max Fugitive + Exhaust (Mitigated)</p>	<p>SOURCES:</p> <p><b>4</b></p>	<p>COMPANY NAME:</p> <p><b>PCR Services Corporation</b></p>	
	<p>RECEPTORS:</p> <p><b>578</b></p>	<p>MODELER:</p> <p><b>Everest Yan</b></p>	
	<p>OUTPUT TYPE:</p> <p><b>CONC</b></p>	<p>SCALE: 1:29,785</p> <p>0  1 km</p>	
	<p>MAX:</p> <p><b>146.91121 ug/m^3</b></p>	<p>DATE:</p> <p><b>10/25/2005</b></p>	<p>PROJECT NO.:</p>



PROJECT TITLE:

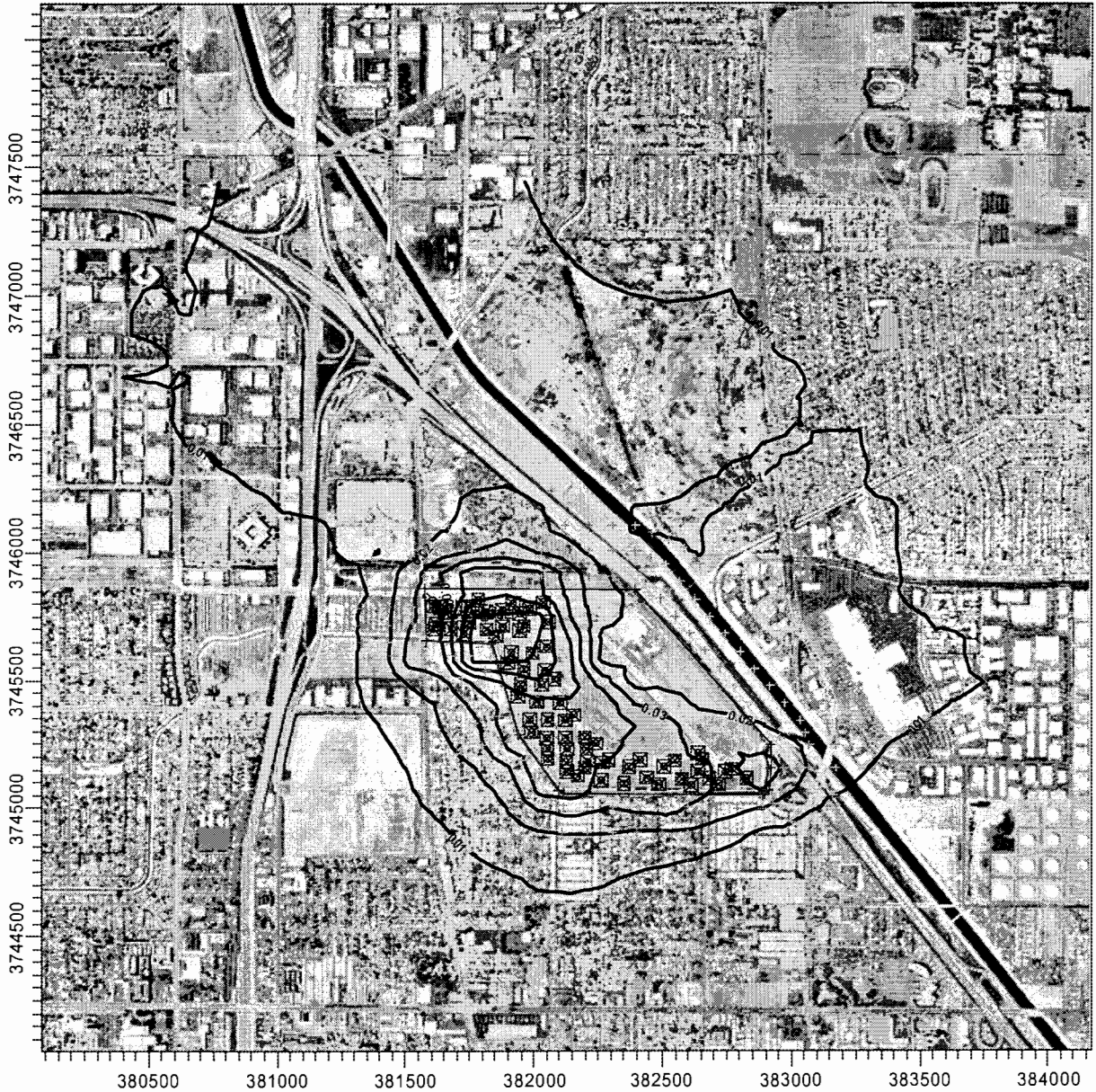
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<p>COMMENTS:</p> <p>Carson Marketplace Proposed RAP Scenario 1 (Site Grading Cells A1, A3, A5) Annual DPM Exhaust Only (Unmitigated)</p>	<p>SOURCES:</p> <p><b>4</b></p>	<p>COMPANY NAME:</p> <p><b>PCR Services Corporation</b></p>	
	<p>RECEPTORS:</p> <p><b>578</b></p>	<p>MODELER:</p> <p><b>Everest Yan</b></p>	
	<p>OUTPUT TYPE:</p> <p><b>CONC</b></p>	<p>SCALE: 1:24,073</p>	
	<p>MAX:</p> <p><b>0.07986 ug/m^3</b></p>	<p>DATE:</p> <p><b>10/25/2005</b></p>	<p>PROJECT NO.:</p>

PROJECT TITLE:

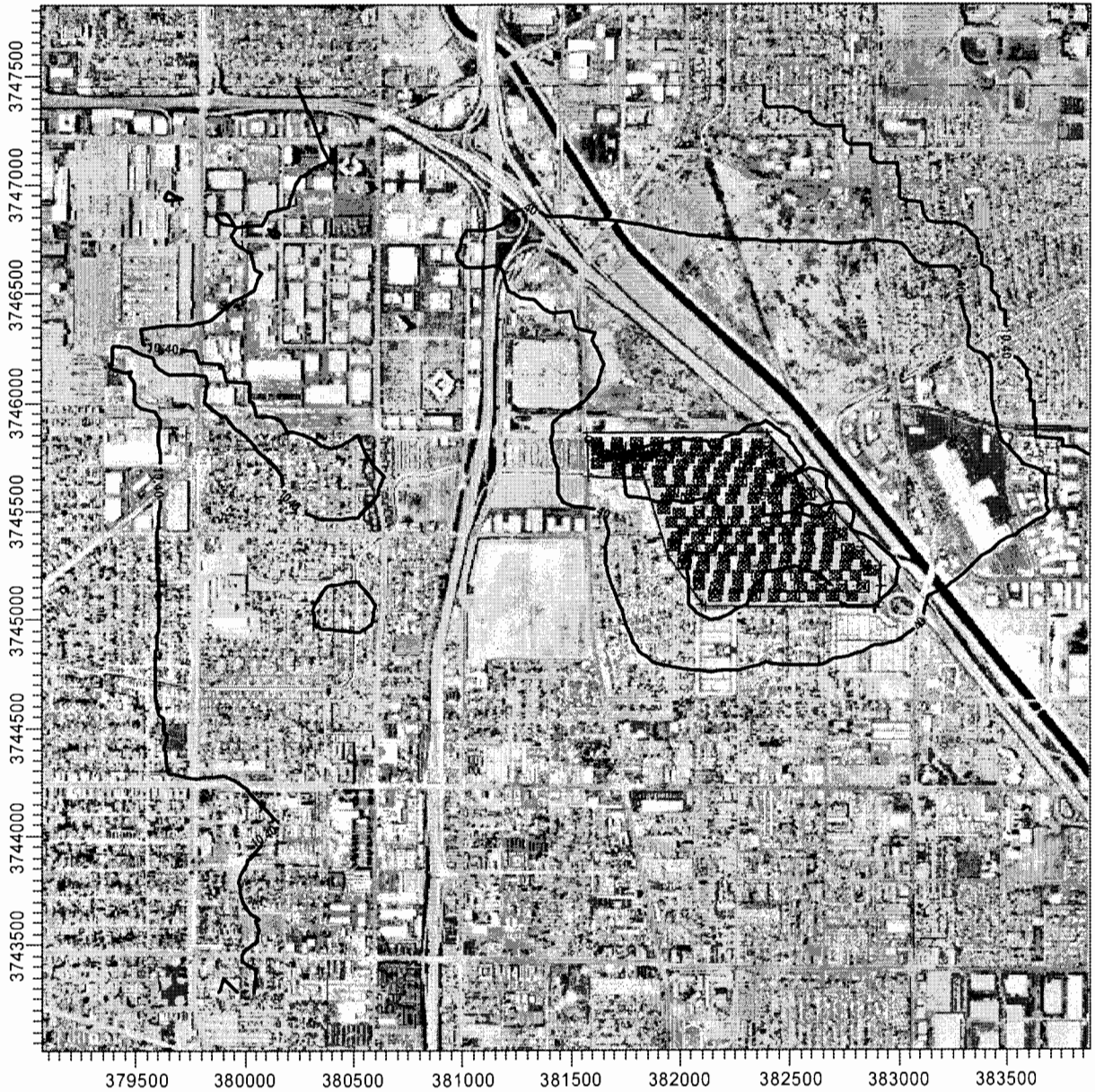
V:\AQNOISE DIVISION\Active Projects\Carson Stadium\ISC\Approved - Sc




COMMENTS: Carson Marketplace Proposed RAP Scenario 1 (Site Grading Cells A1, A3, A5) Annual DPM Exhaust Only (Mitigated)	SOURCES: <b>4</b>	COMPANY NAME: <b>PCR Services Corporation</b>	
	RECEPTORS: <b>578</b>	MODELER: <b>Everest Yan</b>	
	OUTPUT TYPE: <b>CONC</b>	SCALE: 1:24,903 	
	MAX: <b>0.07709 ug/m^3</b>	DATE: <b>10/25/2005</b>	PROJECT NO.:

PROJECT TITLE:

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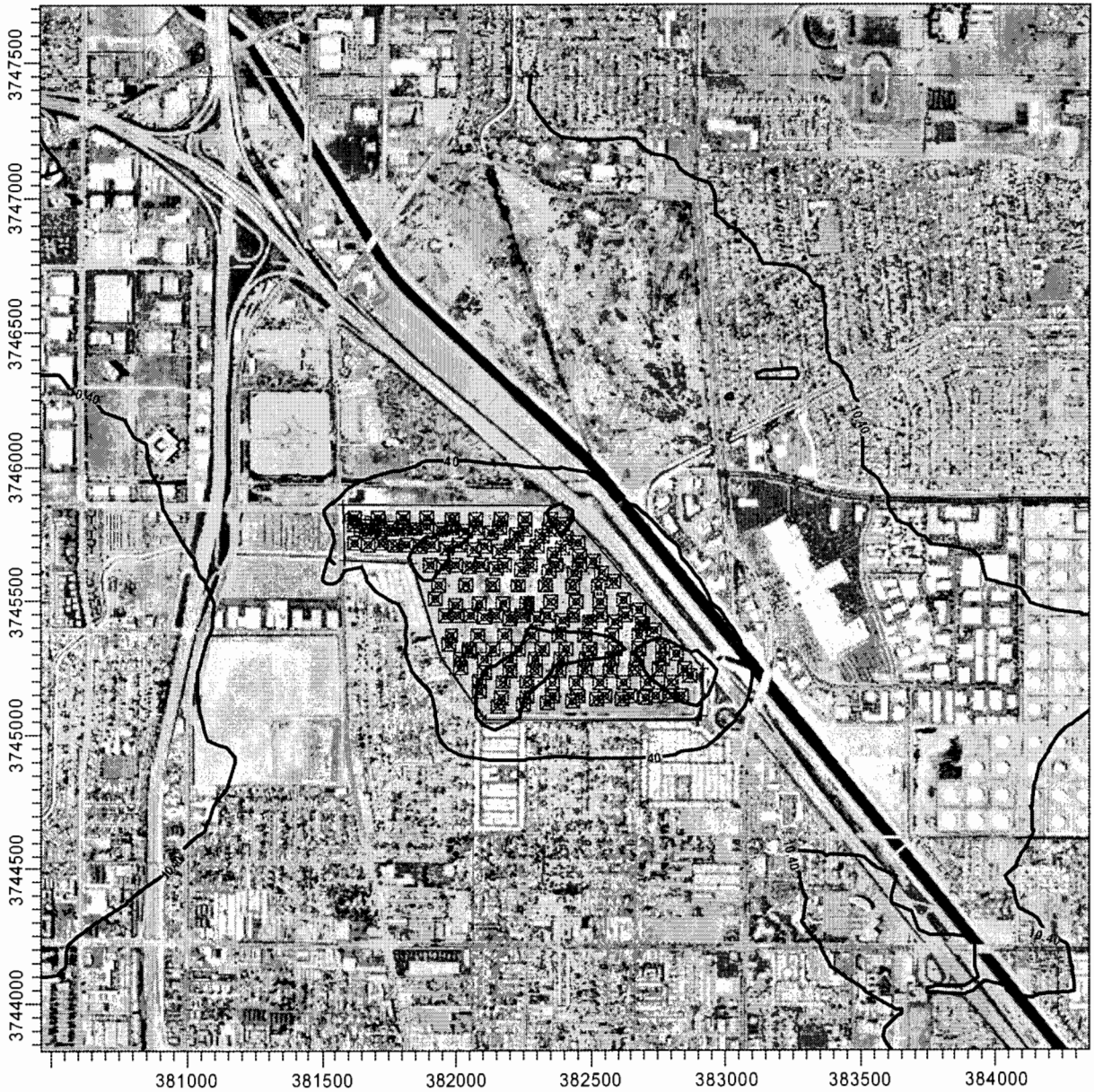



<p>COMMENTS:</p> <p>Carson Marketplace Proposed RAP Scenario 2 (Site Grading - Cells A1, A2, A3, A4, A5) 24-hr Max PM10 Fugitive + Exhaust (Unmitigated)</p>	<p>SOURCES:</p> <p><b>4</b></p>	<p>COMPANY NAME:</p> <p><b>PCR Services Corporation</b></p>	
	<p>RECEPTORS:</p> <p><b>578</b></p>	<p>MODELER:</p> <p><b>Everest Yan</b></p>	
	<p>OUTPUT TYPE:</p> <p><b>CONC</b></p>	<p>SCALE:</p> <p>1:29,326</p> <p>0  1 km</p>	
	<p>MAX:</p> <p><b>145.72635 ug/m^3</b></p>	<p>DATE:</p> <p><b>10/25/2005</b></p>	<p>PROJECT NO.:</p>



PROJECT TITLE:

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<p>COMMENTS:</p> <p>Carson Marketplace Proposed RAP Scenario 2 (Site Grading - Cells A1, A2, A3, A4, A5) 24-hr Max PM10 Fugitive + Exhaust (Mitigated)</p>	<p>SOURCES:</p> <p><b>4</b></p>	<p>COMPANY NAME:</p> <p><b>PCR Services Corporation</b></p>	
	<p>RECEPTORS:</p> <p><b>578</b></p>	<p>MODELER:</p> <p><b>Everest Yan</b></p>	
	<p>OUTPUT TYPE:</p> <p><b>CONC</b></p>	<p>SCALE: 1:23,711</p> <p>0  0.5 km</p>	
	<p>MAX:</p> <p><b>99.2207 ug/m^3</b></p>	<p>DATE:</p> <p><b>10/25/2005</b></p>	<p>PROJECT NO.:</p>

PROJECT TITLE:

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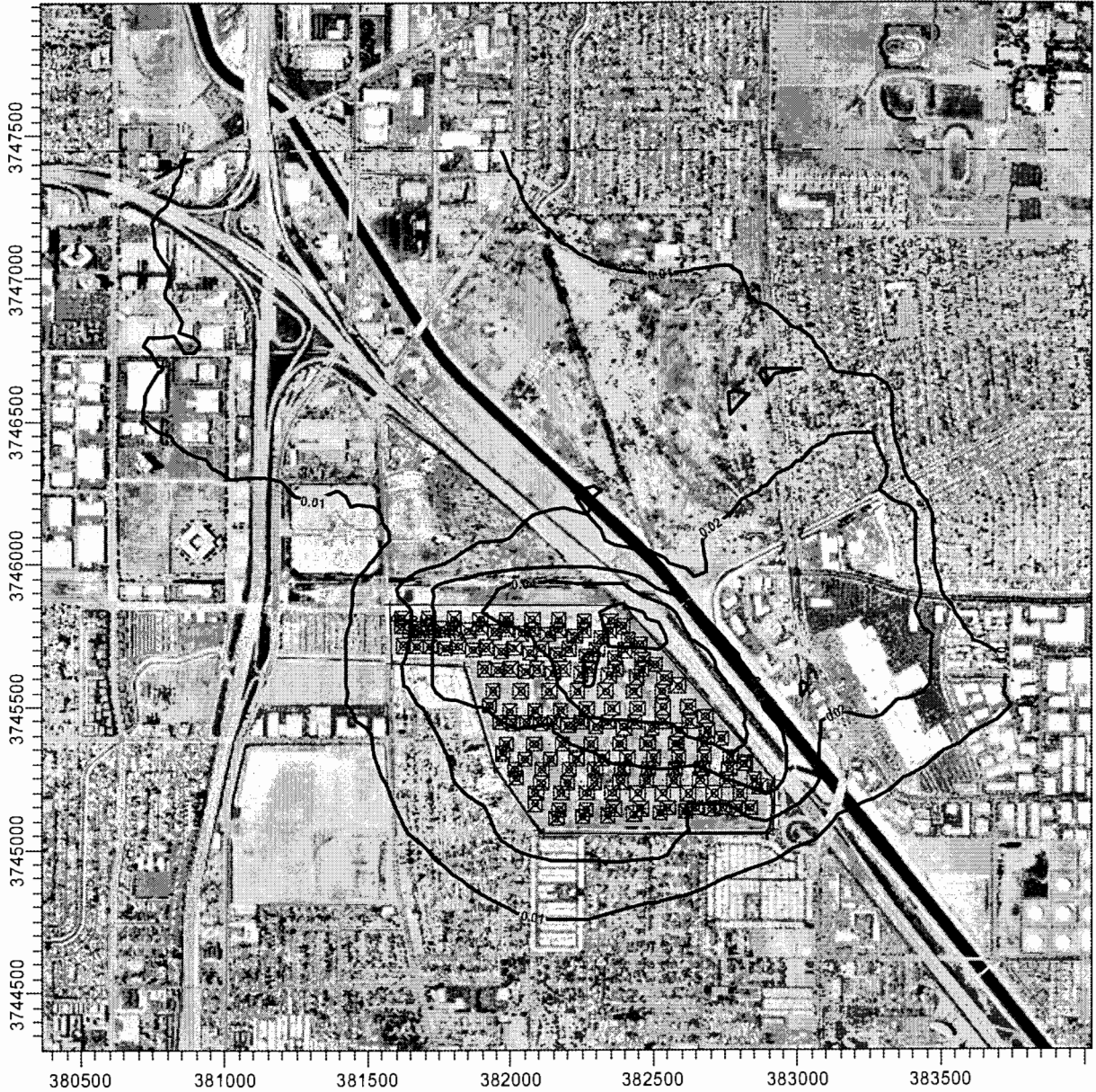



<p>COMMENTS:</p> <p>Carson Marketplace Proposed RAP Scenario 2 (Site Grading - Cells A1, A2, A3, A4, A5) Annual DPM Exhaust Only (Unmitigated)</p>	<p>SOURCES:</p> <p><b>4</b></p>	<p>COMPANY NAME:</p> <p><b>PCR Services Corporation</b></p>	
	<p>RECEPTORS:</p> <p><b>578</b></p>	<p>MODELER:</p> <p><b>Everest Yan</b></p>	
	<p>OUTPUT TYPE:</p> <p><b>CONC</b></p>	<p>SCALE: 1:21,451</p> <p>0  0.5 km</p>	
	<p>MAX:</p> <p><b>0.05873 ug/m^3</b></p>	<p>DATE:</p> <p><b>10/25/2005</b></p>	<p>PROJECT NO.:</p>



PROJECT TITLE:

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COMMENTS:  Carson Marketplace Proposed RAP Scenario 2 (Site Grading - Cells A1, A2, A3, A4, A5) Annual DPM Exhaust Only (Mitigated)	SOURCES:  <b>4</b>	COMPANY NAME:  <b>PCR Services Corporation</b>	
	RECEPTORS:  <b>578</b>	MODELER:  <b>Everest Yan</b>	
	OUTPUT TYPE:  <b>CONC</b>	SCALE: 1:22,325 0  0.5 km	
	MAX:  <b>0.05582 ug/m^3</b>	DATE:  <b>10/25/2005</b>	PROJECT NO.:

**Approved RAP - Scenario 1**

	Residential Receptors		School Receptors (Student)			School Receptors (Teacher)		
	South-West	South	Carson Elementary School (South)	Van Deene Elementary School (West)	Curtiss Middle School (North-East)	Carson Elementary School (South)	Van Deene Elementary School (West)	Curtiss Middle School (North-East)
	Diesel PM10 (ug/m3)	0.10	0.07	0.01	0.00	0.00	0.01	0.00
Cancer Slope Factor (mg/kg-day)-1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Inhalation Unit Risk (µg/cubic meter)-1	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003
<b>Cancer Risk</b>	<b>1.2E-06</b>	<b>8.5E-07</b>	<b>1.8E-07</b>	<b>0.0E+00</b>	<b>0.0E+00</b>	<b>4.6E-08</b>	<b>0.0E+00</b>	<b>0.0E+00</b>
Exceed?	No	No	No	No	No	No	No	No

**Approved RAP - Scenario 2**

	Residential Receptors		School Receptors (Student)			School Receptors (Teacher)		
	South-West	South	Carson Elementary School (South)	Van Deene Elementary School (West)	Curtiss Middle School (North-East)	Carson Elementary School (South)	Van Deene Elementary School (West)	Curtiss Middle School (North-East)
	Diesel PM10 (ug/m3)	0.05	0.03	0.01	0.00	0.00	0.01	0.00
Cancer Slope Factor (mg/kg-day)-1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Inhalation Unit Risk (µg/cubic meter)-1	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003
<b>Cancer Risk</b>	<b>8.1E-07</b>	<b>3.6E-07</b>	<b>1.8E-07</b>	<b>0.0E+00</b>	<b>0.0E+00</b>	<b>4.6E-08</b>	<b>0.0E+00</b>	<b>0.0E+00</b>
Exceed?	No	No	No	No	No	No	No	No

**RAP Refinements - Scenario 1**

	Residential Receptors		School Receptors (Student)			School Receptors (Teacher)		
	South-West	South	Carson Elementary School (South)	Van Deene Elementary School (West)	Curtiss Middle School (North-East)	Carson Elementary School (South)	Van Deene Elementary School (West)	Curtiss Middle School (North-East)
	Diesel PM10 (ug/m3)	0.08	0.05	0.01	0.00	0.00	0.01	0.00
Cancer Slope Factor (mg/kg-day)-1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Inhalation Unit Risk (µg/cubic meter)-1	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003
<b>Cancer Risk</b>	<b>9.7E-07</b>	<b>6.1E-07</b>	<b>1.8E-07</b>	<b>0.0E+00</b>	<b>0.0E+00</b>	<b>4.6E-08</b>	<b>0.0E+00</b>	<b>0.0E+00</b>
Exceed?	No	No	No	No	No	No	No	No

**RAP Refinements - Scenario 2**

	Residential Receptors		School Receptors (Student)			School Receptors (Teacher)		
	South-West	South	Carson Elementary School (South)	Van Deene Elementary School (West)	Curtiss Middle School (North-East)	Carson Elementary School (South)	Van Deene Elementary School (West)	Curtiss Middle School (North-East)
	Diesel PM10 (ug/m3)	0.04	0.03	0.01	0.00	0.00	0.01	0.00
Cancer Slope Factor (mg/kg-day)-1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Inhalation Unit Risk (µg/cubic meter)-1	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003
<b>Cancer Risk</b>	<b>4.9E-07</b>	<b>3.6E-07</b>	<b>1.8E-07</b>	<b>0.0E+00</b>	<b>0.0E+00</b>	<b>4.6E-08</b>	<b>0.0E+00</b>	<b>0.0E+00</b>
Exceed?	No	No	No	No	No	No	No	No

**Risk Calculation Assumptions (Off-site Residential)**

Breathing Rate (L per Kg Body Weight per day)	271
Exposure Factor (days per year) - 5 days/week	260
Exposure Duration (years)	4
Averaging Time (days) - 70 years x 365 days/year	25550

**Risk Calculation Assumptions (School - 13 years)**

Breathing Rate (L per Kg Body Weight per day)	581
Exposure Factor (days per year)	180
Exposure Duration (years)	4
Averaging Time (days) - 70 years x 365 days/year	25550

**Risk Calculation Assumptions (Teacher - 30 years)**

Breathing Rate (L per Kg Body Weight per day)	149
Exposure Factor (days per year)	180
Exposure Duration (years)	4
Averaging Time (days) - 70 years x 365 days/year	25550

**Approved RAP - Scenario 1**

	Residential Receptors		School Receptors		
			Carson Elementary School (South)	Van Deene Elementary School (West)	Curtiss Middle School (North-East)
	South-West	South			
Diesel PM10 (ug/m3)	0.1	0.1	0.0	0.0	0.0
Chronic Inhalation REL (ug/m3)	5	5	5	5	5
<b>Chronic Hazard Quotient</b>	<b>2.0E-02</b>	<b>1.4E-02</b>	<b>2.0E-03</b>	<b>0.0E+00</b>	<b>0.0E+00</b>
Potential Chronic Risk?	No	No	No	No	No

**Approved RAP - Scenario 2**

	Residential Receptors		School Receptors		
			Carson Elementary School (South)	Van Deene Elementary School (West)	Curtiss Middle School (North-East)
	South-West	South			
Diesel PM10 (ug/m3)	0.1	0.0	0.0	0.0	0.0
Chronic Inhalation REL (ug/m3)	5	5	5	5	5
<b>Chronic Hazard Quotient</b>	<b>1.0E-02</b>	<b>6.0E-03</b>	<b>2.0E-03</b>	<b>0.0E+00</b>	<b>0.0E+00</b>
Potential Chronic Risk?	No	No	No	No	No

**RAP Refinements - Scenario 1**

	Residential Receptors		School Receptors		
			Carson Elementary School (South)	Van Deene Elementary School (West)	Curtiss Middle School (North-East)
	South-West	South			
Diesel PM10 (ug/m3)	0.1	0.1	0.0	0.0	0.0
Chronic Inhalation REL (ug/m3)	5	5	5	5	5
<b>Chronic Hazard Quotient</b>	<b>1.6E-02</b>	<b>1.0E-02</b>	<b>2.0E-03</b>	<b>0.0E+00</b>	<b>0.0E+00</b>
Potential Chronic Risk?	No	No	No	No	No

**RAP Refinements - Scenario 2**

	Residential Receptors		School Receptors		
			Carson Elementary School (South)	Van Deene Elementary School (West)	Curtiss Middle School (North-East)
	South-West	South			
Diesel PM10 (ug/m3)	0.0	0.0	0.0	0.0	0.0
Chronic Inhalation REL (ug/m3)	5	5	5	5	5
<b>Chronic Hazard Quotient</b>	<b>8.0E-03</b>	<b>6.0E-03</b>	<b>2.0E-03</b>	<b>0.0E+00</b>	<b>0.0E+00</b>
Potential Chronic Risk?	No	No	No	No	No

Carson Marketplace  
Diesel Particulate Health Risk Summary (Cancer Risk)

**Approved RAP - Scenario 1**

	Residential Receptors		School Receptors (Student)			School Receptors (Teacher)		
	South-West	South	Carson Elementary School (South)	Van Deene Elementary School (West)	Curtiss Middle School (North-East)	Carson Elementary School (South)	Van Deene Elementary School (West)	Curtiss Middle School (North-East)
Diesel PM10 (ug/m3)	0.09	0.07	0.01	0.00	0.00	0.01	0.00	0.00
Cancer Slope Factor (mg/kg-day)-1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Inhalation Unit Risk (ug/cubic meter)-1	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003
Cancer Risk	1.1E-06	8.5E-07	1.8E-07	0.0E+00	0.0E+00	4.6E-08	0.0E+00	0.0E+00
Exceed?	No	No	No	No	No	No	No	No

**Approved RAP - Scenario 2**

	Residential Receptors		School Receptors (Student)			School Receptors (Teacher)		
	South-West	South	Carson Elementary School (South)	Van Deene Elementary School (West)	Curtiss Middle School (North-East)	Carson Elementary School (South)	Van Deene Elementary School (West)	Curtiss Middle School (North-East)
Diesel PM10 (ug/m3)	0.05	0.03	0.01	0.00	0.00	0.01	0.00	0.00
Cancer Slope Factor (mg/kg-day)-1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Inhalation Unit Risk (ug/cubic meter)-1	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003
Cancer Risk	6.1E-07	3.6E-07	1.8E-07	0.0E+00	0.0E+00	4.6E-08	0.0E+00	0.0E+00
Exceed?	No	No	No	No	No	No	No	No

**RAP Refinements - Scenario 1**

	Residential Receptors		School Receptors (Student)			School Receptors (Teacher)		
	South-West	South	Carson Elementary School (South)	Van Deene Elementary School (West)	Curtiss Middle School (North-East)	Carson Elementary School (South)	Van Deene Elementary School (West)	Curtiss Middle School (North-East)
Diesel PM10 (ug/m3)	0.07	0.05	0.01	0.00	0.00	0.01	0.00	0.00
Cancer Slope Factor (mg/kg-day)-1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Inhalation Unit Risk (ug/cubic meter)-1	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003
Cancer Risk	8.5E-07	6.1E-07	1.8E-07	0.0E+00	0.0E+00	4.6E-08	0.0E+00	0.0E+00
Exceed?	No	No	No	No	No	No	No	No

**RAP Refinements - Scenario 2**

	Residential Receptors		School Receptors (Student)			School Receptors (Teacher)		
	South-West	South	Carson Elementary School (South)	Van Deene Elementary School (West)	Curtiss Middle School (North-East)	Carson Elementary School (South)	Van Deene Elementary School (West)	Curtiss Middle School (North-East)
Diesel PM10 (ug/m3)	0.04	0.03	0.00	0.00	0.00	0.00	0.00	0.00
Cancer Slope Factor (mg/kg-day)-1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Inhalation Unit Risk (ug/cubic meter)-1	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003
Cancer Risk	4.9E-07	3.6E-07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Exceed?	No	No	No	No	No	No	No	No

**Risk Calculation Assumptions (Off-site Residential)**

Breathing Rate (L per Kg Body Weight per day)	271
Exposure Factor (days per year) - 5 days/week	260
Exposure Duration (years)	4
Averaging Time (days) - 70 years x 365 days/year	25550

**Risk Calculation Assumptions (School - 13 years)**

Breathing Rate (L per Kg Body Weight per day)	581
Exposure Factor (days per year)	180
Exposure Duration (years)	4
Averaging Time (days) - 70 years x 365 days/year	25550

**Risk Calculation Assumptions (Teacher - 30 years)**

Breathing Rate (L per Kg Body Weight per day)	149
Exposure Factor (days per year)	180
Exposure Duration (years)	4
Averaging Time (days) - 70 years x 365 days/year	25550

Carson Marketplace  
Diesel Particulate Health Risk Summary (Chronic Risk)

**Approved RAP - Scenario 1**

	Residential Receptors		School Receptors		
			Carson Elementary School (South)	Van Deene Elementary School (West)	Curtiss Middle School (North-East)
	South-West	South			
Diesel PM10 (ug/m3)	0.1	0.1	0.0	0.0	0.0
Chronic Inhalation REL (ug/m3)	5	5	5	5	5
Chronic Hazard Quotient	2.0E-02	1.4E-02	2.0E-03	0.0E+00	0.0E+00
Potential Chronic Risk?	No	No	No	No	No

**Approved RAP - Scenario 2**

	Residential Receptors		School Receptors		
			Carson Elementary School (South)	Van Deene Elementary School (West)	Curtiss Middle School (North-East)
	South-West	South			
Diesel PM10 (ug/m3)	0.1	0.0	0.0	0.0	0.0
Chronic Inhalation REL (ug/m3)	5	5	5	5	5
Chronic Hazard Quotient	1.0E-02	6.0E-03	2.0E-03	0.0E+00	0.0E+00
Potential Chronic Risk?	No	No	No	No	No

**RAP Refinements - Scenario 1**

	Residential Receptors		School Receptors		
			Carson Elementary School (South)	Van Deene Elementary School (West)	Curtiss Middle School (North-East)
	South-West	South			
Diesel PM10 (ug/m3)	0.1	0.1	0.0	0.0	0.0
Chronic Inhalation REL (ug/m3)	5	5	5	5	5
Chronic Hazard Quotient	1.6E-02	1.0E-02	2.0E-03	0.0E+00	0.0E+00
Potential Chronic Risk?	No	No	No	No	No

**RAP Refinements - Scenario 2**

	Residential Receptors		School Receptors		
			Carson Elementary School (South)	Van Deene Elementary School (West)	Curtiss Middle School (North-East)
	South-West	South			
Diesel PM10 (ug/m3)	0.0	0.0	0.0	0.0	0.0
Chronic Inhalation REL (ug/m3)	5	5	5	5	5
Chronic Hazard Quotient	8.0E-03	6.0E-03	2.0E-03	0.0E+00	0.0E+00
Potential Chronic Risk?	No	No	No	No	No

# Appendix F-2

- SCAQMD Rule 403 (Fugitive Dust) Control Requirements

(Adopted May 7, 1976) (Amended November 6, 1992)  
(Amended July 9, 1993) (Amended February 14, 1997)  
(Amended December 11, 1998)(Amended April 2, 2004)

**RULE 403. FUGITIVE DUST**

(a) Purpose

The purpose of this Rule is to reduce the amount of particulate matter entrained in the ambient air as a result of anthropogenic (man-made) fugitive dust sources by requiring actions to prevent, reduce or mitigate fugitive dust emissions.

(b) Applicability

The provisions of this Rule shall apply to any activity or man-made condition capable of generating fugitive dust.

(c) Definitions

- (1) ACTIVE OPERATIONS means any source capable of generating fugitive dust, including, but not limited to, earth-moving activities, construction/demolition activities, disturbed surface area, or heavy- and light-duty vehicular movement.
- (2) AGGREGATE-RELATED PLANTS are defined as facilities that produce and / or mix sand and gravel and crushed stone.
- (3) AGRICULTURAL HANDBOOK means the region-specific guidance document that has been approved by the Governing Board or hereafter approved by the Executive Officer and the U.S. EPA. For the South Coast Air Basin, the Board-approved region-specific guidance document is the Rule 403 Agricultural Handbook dated December 1998. For the Coachella Valley, the Board-approved region-specific guidance document is the Rule 403 Coachella Valley Agricultural Handbook dated April 2, 2004.
- (4) ANEMOMETERS are devices used to measure wind speed and direction in accordance with the performance standards, and maintenance and calibration criteria as contained in the most recent Rule 403 Implementation Handbook.
- (5) BEST AVAILABLE CONTROL MEASURES means fugitive dust control actions that are set forth in Table 1 of this Rule.

- (6) BULK MATERIAL is sand, gravel, soil, aggregate material less than two inches in length or diameter, and other organic or inorganic particulate matter.
- (7) CEMENT MANUFACTURING FACILITY is any facility that has a cement kiln at the facility.
- (8) CHEMICAL STABILIZERS are any non-toxic chemical dust suppressant which must not be used if prohibited for use by the Regional Water Quality Control Boards, the California Air Resources Board, the U.S. Environmental Protection Agency (U.S. EPA), or any applicable law, rule or regulation. The chemical stabilizers shall meet any specifications, criteria, or tests required by any federal, state, or local water agency. Unless otherwise indicated, the use of a non-toxic chemical stabilizer shall be of sufficient concentration and application frequency to maintain a stabilized surface.
- (9) CONSTRUCTION/DEMOLITION ACTIVITIES means any on-site mechanical activities conducted in preparation of, or related to, the building, alteration, rehabilitation, demolition or improvement of property, including, but not limited to the following activities: grading, excavation, loading, crushing, cutting, planing, shaping or ground breaking.
- (10) CONTRACTOR means any person who has a contractual arrangement to conduct an active operation for another person.
- (11) DISTURBED SURFACE AREA means a portion of the earth's surface which has been physically moved, uncovered, destabilized, or otherwise modified from its undisturbed natural soil condition, thereby increasing the potential for emission of fugitive dust. This definition excludes those areas which have:
  - (A) been restored to a natural state, such that the vegetative ground cover and soil characteristics are similar to adjacent or nearby natural conditions;
  - (B) been paved or otherwise covered by a permanent structure; or
  - (C) sustained a vegetative ground cover of at least 70 percent of the native cover for a particular area for at least 30 days.
- (12) DUST SUPPRESSANTS are water, hygroscopic materials, or non-toxic chemical stabilizers used as a treatment material to reduce fugitive dust emissions.



- (13) EARTH-MOVING ACTIVITIES means the use of any equipment for any activity where soil is being moved or uncovered, and shall include, but not be limited to the following: grading, earth cutting and filling operations, loading or unloading of dirt or bulk materials, adding to or removing from open storage piles of bulk materials, landfill operations, weed abatement through disking, and soil mulching.
- (14) DUST CONTROL SUPERVISOR means a person with the authority to expeditiously employ sufficient dust mitigation measures to ensure compliance with all Rule 403 requirements at an active operation.
- (15) FUGITIVE DUST means any solid particulate matter that becomes airborne, other than that emitted from an exhaust stack, directly or indirectly as a result of the activities of any person.
- (16) HIGH WIND CONDITIONS means that instantaneous wind speeds exceed 25 miles per hour.
- (17) INACTIVE DISTURBED SURFACE AREA means any disturbed surface area upon which active operations have not occurred or are not expected to occur for a period of 20 consecutive days.
- (18) LARGE OPERATIONS means any active operations on property which contains 50 or more acres of disturbed surface area; or any earth-moving operation with a daily earth-moving or throughput volume of 3,850 cubic meters (5,000 cubic yards) or more three times during the most recent 365-day period.
- (19) OPEN STORAGE PILE is any accumulation of bulk material, which is not fully enclosed, covered or chemically stabilized, and which attains a height of three feet or more and a total surface area of 150 or more square feet.
- (20) PARTICULATE MATTER means any material, except uncombined water, which exists in a finely divided form as a liquid or solid at standard conditions.
- (21) PAVED ROAD means a public or private improved street, highway, alley, public way, or easement that is covered by typical roadway materials, but excluding access roadways that connect a facility with a public paved roadway and are not open to through traffic. Public paved roads are those open to public access and that are owned by any federal, state, county, municipal or any other governmental or quasi-governmental agencies. Private paved roads are any paved roads not defined as public.

- (22) PM<sub>10</sub> means particulate matter with an aerodynamic diameter smaller than or equal to 10 microns as measured by the applicable State and Federal reference test methods.
- (23) PROPERTY LINE means the boundaries of an area in which either a person causing the emission or a person allowing the emission has the legal use or possession of the property. Where such property is divided into one or more sub-tenancies, the property line(s) shall refer to the boundaries dividing the areas of all sub-tenancies.
- (24) RULE 403 IMPLEMENTATION HANDBOOK means a guidance document that has been approved by the Governing Board on April 2, 2004 or hereafter approved by the Executive Officer and the U.S. EPA.
- (25) SERVICE ROADS are paved or unpaved roads that are used by one or more public agencies for inspection or maintenance of infrastructure and which are not typically used for construction-related activity.
- (26) SIMULTANEOUS SAMPLING means the operation of two PM<sub>10</sub> samplers in such a manner that one sampler is started within five minutes of the other, and each sampler is operated for a consecutive period which must be not less than 290 minutes and not more than 310 minutes.
- (27) SOUTH COAST AIR BASIN means the non-desert portions of Los Angeles, Riverside, and San Bernardino counties and all of Orange County as defined in California Code of Regulations, Title 17, Section 60104. The area is bounded on the west by the Pacific Ocean, on the north and east by the San Gabriel, San Bernardino, and San Jacinto Mountains, and on the south by the San Diego county line.
- (28) STABILIZED SURFACE means any previously disturbed surface area or open storage pile which, through the application of dust suppressants, shows visual or other evidence of surface crusting and is resistant to wind-driven fugitive dust and is demonstrated to be stabilized. Stabilization can be demonstrated by one or more of the applicable test methods contained in the Rule 403 Implementation Handbook.
- (29) TRACK-OUT means any bulk material that adheres to and agglomerates on the exterior surface of motor vehicles, haul trucks, and equipment (including tires) that have been released onto a paved road and can be removed by a vacuum sweeper or a broom sweeper under normal operating conditions.

- (30) TYPICAL ROADWAY MATERIALS means concrete, asphaltic concrete, recycled asphalt, asphalt, or any other material of equivalent performance as determined by the Executive Officer, and the U.S. EPA.
  - (31) UNPAVED ROADS means any unsealed or unpaved roads, equipment paths, or travel ways that are not covered by typical roadway materials. Public unpaved roads are any unpaved roadway owned by federal, state, county, municipal or other governmental or quasi-governmental agencies. Private unpaved roads are all other unpaved roadways not defined as public.
  - (32) VISIBLE ROADWAY DUST means any sand, soil, dirt, or other solid particulate matter which is visible upon paved road surfaces and which can be removed by a vacuum sweeper or a broom sweeper under normal operating conditions.
  - (33) WIND-DRIVEN FUGITIVE DUST means visible emissions from any disturbed surface area which is generated by wind action alone.
  - (34) WIND GUST is the maximum instantaneous wind speed as measured by an anemometer.
- (d) Requirements
- (1) No person shall cause or allow the emissions of fugitive dust from any active operation, open storage pile, or disturbed surface area such that:
    - (A) the dust remains visible in the atmosphere beyond the property line of the emission source; or
    - (B) the dust emission exceeds 20 percent opacity (as determined by the appropriate test method included in the Rule 403 Implementation Handbook), if the dust emission is the result of movement of a motorized vehicle.
  - (2) No person shall conduct active operations without utilizing the applicable best available control measures included in Table 1 of this Rule to minimize fugitive dust emissions from each fugitive dust source type within the active operation.
  - (3) No person shall cause or allow PM<sub>10</sub> levels to exceed 50 micrograms per cubic meter when determined, by simultaneous sampling, as the difference between upwind and downwind samples collected on high-volume particulate matter samplers or other U.S. EPA-approved equivalent

method for PM<sub>10</sub> monitoring. If sampling is conducted, samplers shall be:

- (A) Operated, maintained, and calibrated in accordance with 40 Code of Federal Regulations (CFR), Part 50, Appendix J, or appropriate U.S. EPA-published documents for U.S. EPA-approved equivalent method(s) for PM<sub>10</sub>.
  - (B) Reasonably placed upwind and downwind of key activity areas and as close to the property line as feasible, such that other sources of fugitive dust between the sampler and the property line are minimized.
- (4) No person shall allow track-out to extend 25 feet or more in cumulative length from the point of origin from an active operation. Notwithstanding the preceding, all track-out from an active operation shall be removed at the conclusion of each workday or evening shift.
- (5) After January 1, 2005, no person shall conduct an active operation with a disturbed surface area of five or more acres, or with a daily import or export of 100 cubic yards or more of bulk material without utilizing at least one of the measures listed in subparagraphs (d)(5)(A) through (d)(5)(E) at each vehicle egress from the site to a paved public road.
- (A) Install a pad consisting of washed gravel (minimum-size: one inch) maintained in a clean condition to a depth of at least six inches and extending at least 30 feet wide and at least 50 feet long.
  - (B) Pave the surface extending at least 100 feet and at least 20 feet wide.
  - (C) Utilize a wheel shaker/wheel spreading device consisting of raised dividers (rails, pipe, or grates) at least 24 feet long and 10 feet wide to remove bulk material from tires and vehicle undercarriages before vehicles exit the site.
  - (D) Install and utilize a wheel washing system to remove bulk material from tires and vehicle undercarriages before vehicles exit the site.
  - (E) Any other control measures approved by the Executive Officer and the U.S. EPA as equivalent to the actions specified in subparagraphs (d)(5)(A) through (d)(5)(D).

(e) Additional Requirements for Large Operations

- (1) Any person who conducts or authorizes the conducting of a large operation subject to this Rule shall implement the applicable actions specified in Table 2 of this Rule at all times and shall implement the applicable actions specified in Table 3 of this Rule when the applicable performance standards can not be met through use of Table 2 actions; and shall:
  - (A) submit a fully executed Large Operation Notification (Form 403 N) to the Executive Officer within 7 days of qualifying as a large operation;
  - (B) include, as part of the notification, the name(s), address(es), and phone number(s) of the person(s) responsible for the submittal, and a description of the operation(s), including a map depicting the location of the site;
  - (C) maintain daily records to document the specific dust control actions taken, maintain such records for a period of not less than three years; and make such records available to the Executive Officer upon request;
  - (D) after January 1, 2005, install and maintain project signage with project contact signage that meets the minimum standards of the Rule 403 Implementation Handbook, prior to initiating any earthmoving activities;
  - (E) after January 1, 2005, identify a dust control supervisor that:
    - (i) is employed by or contracted with the property owner or developer;
    - (ii) is on the site or available on-site within 30 minutes during working hours;
    - (iii) has the authority to expeditiously employ sufficient dust mitigation measures to ensure compliance with all Rule requirements;
    - (iv) has completed the AQMD Fugitive Dust Control Class and has been issued a valid Certificate of Completion for the class; and
  - (F) notify the Executive Officer in writing within 30 days after the site no longer qualifies as a large operation as defined by paragraph (c)(18).

(2) Any Large Operation Notification submitted to the Executive Officer or AQMD-approved dust control plan shall be valid for a period of one year from the date of written acceptance by the Executive Officer. Any Large Operation Notification accepted pursuant to paragraph (e)(1), excluding those submitted by aggregate-related plants and cement manufacturing facilities must be resubmitted annually by the person who conducts or authorizes the conducting of a large operation, at least 30 days prior to the expiration date, or the submittal shall no longer be valid as of the expiration date. If all fugitive dust sources and corresponding control measures or special circumstances remain identical to those identified in the previously accepted submittal or in an AQMD-approved dust control plan, the resubmittal may be a simple statement of no-change (Form 403NC).

(f) **Compliance Schedule**

The newly amended provisions of this Rule shall become effective upon adoption. Pursuant to subdivision (e), any existing site that qualifies as a large operation will have 60 days from the date of Rule adoption to comply with the notification and recordkeeping requirements for large operations. Any Large Operation Notification or AQMD-approved dust control plan which has been accepted prior to the date of adoption of these amendments shall remain in effect and the Large Operation Notification or AQMD-approved dust control plan annual resubmittal date shall be one year from adoption of this Rule amendment.

(g) **Exemptions**

(1) The provisions of this Rule shall not apply to:

(A) Agricultural operations directly related to the raising of fowls or animals and agricultural operations, provided that the combined disturbed surface area within one continuous property line and not separated by a paved public road is 10 acres or less.

(B) Agricultural operations within the South Coast Air Basin, whose combined disturbed surface area includes more than 10 acres provided that the person responsible for such operations:

(i) voluntarily implements the conservation practices contained in the Rule 403 Agricultural Handbook;

- (ii) completes and maintains the self-monitoring form documenting sufficient conservation practices, as described in the Rule 403 Agricultural Handbook; and
  - (iii) makes the completed self-monitoring form available to the Executive Officer upon request.
- (C) Agricultural operations outside the South Coast Air Basin, until January 1, 2005, whose combined disturbed surface area includes more than 10 acres provided that the person responsible for such operations:
  - (i) voluntarily implements the conservation practices contained in the Rule 403 Coachella Valley Agricultural Handbook; and
  - (ii) completes and maintains the self-monitoring form documenting sufficient conservation practices, as described in the Rule 403 Coachella Valley Agricultural Handbook; and
  - (iii) makes the completed self-monitoring form available to the Executive Officer upon request.
- (D) Active operations conducted during emergency life-threatening situations, or in conjunction with any officially declared disaster or state of emergency.
- (E) Active operations conducted by essential service utilities to provide electricity, natural gas, telephone, water and sewer during periods of service outages and emergency disruptions.
- (F) Any contractor subsequent to the time the contract ends, provided that such contractor implemented the required control measures during the contractual period.
- (G) Any grading contractor, for a phase of active operations, subsequent to the contractual completion of that phase of earth-moving activities, provided that the required control measures have been implemented during the entire phase of earth-moving activities, through and including five days after the final grading inspection.
- (H) Weed abatement operations ordered by a county agricultural commissioner or any state, county, or municipal fire department, provided that:

- (i) mowing, cutting or other similar process is used which maintains weed stubble at least three inches above the soil; and
  - (ii) any discing or similar operation which cuts into and disturbs the soil, where watering is used prior to initiation of these activities and a determination is made by the agency issuing the weed abatement order that, due to fire hazard conditions, rocks, or other physical obstructions, it is not practical to meet the conditions specified in clause (g)(1)(H)(i). The provisions this clause shall not exempt the owner of any property from stabilizing, in accordance with paragraph (d)(2), disturbed surface areas which have been created as a result of the weed abatement actions.
- (I) sandblasting operations.
- (2) The provisions of paragraphs (d)(1) and (d)(3) shall not apply:
- (A) When wind gusts exceed 25 miles per hour, provided that:
    - (i) The required Table 3 contingency measures in this Rule are implemented for each applicable fugitive dust source type, and;
    - (ii) records are maintained in accordance with subparagraph (e)(1)(C).
  - (B) To unpaved roads, provided such roads:
    - (i) are used solely for the maintenance of wind-generating equipment; or
    - (ii) are unpaved public alleys as defined in Rule 1186; or
    - (iii) are service roads that meet all of the following criteria:
      - (a) are less than 50 feet in width at all points along the road;
      - (b) are within 25 feet of the property line; and
      - (c) have a traffic volume less than 20 vehicle-trips per day.
  - (C) To any active operation, open storage pile, or disturbed surface area for which necessary fugitive dust preventive or mitigative actions are in conflict with the federal Endangered Species Act, as determined in writing by the State or federal agency responsible for making such determinations.



- (3) The provisions of (d)(2) shall not apply to any aggregate-related plant or cement manufacturing facility that implements the applicable actions specified in Table 2 of this Rule at all times and shall implement the applicable actions specified in Table 3 of this Rule when the applicable performance standards of paragraphs (d)(1) and (d)(3) can not be met through use of Table 2 actions.
- (4) The provisions of paragraphs (d)(1), (d)(2), and (d)(3) shall not apply to:
  - (A) Blasting operations which have been permitted by the California Division of Industrial Safety; and
  - (B) Motion picture, television, and video production activities when dust emissions are required for visual effects. In order to obtain this exemption, the Executive Officer must receive notification in writing at least 72 hours in advance of any such activity and no nuisance results from such activity.
- (5) The provisions of paragraph (d)(3) shall not apply if the dust control actions, as specified in Table 2, are implemented on a routine basis for each applicable fugitive dust source type. To qualify for this exemption, a person must maintain records in accordance with subparagraph (e)(1)(C).
- (6) The provisions of paragraph (d)(4) shall not apply to earth coverings of public paved roadways where such coverings are approved by a local government agency for the protection of the roadway, and where such coverings are used as roadway crossings for haul vehicles provided that such roadway is closed to through traffic and visible roadway dust is removed within one day following the cessation of activities.
- (7) The provisions of subdivision (e) shall not apply to:
  - (A) officially-designated public parks and recreational areas, including national parks, national monuments, national forests, state parks, state recreational areas, and county regional parks.
  - (B) any large operation which is required to submit a dust control plan to any city or county government which has adopted a District-approved dust control ordinance.
  - (C) any large operation subject to Rule 1158, which has an approved dust control plan pursuant to Rule 1158, provided that all sources of fugitive dust are included in the Rule 1158 plan.
- (8) The provisions of subparagraph (e)(1)(A) through (e)(1)(C) shall not apply to any large operation with an AQMD-approved fugitive dust control plan

provided that there is no change to the sources and controls as identified in the AQMD-approved fugitive dust control plan.

(h) Fees

Any person conducting active operations for which the Executive Officer conducts upwind/downwind monitoring for PM<sub>10</sub> pursuant to paragraph (d)(3) shall be assessed applicable Ambient Air Analysis Fees pursuant to Rule 304.1. Applicable fees shall be waived for any facility which is exempted from paragraph (d)(3) or meets the requirements of paragraph (d)(3).

**TABLE 1  
BEST AVAILABLE CONTROL MEASURES  
(Applicable to All Construction Activity Sources)**

Source Category	Control Measure	Guidance
Backfilling	01-1 Stabilize backfill material when not actively handling; and 01-2 Stabilize backfill material during handling; and 01-3 Stabilize soil at completion of activity.	<ul style="list-style-type: none"> <li>✓ Mix backfill soil with water prior to moving</li> <li>✓ Dedicate water truck or high capacity hose to backfilling equipment</li> <li>✓ Empty loader bucket slowly so that no dust plumes are generated</li> <li>✓ Minimize drop height from loader bucket</li> </ul>
Clearing and grubbing	02-1 Maintain stability of soil through pre-watering of site prior to clearing and grubbing; and 02-2 Stabilize soil during clearing and grubbing activities; and 02-3 Stabilize soil immediately after clearing and grubbing activities.	<ul style="list-style-type: none"> <li>✓ Maintain live perennial vegetation where possible</li> <li>✓ Apply water in sufficient quantity to prevent generation of dust plumes</li> </ul>
Clearing forms	03-1 Use water spray to clear forms; or 03-2 Use sweeping and water spray to clear forms; or 03-3 Use vacuum system to clear forms.	<ul style="list-style-type: none"> <li>✓ Use of high pressure air to clear forms may cause exceedance of Rule requirements</li> </ul>
Crushing	04-1 Stabilize surface soils prior to operation of support equipment; and 04-2 Stabilize material after crushing.	<ul style="list-style-type: none"> <li>✓ Follow permit conditions for crushing equipment</li> <li>✓ Pre-water material prior to loading into crusher</li> <li>✓ Monitor crusher emissions opacity</li> <li>✓ Apply water to crushed material to prevent dust plumes</li> </ul>

**TABLE 1**  
**BEST AVAILABLE CONTROL MEASURES**  
**(Applicable to All Construction Activity Sources)**

Source Category	Control Measure	Guidance
Cut and fill	05-1 Pre-water soils prior to cut and fill activities; and 05-2 Stabilize soil during and after cut and fill activities.	<ul style="list-style-type: none"> <li>✓ For large sites, pre-water with sprinklers or water trucks and allow time for penetration</li> <li>✓ Use water trucks/pulls to water soils to depth of cut prior to subsequent cuts</li> </ul>
Demolition – mechanical/manual	06-1 Stabilize wind erodible surfaces to reduce dust; and 06-2 Stabilize surface soil where support equipment and vehicles will operate; and 06-3 Stabilize loose soil and demolition debris; and 06-4 Comply with AQMD Rule 1403.	<ul style="list-style-type: none"> <li>✓ Apply water in sufficient quantities to prevent the generation of visible dust plumes</li> </ul>
Disturbed soil	07-1 Stabilize disturbed soil throughout the construction site; and 07-2 Stabilize disturbed soil between structures	<ul style="list-style-type: none"> <li>✓ Limit vehicular traffic and disturbances on soils where possible</li> <li>✓ If interior block walls are planned, install as early as possible</li> <li>✓ Apply water or a stabilizing agent in sufficient quantities to prevent the generation of visible dust plumes</li> </ul>
Earth-moving activities	08-1 Pre-apply water to depth of proposed cuts; and 08-2 Re-apply water as necessary to maintain soils in a damp condition and to ensure that visible emissions do not exceed 100 feet in any direction; and 08-3 Stabilize soils once earth-moving activities are complete.	<ul style="list-style-type: none"> <li>✓ Grade each project phase separately, timed to coincide with construction phase</li> <li>✓ Upwind fencing can prevent material movement on site</li> <li>✓ Apply water or a stabilizing agent in sufficient quantities to prevent the generation of visible dust plumes</li> </ul>

**TABLE 1  
BEST AVAILABLE CONTROL MEASURES  
(Applicable to All Construction Activity Sources)**

Source Category	Control Measure	Guidance
Importing/exporting of bulk materials	09-1 Stabilize material while loading to reduce fugitive dust emissions; and 09-2 Maintain at least six inches of freeboard on haul vehicles; and 09-3 Stabilize material while transporting to reduce fugitive dust emissions; and 09-4 Stabilize material while unloading to reduce fugitive dust emissions; and 09-5 Comply with Vehicle Code Section 23114.	<ul style="list-style-type: none"> <li>✓ Use tarps or other suitable enclosures on haul trucks</li> <li>✓ Check belly-dump truck seals regularly and remove any trapped rocks to prevent spillage</li> <li>✓ Comply with track-out prevention/mitigation requirements</li> <li>✓ Provide water while loading and unloading to reduce visible dust plumes</li> </ul>
Landscaping	10-1 Stabilize soils, materials, slopes	<ul style="list-style-type: none"> <li>✓ Apply water to materials to stabilize</li> <li>✓ Maintain materials in a crusted condition</li> <li>✓ Maintain effective cover over materials</li> <li>✓ Stabilize sloping surfaces using soil binders until vegetation or ground cover can effectively stabilize the slopes</li> <li>✓ Hydroseed prior to rain season</li> </ul>
Road shoulder maintenance	11-1 Apply water to unpaved shoulders prior to clearing; and 11-2 Apply chemical dust suppressants and/or washed gravel to maintain a stabilized surface after completing road shoulder maintenance.	<ul style="list-style-type: none"> <li>✓ Installation of curbing and/or paving of road shoulders can reduce recurring maintenance costs</li> <li>✓ Use of chemical dust suppressants can inhibit vegetation growth and reduce future road shoulder maintenance costs</li> </ul>

**TABLE 1  
BEST AVAILABLE CONTROL MEASURES  
(Applicable to All Construction Activity Sources)**

Source Category	Control Measure	Guidance
Screening	12-1 Pre-water material prior to screening; and 12-2 Limit fugitive dust emissions to opacity and plume length standards; and 12-3 Stabilize material immediately after screening.	<ul style="list-style-type: none"> <li>✓ Dedicate water truck or high capacity hose to screening operation</li> <li>✓ Drop material through the screen slowly and minimize drop height</li> <li>✓ Install wind barrier with a porosity of no more than 50% upwind of screen to the height of the drop point</li> </ul>
Staging areas	13-1 Stabilize staging areas during use; and 13-2 Stabilize staging area soils at project completion.	<ul style="list-style-type: none"> <li>✓ Limit size of staging area</li> <li>✓ Limit vehicle speeds to 15 miles per hour</li> <li>✓ Limit number and size of staging area entrances/exits</li> </ul>
Stockpiles/ Bulk Material Handling	14-1 Stabilize stockpiled materials. 14-2 Stockpiles within 100 yards of off-site occupied buildings must not be greater than eight feet in height; or must have a road bladed to the top to allow water truck access or must have an operational water irrigation system that is capable of complete stockpile coverage.	<ul style="list-style-type: none"> <li>✓ Add or remove material from the downwind portion of the storage pile</li> <li>✓ Maintain storage piles to avoid steep sides or faces</li> </ul>

**TABLE 1  
BEST AVAILABLE CONTROL MEASURES  
(Applicable to All Construction Activity Sources)**

Source Category	Control Measure	Guidance
Traffic areas for construction activities	15-1 Stabilize all off-road traffic and parking areas; and 15-2 Stabilize all haul routes; and 15-3 Direct construction traffic over established haul routes.	<ul style="list-style-type: none"> <li>✓ Apply gravel/paving to all haul routes as soon as possible to all future roadway areas</li> <li>✓ Barriers can be used to ensure vehicles are only used on established parking areas/haul routes</li> </ul>
Trenching	16-1 Stabilize surface soils where trencher or excavator and support equipment will operate; and 16-2 Stabilize soils at the completion of trenching activities.	<ul style="list-style-type: none"> <li>✓ Pre-watering of soils prior to trenching is an effective preventive measure. For deep trenching activities, pre-trench to 18 inches soak soils via the pre-trench and resuming trenching</li> <li>✓ Washing mud and soils from equipment at the conclusion of trenching activities can prevent crusting and drying of soil on equipment</li> </ul>
Truck loading	17-1 Pre-water material prior to loading; and 17-2 Ensure that freeboard exceeds six inches (CVC 23114)	<ul style="list-style-type: none"> <li>✓ Empty loader bucket such that no visible dust plumes are created</li> <li>✓ Ensure that the loader bucket is close to the truck to minimize drop height while loading</li> </ul>
Turf Overseeding	18-1 Apply sufficient water immediately prior to conducting turf vacuuming activities to meet opacity and plume length standards; and 18-2 Cover haul vehicles prior to exiting the site.	<ul style="list-style-type: none"> <li>✓ Haul waste material immediately off-site</li> </ul>

**TABLE 1  
BEST AVAILABLE CONTROL MEASURES  
(Applicable to All Construction Activity Sources)**

<b>Source Category</b>	<b>Control Measure</b>	<b>Guidance</b>
Unpaved roads/parking lots	19-1 Stabilize soils to meet the applicable performance standards; and 19-2 Limit vehicular travel to established unpaved roads (haul routes) and unpaved parking lots.	✓ Restricting vehicular access to established unpaved travel paths and parking lots can reduce stabilization requirements
Vacant land	20-1 In instances where vacant lots are 0.10 acre or larger and have a cumulative area of 500 square feet or more that are driven over and/or used by motor vehicles and/or off-road vehicles, prevent motor vehicle and/or off-road vehicle trespassing, parking and/or access by installing barriers, curbs, fences, gates, posts, signs, shrubs, trees or other effective control measures.	



**TABLE 2**  
**DUST CONTROL MEASURES FOR LARGE OPERATIONS**

<b>FUGITIVE DUST SOURCE CATEGORY</b>	<b>CONTROL ACTIONS</b>
<b>Earth-moving (except construction cutting and filling areas, and mining operations)</b>	<p>(1a) Maintain soil moisture content at a minimum of 12 percent, as determined by ASTM method D-2216, or other equivalent method approved by the Executive Officer, the California Air Resources Board, and the U.S. EPA. Two soil moisture evaluations must be conducted during the first three hours of active operations during a calendar day, and two such evaluations each subsequent four-hour period of active operations; OR</p> <p>(1a-1) For any earth-moving which is more than 100 feet from all property lines, conduct watering as necessary to prevent visible dust emissions from exceeding 100 feet in length in any direction.</p>
<b>Earth-moving: Construction fill areas:</b>	<p>(1b) Maintain soil moisture content at a minimum of 12 percent, as determined by ASTM method D-2216, or other equivalent method approved by the Executive Officer, the California Air Resources Board, and the U.S. EPA. For areas which have an optimum moisture content for compaction of less than 12 percent, as determined by ASTM Method 1557 or other equivalent method approved by the Executive Officer and the California Air Resources Board and the U.S. EPA, complete the compaction process as expeditiously as possible after achieving at least 70 percent of the optimum soil moisture content. Two soil moisture evaluations must be conducted during the first three hours of active operations during a calendar day, and two such evaluations during each subsequent four-hour period of active operations.</p>

TABLE 2 (Continued)

<b>FUGITIVE DUST SOURCE CATEGORY</b>	<b>CONTROL ACTIONS</b>
<b>Earth-moving: Construction cut areas and mining operations:</b>	(1c) Conduct watering as necessary to prevent visible emissions from extending more than 100 feet beyond the active cut or mining area unless the area is inaccessible to watering vehicles due to slope conditions or other safety factors.
<b>Disturbed surface areas (except completed grading areas)</b>	(2a/b) Apply dust suppression in sufficient quantity and frequency to maintain a stabilized surface. Any areas which cannot be stabilized, as evidenced by wind driven fugitive dust must have an application of water at least twice per day to at least 80 percent of the unstabilized area.
<b>Disturbed surface areas: Completed grading areas</b>	(2c) Apply chemical stabilizers within five working days of grading completion; OR  (2d) Take actions (3a) or (3c) specified for inactive disturbed surface areas.
<b>Inactive disturbed surface areas</b>	(3a) Apply water to at least 80 percent of all inactive disturbed surface areas on a daily basis when there is evidence of wind driven fugitive dust, excluding any areas which are inaccessible to watering vehicles due to excessive slope or other safety conditions; OR  (3b) Apply dust suppressants in sufficient quantity and frequency to maintain a stabilized surface; OR  (3c) Establish a vegetative ground cover within 21 days after active operations have ceased. Ground cover must be of sufficient density to expose less than 30 percent of unstabilized ground within 90 days of planting, and at all times thereafter; OR  (3d) Utilize any combination of control actions (3a), (3b), and (3c) such that, in total, these actions apply to all inactive disturbed surface areas.

TABLE 2 (Continued)

<b>FUGITIVE DUST SOURCE CATEGORY</b>	<b>CONTROL ACTIONS</b>
<b>Unpaved Roads</b>	(4a) Water all roads used for any vehicular traffic at least once per every two hours of active operations [3 times per normal 8 hour work day]; OR (4b) Water all roads used for any vehicular traffic once daily and restrict vehicle speeds to 15 miles per hour; OR (4c) Apply a chemical stabilizer to all unpaved road surfaces in sufficient quantity and frequency to maintain a stabilized surface.
<b>Open storage piles</b>	(5a) Apply chemical stabilizers; OR (5b) Apply water to at least 80 percent of the surface area of all open storage piles on a daily basis when there is evidence of wind driven fugitive dust; OR (5c) Install temporary coverings; OR (5d) Install a three-sided enclosure with walls with no more than 50 percent porosity which extend, at a minimum, to the top of the pile. This option may only be used at aggregate-related plants or at cement manufacturing facilities.
<b>All Categories</b>	(6a) Any other control measures approved by the Executive Officer and the U.S. EPA as equivalent to the methods specified in Table 2 may be used.

TABLE 3

## CONTINGENCY CONTROL MEASURES FOR LARGE OPERATIONS

<b>FUGITIVE DUST SOURCE CATEGORY</b>	<b>CONTROL MEASURES</b>
<b>Earth-moving</b>	(1A) Cease all active operations; OR (2A) Apply water to soil not more than 15 minutes prior to moving such soil.
<b>Disturbed surface areas</b>	(0B) On the last day of active operations prior to a weekend, holiday, or any other period when active operations will not occur for not more than four consecutive days: apply water with a mixture of chemical stabilizer diluted to not less than 1/20 of the concentration required to maintain a stabilized surface for a period of six months; OR (1B) Apply chemical stabilizers prior to wind event; OR (2B) Apply water to all unstabilized disturbed areas 3 times per day. If there is any evidence of wind driven fugitive dust, watering frequency is increased to a minimum of four times per day; OR (3B) Take the actions specified in Table 2, Item (3c); OR (4B) Utilize any combination of control actions (1B), (2B), and (3B) such that, in total, these actions apply to all disturbed surface areas.
<b>Unpaved roads</b>	(1C) Apply chemical stabilizers prior to wind event; OR (2C) Apply water twice per hour during active operation; OR (3C) Stop all vehicular traffic.
<b>Open storage piles</b>	(1D) Apply water twice per hour; OR (2D) Install temporary coverings.
<b>Paved road track-out</b>	(1E) Cover all haul vehicles; OR (2E) Comply with the vehicle freeboard requirements of Section 23114 of the California Vehicle Code for both public and private roads.
<b>All Categories</b>	(1F) Any other control measures approved by the Executive Officer and the U.S. EPA as equivalent to the methods specified in Table 3 may be used.

# Appendix F-3

- Operation Emissions Inventory
  - Regional Operation Emissions (Modified and Entitled Projects)
    - Regional Emission Summary Sheet
    - Stationary Source Emissions Sheet
    - URBEMIS2002 Output Files
  - Local Operation Emissions (Modified and Entitled Projects)
    - One-hour CO Summary Sheets
    - Eight-hour CO Summary Sheets
    - CALINE4 Output Files
    - EMFAC2002 Emission Rates
  - Freeway Health Risk Assessment Summary (HRA) Sheets
    - Calculation Worksheets
    - ISC Contour Plot File

# Carson Marketplace

## Regional Emission Calculations (lbs/day)

	CO	NOx	PM10	ROC	SOx
<b>Project</b>					
Mobile	4404	540	589	373	3
Area	6	9	<1	129	<1
Stationary	39	170	5	4	14
<b>Total Project</b>	<b>4,450</b>	<b>719</b>	<b>595</b>	<b>506</b>	<b>17</b>
SCAQMD Significance Threshold	550	55	150	55	150
<b>Difference</b>	<b>3,900</b>	<b>664</b>	<b>445</b>	<b>451</b>	<b>(133)</b>
<b>Significant?</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>No</b>

**Electricity Usage**

Land Use	1,000 Sqft	Electricity	Total Electricity Usage		Emission Factors (lbs/MWh) <sup>b</sup>				
		Usage Rate <sup>a</sup> (kWh/sq.ft/yr)	(KWh/year)	(MWh/Day)	CO	ROC	NOx	PM10	SOx
					<u>0.2</u>	<u>0.01</u>	<u>1.15</u>	<u>0.04</u>	<u>0.12</u>
<b>Project</b>									
Retail	1545.0	13.55	20,934,750	57.355	11.471	0.574	65.959	2.294	6.883
Hotel/Motel	200.0	9.95	1,990,000	5.452	1.090	0.055	6.270	0.218	0.654
Restaurant	81.1	47.45	3,849,381	10.546	2.109	0.105	12.128	0.422	1.266
Food Store	90.0	53.3	4,797,000	13.142	2.628	0.131	15.114	0.526	1.577
Health Club + Recreational Center	79.0	10.5	829,500	2.273	0.455	0.023	2.613	0.091	0.273
Residential (DU)	1550.0	5.627	8,721,075	23.893	4.779	0.239	27.477	0.956	2.867
<b>Total Project</b>			<b>41,121,706</b>	<b>112.662</b>	<b>22.53</b>	<b>1.13</b>	<b>129.56</b>	<b>4.51</b>	<b>13.52</b>
<b>Net Emissions From Electricity Usage</b>					<b>22.53</b>	<b>1.13</b>	<b>129.56</b>	<b>4.51</b>	<b>13.52</b>

**Natural Gas Usage**

Land Use	1,000 Sqft	Natural Gas	Total Natural Gas Usage		Emission Factors (lbs/Mcuft) <sup>d</sup>				
		Usage Rate <sup>c</sup> (cu.ft/sq.ft/mo)	(cu.ft/mo)	(cu.ft/DAY)	CO	ROC	NOx	PM10	SOx
					<u>40</u>	<u>7.26</u>	<u>100/94<sup>e</sup></u>	<u>0.18</u>	<u>0</u>
<b>Project</b>									
Retail	1545.0	2.9	4,480,500	149,350	5.974	1.084	14.935	0.027	--
Hotel/Motel	200.0	4.8	960,000	32,000	1.280	0.232	3.200	0.006	--
Restaurant	81.1	4.8	389,400	12,980	0.519	0.094	1.298	0.002	--
Food Store	90.0	2.9	261,000	8,700	0.348	0.063	0.870	0.002	--
Health Club + Recreational Center	79.0	2.9	229,100	7,637	0.305	0.055	0.764	0.001	--
Residential (Multi-Family DU)	1550.0	4.012	6,217,825	207,261	8.290	1.505	19.483	0.037	--
<b>Total Project</b>			<b>12,537,825</b>	<b>417,928</b>	<b>16.72</b>	<b>3.03</b>	<b>40.55</b>	<b>0.08</b>	<b>--</b>
<b>Net Emissions From Natural Gas Usage</b>					<b>16.72</b>	<b>3.03</b>	<b>40.55</b>	<b>0.08</b>	<b>--</b>

**Summary of Stationary Emissions**

	CO	ROC	NOx	PM10	SOx
Total Existing Emissions (lbs/day)	0.00	0.00	0.00	0.00	0.00
Total Project Emissions (lbs/day)	39.25	4.16	170.11	4.58	13.52
<b>Total Net Emissions (lbs/day)</b>	<b>39.25</b>	<b>4.16</b>	<b>170.11</b>	<b>4.58</b>	<b>13.52</b>

<sup>a</sup> Electricity Usage Rates from Table A9-11-A, CEQA Air Quality Handbook, SCAQMD, 1993.

<sup>b</sup> Emission Factors from Table A9-11-B, CEQA Air Quality Handbook, SCAQMD, 1993.

<sup>c</sup> Natural Gas Usage Rates from Table A9-12-A, CEQA Air Quality Handbook, SCAQMD, 1993.

<sup>d</sup> Emission Factors from URBEMIS2002 Version 8.7 (US EPA 1995)

<sup>e</sup> The emission factors for NOx in lbs per million cuft of natural gas are 100 for nonresidential uses and 94 for residential uses.

# Operations - CO

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File Name: V:\AQNOISE DIVISION\Active Projects\Carson Stadium\Operations\Operations (081505).urb  
 Project Name: Carson Marketplace Operations Emissions  
 Project Location: South Coast Air Basin (Los Angeles area)  
 On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

## DETAIL REPORT (Pounds/Day - Winter)

AREA SOURCE EMISSION ESTIMATES (Winter Pounds per Day, Unmitigated)	Source	ROG	NOx	CO	SO2	PM10
Natural Gas		0.00	0.00	0.00	0	0.00
Hearth		0.50	8.57	3.65	0.05	0.69
Landscaping - No winter emissions						
Consumer Prdcts		75.83	-	-	-	-
Architectural Coatings		52.19	-	-	-	-
TOTALS(lbs/day,unmitigated)		128.52	8.57	3.65	0.05	0.69

## UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Apartments high rise	17.59	27.09	197.12	0.14	25.91
Condo/townhouse high rise	35.83	54.28	394.93	0.28	51.90
Bowling Alley + Movie The	17.63	29.54	206.71	0.14	27.75
Fitness + Rec Center	5.48	9.07	63.48	0.04	8.52
Quality restaurant	5.84	9.88	69.18	0.05	9.31
High turnover (sit-down)	22.27	37.67	263.58	0.18	35.39
Fast food rest. w/ drive	32.82	55.67	389.58	0.27	52.30
Hotel	17.19	28.31	198.09	0.14	26.60
Regional Retail Center	195.32	326.96	2,286.69	1.59	306.33
Neighborhood Retail	28.45	47.83	334.50	0.23	44.81
TOTAL EMISSIONS (lbs/day)	378.42	626.30	4,403.86	3.08	588.81

Does not include correction for passby trips.  
 Does not include double counting adjustment for internal trips.

## OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2010 Temperature (F): 60 Season: Winter

EMFAC Version: EMFAC2002 (9/2002)

## Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Apartments high rise	6.45	6.39 trips/dwelling unit	400.00	2,554.00
Condo/townhouse high rise	17.97	4.45 trips/dwelling unit	1,150.00	5,117.00
Bowling Alley + Movie The		23.64 trips/1000 sq. ft.	135.00	3,191.00
Fitness + Rec Center		12.41 trips/1000 sq. ft.	79.00	980.00
Quality restaurant		64.74 trips/1000 sq. ft.	16.13	1,044.00
High turnover (sit-down)		81.38 trips/1000 sq. ft.	50.00	4,069.00
Fast food rest. w/ drive		400.93 trips/1000 sq. ft.	15.00	6,014.00
Hotel		10.19 trips/rooms	300.00	3,058.00
Regional Retail Center		26.37 trips/1000 sq. ft.	1,370.00	36,129.00
Neighborhood Retail		40.65 trips/1000 sq. ft.	130.00	5,285.00
		Sum of Total Trips		67,441.00
		Total Vehicle Miles Traveled		388,589.34

## Vehicle Assumptions:

### Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	54.70	1.10	98.70	0.20
Light Truck < 3,750 lbs	15.20	2.00	96.00	2.00
Light Truck 3,751- 5,750	16.20	1.20	98.10	0.70
Med Truck 5,751- 8,500	7.30	1.40	95.90	2.70
Lite-Heavy 8,501-10,000	1.10	0.00	81.80	18.20
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	1.00	0.00	20.00	80.00
Heavy-Heavy 33,001-60,000	0.90	0.00	11.10	88.90
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.60	68.80	31.20	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	1.40	7.10	85.70	7.20

## Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Rural Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Trip Speeds (mph)	35.0	40.0	40.0	40.0	40.0	40.0
% of Trips - Residential	20.0	37.0	43.0			



## Operations - CO

% of Trips - Commercial (by land use)			
Bowling Alley + Movie Theater	5.0	2.5	92.5
Fitness + Rec Center	5.0	2.5	92.5
Quality restaurant	8.0	4.0	88.0
High turnover (sit-down) rest.	5.0	2.5	92.5
Fast food rest. w/ drive thru	5.0	2.5	92.5
Hotel	5.0	2.5	92.5
Regional Retail Center	2.0	1.0	97.0
Neighborhood Retail	2.0	1.0	97.0

### Changes made to the default values for Land Use Trip Percentages

The Trip Rate and/or Acreage values for Apartments high rise have changed from the defaults 5.28/6.45 to 6.385/6.45  
The Trip Rate and/or Acreage values for Condominium/townhouse high rise have changed from the defaults 5.26/17.97 to 4.449565217/17.97

### Changes made to the default values for Area

The natural gas option switch changed from on to off.  
The wood stove percentage changed from 35 to .  
The wood fireplace percentage changed from 10 to .  
The natural gas fireplace percentage changed from 55 to 100.  
The landscape year changed from 2005 to 2010.

### Changes made to the default values for Operations

The operational emission year changed from 2005 to 2010.  
The operational winter temperature changed from 50 to 60.  
The operational summer temperature changed from 90 to 85.  
The operational summer selection item changed from 8 to 6.

# Operations - NOx

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File Name: V:\AQNOISE DIVISION\Active Projects\Carson Stadium\Operations\Operations (081505).urb  
 Project Name: Carson Marketplace Operations Emissions  
 Project Location: South Coast Air Basin (Los Angeles area)  
 On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

## DETAIL REPORT (Pounds/Day - Summer)

AREA SOURCE EMISSION ESTIMATES (Summer Pounds per Day, Unmitigated)	Source	ROG	NOx	CO	SO2	PM10
Natural Gas		0.00	0.00	0.00	0	0.00
Hearth - No summer emissions						
Landscaping		0.90	0.09	6.31	0.00	0.01
Consumer Prdcts		75.83	-	-	-	-
Architectural Coatings		52.19	-	-	-	-
TOTALS(lbs/day,unmitigated)		128.92	0.09	6.31	0.00	0.01

## UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Apartments high rise	17.20	23.31	187.48	0.15	25.91
Condo/townhouse high rise	36.91	46.70	375.61	0.30	51.90
Bowling Alley + Movie The	15.60	25.45	193.77	0.16	27.75
Fitness + Rec Center	5.06	7.82	59.51	0.05	8.52
Quality restaurant	5.01	8.51	64.99	0.05	9.31
High turnover (sit-down)	19.03	32.45	247.08	0.20	35.39
Fast food rest. w/ drive	27.72	47.96	365.19	0.29	52.30
Hotel	16.15	24.39	185.69	0.15	26.60
Regional Retail Center	171.95	281.72	2,138.54	1.73	306.33
Neighborhood Retail	24.66	41.21	312.83	0.25	44.81
TOTAL EMISSIONS (lbs/day)	339.29	539.51	4,130.70	3.32	588.81

Does not include correction for passby trips.  
 Does not include double counting adjustment for internal trips.

## OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2010 Temperature (F): 75 Season: Summer

EMFAC Version: EMFAC2002 (9/2002)

## Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Apartments high rise	6.45	6.39 trips/dwelling unit	400.00	2,554.00
Condo/townhouse high rise	17.97	4.45 trips/dwelling unit	1,150.00	5,117.00
Bowling Alley + Movie The		23.64 trips/1000 sq. ft.	135.00	3,191.00
Fitness + Rec Center		12.41 trips/1000 sq. ft.	79.00	980.00
Quality restaurant		64.74 trips/1000 sq. ft.	16.13	1,044.00
High turnover (sit-down)		81.38 trips/1000 sq. ft.	50.00	4,069.00
Fast food rest. w/ drive		400.93 trips/1000 sq. ft.	15.00	6,014.00
Hotel		10.19 trips/rooms	300.00	3,058.00
Regional Retail Center		26.37 trips/1000 sq. ft.	1,370.00	36,129.00
Neighborhood Retail		40.65 trips/1000 sq. ft.	130.00	5,285.00
Sum of Total Trips				67,441.00
Total Vehicle Miles Traveled				388,589.34

## Vehicle Assumptions:

### Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	54.70	1.10	98.70	0.20
Light Truck < 3,750 lbs	15.20	2.00	96.00	2.00
Light Truck 3,751- 5,750	16.20	1.20	98.10	0.70
Med Truck 5,751- 8,500	7.30	1.40	95.90	2.70
Lite-Heavy 8,501-10,000	1.10	0.00	81.80	18.20
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	1.00	0.00	20.00	80.00
Heavy-Heavy 33,001-60,000	0.90	0.00	11.10	88.90
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.60	68.80	31.20	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	1.40	7.10	85.70	7.20

## Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Rural Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Trip Speeds (mph)	35.0	40.0	40.0	40.0	40.0	40.0
% of Trips - Residential	20.0	37.0	43.0			

## Operations - NOx

% of Trips - Commercial (by land use)			
Bowling Alley + Movie Theater	5.0	2.5	92.5
Fitness + Rec Center	5.0	2.5	92.5
Quality restaurant	8.0	4.0	88.0
High turnover (sit-down) rest.	5.0	2.5	92.5
Fast food rest. w/ drive thru	5.0	2.5	92.5
Hotel	5.0	2.5	92.5
Regional Retail Center	2.0	1.0	97.0
Neighborhood Retail	2.0	1.0	97.0

### Changes made to the default values for Land Use Trip Percentages

The Trip Rate and/or Acreage values for Apartments high rise  
have changed from the defaults 5.28/6.45 to 6.385/6.45  
The Trip Rate and/or Acreage values for Condominium/townhouse high rise  
have changed from the defaults 5.26/17.97 to 4.449565217/17.97

### Changes made to the default values for Area

The natural gas option switch changed from on to off.  
The wood stove percentage changed from 35 to .  
The wood fireplace percentage changed from 10 to .  
The natural gas fireplace percentage changed from 55 to 100.  
The landscape year changed from 2005 to 2010.

### Changes made to the default values for Operations

The operational emission year changed from 2005 to 2010.  
The operational winter temperature changed from 50 to 60.  
The operational summer temperature changed from 90 to 75.  
The operational summer selection item changed from 8 to 5.

# Operations - ROG

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URBEMIS 2002 For Windows 8.7.0

File Name: V:\AQNOISE DIVISION\Active Projects\Carson Stadium\Operations\Operations (081505).urb  
 Project Name: Carson Marketplace Operations Emissions  
 Project Location: South Coast Air Basin (Los Angeles area)  
 On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

## DETAIL REPORT (Pounds/Day - Summer)

AREA SOURCE EMISSION ESTIMATES (Summer Pounds per Day, Unmitigated)	ROG	NOx	CO	SO2	PM10
Natural Gas	0.00	0.00	0.00	0	0.00
Hearth - No summer emissions					
Landscaping	0.90	0.09	6.31	0.00	0.01
Consumer Prdcts	75.83	-	-	-	-
Architectural Coatings	52.19	-	-	-	-
TOTALS(lbs/day,unmitigated)	128.92	0.09	6.31	0.00	0.01

## UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Apartments high rise	19.60	21.52	211.69	0.15	25.91
Condo/townhouse high rise	43.13	43.12	424.12	0.30	51.90
Bowling Alley + Movie The	17.02	23.50	218.43	0.16	27.75
Fitness + Rec Center	5.65	7.22	67.08	0.05	8.52
Quality restaurant	5.37	7.86	73.32	0.05	9.31
High turnover (sit-down)	20.35	29.97	278.54	0.20	35.39
Fast food rest. w/ drive	29.42	44.29	411.68	0.30	52.30
Hotel	18.21	22.52	209.33	0.15	26.60
Regional Retail Center	187.26	260.21	2,409.03	1.76	306.33
Neighborhood Retail	26.61	38.06	352.40	0.26	44.81
TOTAL EMISSIONS (lbs/day)	372.62	498.27	4,655.60	3.38	588.81

Does not include correction for passby trips.  
 Does not include double counting adjustment for internal trips.

## OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2010 Temperature (F): 85 Season: Summer

EMFAC Version: EMFAC2002 (9/2002)

## Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Apartments high rise	6.45	6.39 trips/dwelling unit	400.00	2,554.00
Condo/townhouse high rise	17.97	4.45 trips/dwelling unit	1,150.00	5,117.00
Bowling Alley + Movie The		23.64 trips/1000 sq. ft.	135.00	3,191.00
Fitness + Rec Center		12.41 trips/1000 sq. ft.	79.00	980.00
Quality restaurant		64.74 trips/1000 sq. ft.	16.13	1,044.00
High turnover (sit-down)		81.38 trips/1000 sq. ft.	50.00	4,069.00
Fast food rest. w/ drive		400.93 trips/1000 sq. ft.	15.00	6,014.00
Hotel		10.19 trips/rooms	300.00	3,058.00
Regional Retail Center		26.37 trips/1000 sq. ft.	1,370.00	36,129.00
Neighborhood Retail		40.65 trips/1000 sq. ft.	130.00	5,285.00
		Sum of Total Trips		67,441.00
		Total Vehicle Miles Traveled		388,589.34

## Vehicle Assumptions:

### Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	54.70	1.10	98.70	0.20
Light Truck < 3,750 lbs	15.20	2.00	96.00	2.00
Light Truck 3,751- 5,750	16.20	1.20	98.10	0.70
Med Truck 5,751- 8,500	7.30	1.40	95.90	2.70
Lite-Heavy 8,501-10,000	1.10	0.00	81.80	18.20
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	1.00	0.00	20.00	80.00
Heavy-Heavy 33,001-60,000	0.90	0.00	11.10	88.90
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.60	68.80	31.20	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	1.40	7.10	85.70	7.20

## Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Rural Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Trip Speeds (mph)	35.0	40.0	40.0	40.0	40.0	40.0
% of Trips - Residential	20.0	37.0	43.0			

# Operations - ROG

% of Trips - Commercial (by land use)			
Bowling Alley + Movie Theater	5.0	2.5	92.5
Fitness + Rec Center	5.0	2.5	92.5
Quality restaurant	8.0	4.0	88.0
High turnover (sit-down) rest.	5.0	2.5	92.5
Fast food rest. w/ drive thru	5.0	2.5	92.5
Hotel	5.0	2.5	92.5
Regional Retail Center	2.0	1.0	97.0
Neighborhood Retail	2.0	1.0	97.0

## Changes made to the default values for Land Use Trip Percentages

The Trip Rate and/or Acreage values for Apartments high rise  
have changed from the defaults 5.28/6.45 to 6.385/6.45  
The Trip Rate and/or Acreage values for Condominium/townhouse high rise  
have changed from the defaults 5.26/17.97 to 4.449565217/17.97

## Changes made to the default values for Area

The natural gas option switch changed from on to off.  
The wood stove percentage changed from 35 to .  
The wood fireplace percentage changed from 10 to .  
The natural gas fireplace percentage changed from 55 to 100.  
The landscape year changed from 2005 to 2010.

## Changes made to the default values for Operations

The operational emission year changed from 2005 to 2010.  
The operational winter temperature changed from 50 to 60.  
The operational summer temperature changed from 90 to 85.  
The operational summer selection item changed from 8 to 6.

## Carson Marketplace (1 of 5)

### CALINE4 Modeling Results and Estimated Local 1-Hour Carbon Monoxide Concentrations (ppm)

Projected Background 1-Hour CO Concentrations (ppm) <sup>a</sup>	
Monitoring Station: Long Beach	
<u>Year</u>	<u>1-Hr Concentration</u>
2010	5.1

Intersection and Receptor Locations	Future Without Project		Future With Project		
	Traffic CO Contribution <sup>b</sup>	Estimated Local CO Concentration <sup>c</sup>	Traffic CO Contribution <sup>b</sup>	Estimated Local CO Concentration <sup>c</sup>	Exceedance of Significance Threshold <sup>d</sup>
<b>FIGUEROA STREET AND NORTHBOUND I-405 OFF-RAMP AM</b>					
NE	1.3	6.4	1.3	6.4	NO
SE	1.2	6.3	1.2	6.3	NO
SW	1.2	6.3	1.2	6.3	NO
NW	1.2	6.3	1.2	6.3	NO
<b>FIGUEROA STREET AND NORTHBOUND I-405 OFF-RAMP PM</b>					
NE	1.1	6.2	1.1	6.2	NO
SE	1.0	6.1	1.1	6.2	NO
SW	1.2	6.3	1.2	6.3	NO
NW	1.2	6.3	1.2	6.3	NO
<b>HAMILTON AVENUE AND DEL AMO BOULEVARD AM</b>					
NE	1.5	6.6	1.5	6.6	NO
SE	1.0	6.1	1.0	6.1	NO
SW	1.3	6.4	1.4	6.5	NO
NW	1.4	6.5	1.4	6.5	NO
<b>HAMILTON AVENUE AND DEL AMO BOULEVARD PM</b>					
NE	1.3	6.4	1.8	6.9	NO
SE	1.3	6.4	1.6	6.7	NO
SW	1.7	6.8	2.2	7.3	NO
NW	1.4	6.5	1.8	6.9	NO
<b>MAIN STREET AND NORTHBOUND I-405 OFF-RAMP AM</b>					
NE	1.3	6.4	1.4	6.5	NO
SE	1.2	6.3	1.2	6.3	NO
SW	1.1	6.2	1.2	6.3	NO
NW	1.2	6.3	1.2	6.3	NO
<b>MAIN STREET AND NORTHBOUND I-405 OFF-RAMP PM</b>					
NE	1.1	6.2	1.3	6.4	NO
SE	1.0	6.1	1.2	6.3	NO
SW	1.4	6.5	1.6	6.7	NO
NW	1.5	6.6	1.7	6.8	NO
<b>MAIN STREET AND SOUTHBOUND I-405 ON-RAMP AM</b>					
NE	0.9	6.0	1.0	6.1	NO
SE	0.9	6.0	1.0	6.1	NO
SW	1.0	6.1	1.1	6.2	NO
NW	1.0	6.1	1.1	6.2	NO
<b>MAIN STREET AND SOUTHBOUND I-405 ON-RAMP PM</b>					
NE	0.9	6.0	1.1	6.2	NO
SE	0.9	6.0	1.0	6.1	NO
SW	1.5	6.6	1.7	6.8	NO
NW	1.4	6.5	1.6	6.7	NO
<b>VERMONT AVENUE AND DEL AMO BOULEVARD AM</b>					
NE	1.4	6.5	1.6	6.7	NO
SE	1.3	6.4	1.4	6.5	NO
SW	1.0	6.1	1.2	6.3	NO
NW	1.2	6.3	1.4	6.5	NO
<b>VERMONT AVENUE AND DEL AMO BOULEVARD PM</b>					
NE	1.4	6.5	1.6	6.7	NO
SE	1.5	6.6	1.7	6.8	NO
SW	1.5	6.6	1.9	7.0	NO
NW	1.7	6.8	2.1	7.2	NO

a Based on guidance provided by the [AQMD Air Quality Analysis Guidance Handbook](#)

b The 1-hour traffic contribution (ppm) is determined by inputting total traffic volumes into the CALINE4 model.

c The estimated local concentration is the traffic contribution + the background concentration.

d The California Ambient Air Quality Standard for 1-hour CO concentrations is 20 ppm.

## Carson Marketplace (1 of 5)

CALINE4 Modeling Results and Estimated Local 8-Hour Carbon Monoxide Concentrations (ppm)

Projected Background 8-Hour CO Concentrations (ppm) <sup>a</sup>		Average Persistence Factor = 0.70	
Monitoring Station: <a href="#">Long Beach</a>			
<u>Year</u> 2010	<u>8-Hr Concentration</u> 3.9		

Intersection and Receptor Locations	Future Without Project		Future With Project		
	Traffic CO Contribution <sup>b</sup>	Estimated Local CO Concentration <sup>c</sup>	Traffic CO Contribution <sup>b</sup>	Estimated Local CO Concentration <sup>c</sup>	Exceedance of Significance Threshold <sup>d</sup>
<b>FIGUEROA STREET AND NORTHBOUND I-405 OFF-RAMP AM</b>					
NE	0.9	4.8	1.0	4.9	NO
SE	0.9	4.8	0.9	4.8	NO
SW	0.8	4.7	0.9	4.8	NO
NW	0.8	4.7	0.8	4.7	NO
<b>FIGUEROA STREET AND NORTHBOUND I-405 OFF-RAMP PM</b>					
NE	0.8	4.7	0.9	4.8	NO
SE	0.8	4.7	0.8	4.7	NO
SW	0.9	4.8	0.9	4.8	NO
NW	0.8	4.7	0.9	4.8	NO
<b>HAMILTON AVENUE AND DEL AMO BOULEVARD AM</b>					
NE	0.7	4.6	0.8	4.7	NO
SE	0.6	4.5	0.6	4.5	NO
SW	0.7	4.6	0.8	4.7	NO
NW	0.8	4.7	0.8	4.7	NO
<b>HAMILTON AVENUE AND DEL AMO BOULEVARD PM</b>					
NE	0.7	4.6	1.1	5.0	NO
SE	0.7	4.6	0.9	4.8	NO
SW	0.8	4.7	1.1	5.0	NO
NW	0.8	4.7	0.9	4.8	NO
<b>MAIN STREET AND NORTHBOUND I-405 OFF-RAMP AM</b>					
NE	0.6	4.5	0.7	4.6	NO
SE	0.6	4.5	0.6	4.5	NO
SW	0.6	4.5	0.6	4.5	NO
NW	0.6	4.5	0.6	4.5	NO
<b>MAIN STREET AND NORTHBOUND I-405 OFF-RAMP PM</b>					
NE	0.6	4.5	0.7	4.6	NO
SE	0.6	4.5	0.6	4.5	NO
SW	0.7	4.6	0.8	4.7	NO
NW	0.6	4.5	0.7	4.6	NO
<b>MAIN STREET AND SOUTHBOUND I-405 ON-RAMP AM</b>					
NE	0.5	4.4	0.5	4.4	NO
SE	0.4	4.3	0.5	4.4	NO
SW	0.6	4.5	0.6	4.5	NO
NW	0.5	4.4	0.5	4.4	NO
<b>MAIN STREET AND SOUTHBOUND I-405 ON-RAMP PM</b>					
NE	0.5	4.4	0.6	4.5	NO
SE	0.6	4.5	0.6	4.5	NO
SW	0.8	4.7	0.8	4.7	NO
NW	0.6	4.5	0.7	4.6	NO
<b>VERMONT AVENUE AND DEL AMO BOULEVARD AM</b>					
NE	0.8	4.7	0.8	4.7	NO
SE	0.6	4.5	0.7	4.6	NO
SW	0.6	4.5	0.6	4.5	NO
NW	0.6	4.5	0.8	4.7	NO
<b>VERMONT AVENUE AND DEL AMO BOULEVARD PM</b>					
NE	0.8	4.7	0.9	4.8	NO
SE	0.8	4.7	0.9	4.8	NO
SW	0.8	4.7	1.0	4.9	NO
NW	0.9	4.8	1.1	5.0	NO

a Based on guidance provided by the AQMD Air Quality Analysis Guidance Handbook.

b The persistence factor is calculated as recommended in Table B.15 in the [Transportation Project-Level Carbon Monoxide Protocol](#) (Institute of Transportation Studies, UC Davis, Revised 1997). This is a generalized persistence factor likely to provide a conservative estimate in most situations.

c The estimated local concentration is the traffic contribution + the background concentration.

d The California Ambient Air Quality Standard for 8-hour CO concentrations is 9 ppm.

## Carson Marketplace (2 of 5)

### CALINE4 Modeling Results and Estimated Local 1-Hour Carbon Monoxide Concentrations (ppm)

Projected Background 1-Hour CO Concentrations (ppm) <sup>a</sup>	
Monitoring Station: Long Beach	
<u>Year</u>	<u>1-Hr Concentration</u>
2010	5.1

Intersection and Receptor Locations	Future Without Project		Future With Project		
	Traffic CO Contribution <sup>b</sup>	Estimated Local CO Concentration <sup>c</sup>	Traffic CO Contribution <sup>b</sup>	Estimated Local CO Concentration <sup>c</sup>	Exceedance of Significance Threshold <sup>d</sup>
<b>AVALON BOULEVARD AND DEL AMO BOULEVARD AM</b>					
NE	1.4	6.5	1.6	6.7	NO
SE	1.2	6.3	1.3	6.4	NO
SW	1.4	6.5	1.6	6.7	NO
NW	1.5	6.6	1.6	6.7	NO
<b>AVALON BOULEVARD AND DEL AMO BOULEVARD PM</b>					
NE	1.8	6.9	2.2	7.3	NO
SE	1.8	6.9	2.1	7.2	NO
SW	2.0	7.1	2.2	7.3	NO
NW	1.8	6.9	2.0	7.1	NO
<b>FIGUEROA STREET AND DEL AMO BOULEVARD AM</b>					
NE	1.7	6.8	2.4	7.5	NO
SE	1.6	6.7	2.0	7.1	NO
SW	1.6	6.7	2.2	7.3	NO
NW	1.6	6.7	2.2	7.3	NO
<b>FIGUEROA STREET AND DEL AMO BOULEVARD PM</b>					
NE	1.7	6.8	3.1	8.2	NO
SE	1.9	7.0	2.5	7.6	NO
SW	1.9	7.0	3.7	8.8	NO
NW	1.9	7.0	3.5	8.6	NO
<b>HAMILTON AVENUE AND I-110 SOUTHBOUND RAMP AM</b>					
NE	1.4	6.5	1.5	6.6	NO
SE	1.5	6.6	1.7	6.8	NO
SW	1.7	6.8	1.8	6.9	NO
NW	1.5	6.6	1.7	6.8	NO
<b>HAMILTON AVENUE AND I-110 SOUTHBOUND RAMP PM</b>					
NE	1.8	6.9	2.1	7.2	NO
SE	2.6	7.7	3.0	8.1	NO
SW	2.6	7.7	3.0	8.1	NO
NW	1.8	6.9	2.3	7.4	NO
<b>MAIN STREET AND DEL AMO BOULEVARD AM</b>					
NE	1.7	6.8	2.1	7.2	NO
SE	1.6	6.7	1.9	7.0	NO
SW	1.5	6.6	1.9	7.0	NO
NW	1.5	6.6	2.0	7.1	NO
<b>MAIN STREET AND DEL AMO BOULEVARD PM</b>					
NE	1.6	6.7	2.4	7.5	NO
SE	1.6	6.7	2.4	7.5	NO
SW	1.6	6.7	2.6	7.7	NO
NW	1.8	6.9	2.6	7.7	NO
<b>STAMPS DRIVE AND DEL AMO BOULEVARD AM</b>					
NE	1.2	6.3	1.6	6.7	NO
SE	1.3	6.4	2.2	7.3	NO
SW	1.6	6.7	2.1	7.2	NO
NW	1.2	6.3	2.0	7.1	NO
<b>STAMPS DRIVE AND DEL AMO BOULEVARD PM</b>					
NE	1.3	6.4	2.2	7.3	NO
SE	0.7	5.8	2.7	7.8	NO
SW	0.9	6.0	3.0	8.1	NO
NW	1.1	6.2	3.3	8.4	NO

a Based on guidance provided by the [AQMD Air Quality Analysis Guidance Handbook](#)

b The 1-hour traffic contribution (ppm) is determined by inputting total traffic volumes into the CALINE4 model.

c The estimated local concentration is the traffic contribution + the background concentration.

d The California Ambient Air Quality Standard for 1-hour CO concentrations is 20 ppm.



## Carson Marketplace (2 of 5)

CALINE4 Modeling Results and Estimated Local 8-Hour Carbon Monoxide Concentrations (ppm)

Projected Background 8-Hour CO Concentrations (ppm) <sup>a</sup>		Average Persistence Factor = 0.70	
Monitoring Station: <a href="#">Long Beach</a>			
<u>Year</u> 2010	<u>8-Hr Concentration</u> 3.9		

Intersection and Receptor Locations	Future Without Project		Future With Project		
	Traffic CO Contribution <sup>b</sup>	Estimated Local CO Concentration <sup>c</sup>	Traffic CO Contribution <sup>b</sup>	Estimated Local CO Concentration <sup>c</sup>	Exceedance of Significance Threshold <sup>d</sup>
<b>AVALON BOULEVARD AND DEL AMO BOULEVARD AM</b>					
NE	0.8	4.7	0.8	4.7	NO
SE	0.7	4.6	0.8	4.7	NO
SW	0.8	4.7	0.8	4.7	NO
NW	0.9	4.8	0.9	4.8	NO
<b>AVALON BOULEVARD AND DEL AMO BOULEVARD PM</b>					
NE	1.1	5.0	1.1	5.0	NO
SE	1.0	4.9	1.2	5.1	NO
SW	1.0	4.9	1.1	5.0	NO
NW	1.1	5.0	1.1	5.0	NO
<b>FIGUEROA STREET AND DEL AMO BOULEVARD AM</b>					
NE	1.1	5.0	1.3	5.2	NO
SE	0.9	4.8	1.1	5.0	NO
SW	0.8	4.7	1.1	5.0	NO
NW	0.9	4.8	1.2	5.1	NO
<b>FIGUEROA STREET AND DEL AMO BOULEVARD PM</b>					
NE	1.0	4.9	1.8	5.7	NO
SE	1.1	5.0	1.5	5.4	NO
SW	1.0	4.9	2.0	5.9	NO
NW	1.0	4.9	1.8	5.7	NO
<b>HAMILTON AVENUE AND I-110 SOUTHBOUND RAMP AM</b>					
NE	0.7	4.6	0.8	4.7	NO
SE	0.8	4.7	0.8	4.7	NO
SW	0.9	4.8	1.0	4.9	NO
NW	0.8	4.7	0.9	4.8	NO
<b>HAMILTON AVENUE AND I-110 SOUTHBOUND RAMP PM</b>					
NE	0.9	4.8	1.1	5.0	NO
SE	1.1	5.0	1.3	5.2	NO
SW	1.3	5.2	1.5	5.4	NO
NW	1.1	5.0	1.3	5.2	NO
<b>MAIN STREET AND DEL AMO BOULEVARD AM</b>					
NE	1.0	4.9	1.2	5.1	NO
SE	0.8	4.7	1.1	5.0	NO
SW	0.8	4.7	1.0	4.9	NO
NW	0.8	4.7	1.1	5.0	NO
<b>MAIN STREET AND DEL AMO BOULEVARD PM</b>					
NE	1.0	4.9	1.4	5.3	NO
SE	0.8	4.7	1.4	5.3	NO
SW	0.8	4.7	1.3	5.2	NO
NW	1.0	4.9	1.5	5.4	NO
<b>STAMPS DRIVE AND DEL AMO BOULEVARD AM</b>					
NE	0.7	4.6	0.9	4.8	NO
SE	0.8	4.7	1.3	5.2	NO
SW	0.8	4.7	1.1	5.0	NO
NW	0.7	4.6	1.1	5.0	NO
<b>STAMPS DRIVE AND DEL AMO BOULEVARD PM</b>					
NE	0.6	4.5	1.3	5.2	NO
SE	0.5	4.4	1.6	5.5	NO
SW	0.5	4.4	1.4	5.3	NO
NW	0.6	4.5	1.9	5.8	NO

a Based on guidance provided by the AQMD Air Quality Analysis Guidance Handbook.

b The persistence factor is calculated as recommended in Table B.15 in the [Transportation Project-Level Carbon Monoxide Protocol](#) (Institute of Transportation Studies, UC Davis, Revised 1997). This is a generalized persistence factor likely to provide a conservative estimate in most situations.

c The estimated local concentration is the traffic contribution + the background concentration.

d The California Ambient Air Quality Standard for 8-hour CO concentrations is 9 ppm.

## Carson Marketplace (3 of 5)

### CALINE4 Modeling Results and Estimated Local 1-Hour Carbon Monoxide Concentrations (ppm)

Projected Background 1-Hour CO Concentrations (ppm) <sup>a</sup>	
Monitoring Station: Long Beach	
<u>Year</u>	<u>1-Hr Concentration</u>
2010	5.1

Intersection and Receptor Locations	Future Without Project		Future With Project		
	Traffic CO Contribution <sup>b</sup>	Estimated Local CO Concentration <sup>c</sup>	Traffic CO Contribution <sup>b</sup>	Estimated Local CO Concentration <sup>c</sup>	Exceedance of Significance Threshold <sup>d</sup>
<b>AVALON BOULEVARD AND SOUTHBOUND I-405 RAMPS AM</b>					
NE	1.8	6.9	2.1	7.2	NO
SE	2.0	7.1	2.6	7.7	NO
SW	2.1	7.2	2.3	7.4	NO
NW	1.7	6.8	1.9	7.0	NO
<b>AVALON BOULEVARD AND SOUTHBOUND I-407 RAMPS PM</b>					
NE	2.1	7.2	2.2	7.3	NO
SE	2.1	7.2	3.4	8.5	NO
SW	2.6	7.7	3.3	8.4	NO
NW	2.1	7.2	2.3	7.4	NO
<b>FIGUEROA STREET AND NORTHBOUND 110 RAMPS AM</b>					
NE	2.4	7.5	2.9	8.0	NO
SE	2.0	7.1	2.2	7.3	NO
SW	1.4	6.5	2.0	7.1	NO
NW	1.9	7.0	2.4	7.5	NO
<b>FIGUEROA STREET AND NORTHBOUND 112 RAMPS PM</b>					
NE	2.5	7.6	3.5	8.6	NO
SE	1.9	7.0	2.5	7.6	NO
SW	2.0	7.1	2.9	8.0	NO
NW	2.1	7.2	2.8	7.9	NO
<b>FIGUEROA STREET AND TORRANCE BOULEVARD AM</b>					
NE	1.3	6.4	1.8	6.9	NO
SE	1.2	6.3	1.8	6.9	NO
SW	1.2	6.3	1.5	6.6	NO
NW	1.2	6.3	1.4	6.5	NO
<b>FIGUEROA STREET AND TORRANCE BOULEVARD PM</b>					
NE	1.7	6.8	1.9	7.0	NO
SE	1.6	6.7	1.7	6.8	NO
SW	1.7	6.8	1.9	7.0	NO
NW	1.4	6.5	1.5	6.6	NO
<b>LENARDO DRIVE AND SOUTHBOUND I-405 OFF-RAMP AM</b>					
NE	0.9	6.0	1.1	6.2	NO
SE	1.8	6.9	2.0	7.1	NO
SW	1.6	6.7	1.8	6.9	NO
NW	1.1	6.2	1.5	6.6	NO
<b>LENARDO DRIVE AND SOUTHBOUND I-407 OFF-RAMP PM</b>					
NE	0.7	5.8	1.4	6.5	NO
SE	1.4	6.5	1.7	6.8	NO
SW	1.3	6.4	1.7	6.8	NO
NW	1.0	6.1	1.6	6.7	NO
<b>MAIN STREET AND TORRANCE BOULEVARD AM</b>					
NE	1.8	6.9	2.1	7.2	NO
SE	1.6	6.7	1.9	7.0	NO
SW	1.4	6.5	1.6	6.7	NO
NW	1.4	6.5	1.6	6.7	NO
<b>MAIN STREET AND TORRANCE BOULEVARD PM</b>					
NE	1.8	6.9	2.6	7.7	NO
SE	1.8	6.9	2.5	7.6	NO
SW	1.8	6.9	2.2	7.3	NO
NW	1.5	6.6	1.9	7.0	NO

a Based on guidance provided by the [AQMD Air Quality Analysis Guidance Handbook](#)

b The 1-hour traffic contribution (ppm) is determined by inputting total traffic volumes into the CALINE4 model.

c The estimated local concentration is the traffic contribution + the background concentration.

d The California Ambient Air Quality Standard for 1-hour CO concentrations is 20 ppm.

## Carson Marketplace (3 of 5)

CALINE4 Modeling Results and Estimated Local 8-Hour Carbon Monoxide Concentrations (ppm)

Projected Background 8-Hour CO Concentrations (ppm) <sup>a</sup>		Average Persistence Factor = 0.70	
Monitoring Station: <a href="#">Long Beach</a>			
<u>Year</u> 2010	<u>8-Hr Concentration</u> 3.9		

Intersection and Receptor Locations	Future Without Project		Future With Project		
	Traffic CO Contribution <sup>b</sup>	Estimated Local CO Concentration <sup>c</sup>	Traffic CO Contribution <sup>b</sup>	Estimated Local CO Concentration <sup>c</sup>	Exceedance of Significance Threshold <sup>d</sup>
<b>AVALON BOULEVARD AND SOUTHBOUND I-405 RAMPS AM</b>					
NE	1.1	5.0	1.2	5.1	NO
SE	1.1	5.0	1.3	5.2	NO
SW	1.1	5.0	1.3	5.2	NO
NW	0.9	4.8	1.1	5.0	NO
<b>AVALON BOULEVARD AND SOUTHBOUND I-407 RAMPS PM</b>					
NE	1.2	5.1	1.3	5.2	NO
SE	1.1	5.0	1.4	5.3	NO
SW	1.3	5.2	1.7	5.6	NO
NW	1.1	5.0	1.3	5.2	NO
<b>FIGUEROA STREET AND NORTHBOUND 110 RAMPS AM</b>					
NE	1.3	5.2	1.5	5.4	NO
SE	1.2	5.1	1.3	5.2	NO
SW	0.9	4.8	1.1	5.0	NO
NW	1.1	5.0	1.2	5.1	NO
<b>FIGUEROA STREET AND NORTHBOUND 112 RAMPS PM</b>					
NE	1.3	5.2	1.9	5.8	NO
SE	1.1	5.0	1.5	5.4	NO
SW	1.1	5.0	1.6	5.5	NO
NW	1.1	5.0	1.5	5.4	NO
<b>FIGUEROA STREET AND TORRANCE BOULEVARD AM</b>					
NE	0.6	4.5	1.0	4.9	NO
SE	0.6	4.5	0.9	4.8	NO
SW	0.6	4.5	0.9	4.8	NO
NW	0.6	4.5	0.8	4.7	NO
<b>FIGUEROA STREET AND TORRANCE BOULEVARD PM</b>					
NE	0.9	4.8	1.0	4.9	NO
SE	0.8	4.7	1.0	4.9	NO
SW	1.0	4.9	1.1	5.0	NO
NW	0.7	4.6	0.8	4.7	NO
<b>LENARDO DRIVE AND SOUTHBOUND I-405 OFF-RAMP AM</b>					
NE	0.5	4.4	0.6	4.5	NO
SE	1.0	4.9	1.1	5.0	NO
SW	0.8	4.7	0.8	4.7	NO
NW	0.7	4.6	0.8	4.7	NO
<b>LENARDO DRIVE AND SOUTHBOUND I-407 OFF-RAMP PM</b>					
NE	0.4	4.3	0.8	4.7	NO
SE	0.8	4.7	1.0	4.9	NO
SW	0.6	4.5	1.0	4.9	NO
NW	0.6	4.5	0.9	4.8	NO
<b>MAIN STREET AND TORRANCE BOULEVARD AM</b>					
NE	0.9	4.8	1.1	5.0	NO
SE	0.8	4.7	1.0	4.9	NO
SW	0.8	4.7	0.9	4.8	NO
NW	0.8	4.7	0.8	4.7	NO
<b>MAIN STREET AND TORRANCE BOULEVARD PM</b>					
NE	1.0	4.9	1.3	5.2	NO
SE	0.9	4.8	1.3	5.2	NO
SW	0.9	4.8	1.2	5.1	NO
NW	0.8	4.7	1.1	5.0	NO

a Based on guidance provided by the AQMD Air Quality Analysis Guidance Handbook.

b The persistence factor is calculated as recommended in Table B.15 in the [Transportation Project-Level Carbon Monoxide Protocol](#) (Institute of Transportation Studies, UC Davis, Revised 1997). This is a generalized persistence factor likely to provide a conservative estimate in most situations.

c The estimated local concentration is the traffic contribution + the background concentration.

d The California Ambient Air Quality Standard for 8-hour CO concentrations is 9 ppm.

## Carson Marketplace (4 of 5)

CALINE4 Modeling Results and Estimated Local 1-Hour Carbon Monoxide Concentrations (ppm)

Projected Background 1-Hour CO Concentrations (ppm) <sup>a</sup>	
Monitoring Station: Long Beach	
<u>Year</u>	<u>1-Hr Concentration</u>
2010	5.1

Intersection and Receptor Locations	Future Without Project		Future With Project		
	Traffic CO Contribution <sup>b</sup>	Estimated Local CO Concentration <sup>c</sup>	Traffic CO Contribution <sup>b</sup>	Estimated Local CO Concentration <sup>c</sup>	Exceedance of Significance Threshold <sup>d</sup>
<b>AVALON BOULEVARD AND 213TH STREET AM</b>					
NE	1.5	6.6	1.6	6.7	NO
SE	1.4	6.5	1.6	6.7	NO
SW	1.5	6.6	1.6	6.7	NO
NW	1.3	6.4	1.4	6.5	NO
<b>AVALON BOULEVARD AND 213th STREET PM</b>					
NE	1.7	6.8	1.9	7.0	NO
SE	1.6	6.7	1.9	7.0	NO
SW	1.8	6.9	2.0	7.1	NO
NW	1.6	6.7	1.8	6.9	NO
<b>AVALON BOULEVARD AND NORTHBOUND I-405 RAMPS AM</b>					
NE	2.4	7.5	2.5	7.6	NO
SE	2.3	7.4	2.3	7.4	NO
SW	2.3	7.4	2.4	7.5	NO
NW	2.4	7.5	2.5	7.6	NO
<b>AVALON BOULEVARD AND NORTHBOUND I-407 RAMPS PM</b>					
NE	2.6	7.7	2.7	7.8	NO
SE	2.6	7.7	2.7	7.8	NO
SW	2.8	7.9	2.9	8.0	NO
NW	3.3	8.4	3.4	8.5	NO
<b>FIGUEROA STREET AND CARSON STREET AM</b>					
NE	1.8	6.9	1.8	6.9	NO
SE	1.9	7.0	2.0	7.1	NO
SW	1.6	6.7	1.7	6.8	NO
NW	1.6	6.7	1.6	6.7	NO
<b>FIGUEROA STREET AND CARSON STREET PM</b>					
NE	1.9	7.0	2.1	7.2	NO
SE	2.7	7.8	3.0	8.1	NO
SW	2.7	7.8	2.9	8.0	NO
NW	2.7	7.8	2.9	8.0	NO
<b>MAIN STREET AND 213TH STREET AM</b>					
NE	1.6	6.7	1.8	6.9	NO
SE	1.4	6.5	1.5	6.6	NO
SW	1.4	6.5	1.5	6.6	NO
NW	1.4	6.5	1.4	6.5	NO
<b>MAIN STREET AND 213th STREET PM</b>					
NE	1.5	6.6	1.9	7.0	NO
SE	1.4	6.5	1.6	6.7	NO
SW	1.6	6.7	1.7	6.8	NO
NW	1.5	6.6	1.5	6.6	NO
<b>VERMONT AVENUE AND CARSON STREET AM</b>					
NE	2.2	7.3	2.2	7.3	NO
SE	1.8	6.9	1.9	7.0	NO
SW	1.9	7.0	2.0	7.1	NO
NW	2.2	7.3	2.3	7.4	NO
<b>VERMONT AVENUE AND CARSON STREET PM</b>					
NE	2.3	7.4	2.6	7.7	NO
SE	2.5	7.6	2.7	7.8	NO
SW	2.7	7.8	2.9	8.0	NO
NW	2.4	7.5	2.6	7.7	NO

a Based on guidance provided by the [AQMD Air Quality Analysis Guidance Handbook](#)

b The 1-hour traffic contribution (ppm) is determined by inputting total traffic volumes into the CALINE4 model.

c The estimated local concentration is the traffic contribution + the background concentration.

d The California Ambient Air Quality Standard for 1-hour CO concentrations is 20 ppm.

## Carson Marketplace (4 of 5)

CALINE4 Modeling Results and Estimated Local 8-Hour Carbon Monoxide Concentrations (ppm)

Projected Background 8-Hour CO Concentrations (ppm) <sup>a</sup>		Average Persistence Factor = 0.70	
Monitoring Station: <a href="#">Long Beach</a>			
<u>Year</u> 2010	<u>8-Hr Concentration</u> 3.9		

Intersection and Receptor Locations	Future Without Project		Future With Project		
	Traffic CO Contribution <sup>b</sup>	Estimated Local CO Concentration <sup>c</sup>	Traffic CO Contribution <sup>b</sup>	Estimated Local CO Concentration <sup>c</sup>	Exceedance of Significance Threshold <sup>d</sup>
<b>AVALON BOULEVARD AND 213TH STREET AM</b>					
NE	0.8	4.7	0.9	4.8	NO
SE	0.8	4.7	0.8	4.7	NO
SW	0.8	4.7	0.8	4.7	NO
NW	0.7	4.6	0.8	4.7	NO
<b>AVALON BOULEVARD AND 213th STREET PM</b>					
NE	1.0	4.9	1.1	5.0	NO
SE	0.8	4.7	1.0	4.9	NO
SW	0.9	4.8	1.1	5.0	NO
NW	0.8	4.7	1.0	4.9	NO
<b>AVALON BOULEVARD AND NORTHBOUND I-405 RAMPS AM</b>					
NE	1.3	5.2	1.3	5.2	NO
SE	1.1	5.0	1.1	5.0	NO
SW	1.1	5.0	1.1	5.0	NO
NW	1.1	5.0	1.1	5.0	NO
<b>AVALON BOULEVARD AND NORTHBOUND I-407 RAMPS PM</b>					
NE	1.4	5.3	1.5	5.4	NO
SE	1.3	5.2	1.4	5.3	NO
SW	1.4	5.3	1.5	5.4	NO
NW	1.6	5.5	1.6	5.5	NO
<b>FIGUEROA STREET AND CARSON STREET AM</b>					
NE	0.8	4.7	0.9	4.8	NO
SE	1.1	5.0	1.1	5.0	NO
SW	0.8	4.7	0.8	4.7	NO
NW	0.9	4.8	0.9	4.8	NO
<b>FIGUEROA STREET AND CARSON STREET PM</b>					
NE	1.0	4.9	1.1	5.0	NO
SE	1.5	5.4	1.7	5.6	NO
SW	1.3	5.2	1.4	5.3	NO
NW	1.5	5.4	1.5	5.4	NO
<b>MAIN STREET AND 213TH STREET AM</b>					
NE	0.8	4.7	0.9	4.8	NO
SE	0.7	4.6	0.8	4.7	NO
SW	0.8	4.7	0.8	4.7	NO
NW	0.8	4.7	0.8	4.7	NO
<b>MAIN STREET AND 213th STREET PM</b>					
NE	0.8	4.7	0.9	4.8	NO
SE	0.8	4.7	0.8	4.7	NO
SW	0.8	4.7	0.9	4.8	NO
NW	0.8	4.7	0.8	4.7	NO
<b>VERMONT AVENUE AND CARSON STREET AM</b>					
NE	1.1	5.0	1.1	5.0	NO
SE	1.1	5.0	1.1	5.0	NO
SW	1.0	4.9	1.1	5.0	NO
NW	1.2	5.1	1.3	5.2	NO
<b>VERMONT AVENUE AND CARSON STREET PM</b>					
NE	1.1	5.0	1.3	5.2	NO
SE	1.3	5.2	1.5	5.4	NO
SW	1.3	5.2	1.3	5.2	NO
NW	1.3	5.2	1.4	5.3	NO

a Based on guidance provided by the AQMD Air Quality Analysis Guidance Handbook.

b The persistence factor is calculated as recommended in Table B.15 in the [Transportation Project-Level Carbon Monoxide Protocol](#) (Institute of Transportation Studies, UC Davis, Revised 1997). This is a generalized persistence factor likely to provide a conservative estimate in most situations.

c The estimated local concentration is the traffic contribution + the background concentration.

d The California Ambient Air Quality Standard for 8-hour CO concentrations is 9 ppm.

## Carson Marketplace (5 of 5)

CALINE4 Modeling Results and Estimated Local 1-Hour Carbon Monoxide Concentrations (ppm)

Projected Background 1-Hour CO Concentrations (ppm) <sup>a</sup>	
Monitoring Station: Long Beach	
<u>Year</u>	<u>1-Hr Concentration</u>
2010	5.1

Intersection and Receptor Locations	Future Without Project		Future With Project		
	Traffic CO Contribution <sup>b</sup>	Estimated Local CO Concentration <sup>c</sup>	Traffic CO Contribution <sup>b</sup>	Estimated Local CO Concentration <sup>c</sup>	Exceedance of Significance Threshold <sup>d</sup>
<b>AVALON BOULEVARD AND CARSON STREET AM</b>					
NE	1.9	7.0	2.0	7.1	NO
SE	1.8	6.9	2.0	7.1	NO
SW	1.9	7.0	2.1	7.2	NO
NW	1.6	6.7	1.6	6.7	NO
<b>AVALON BOULEVARD AND CARSON STREET PM</b>					
NE	2.1	7.2	2.5	7.6	NO
SE	2.0	7.1	2.4	7.5	NO
SW	2.2	7.3	2.6	7.7	NO
NW	1.9	7.0	2.2	7.3	NO
<b>HAMILTON AVENUE AND TORRANCE BOULEVARD AM</b>					
NE	1.7	6.8	1.7	6.8	NO
SE	1.5	6.6	1.6	6.7	NO
SW	2.0	7.1	2.1	7.2	NO
NW	1.5	6.6	1.6	6.7	NO
<b>HAMILTON AVENUE AND TORRANCE BOULEVARD PM</b>					
NE	1.4	6.5	1.5	6.6	NO
SE	1.4	6.5	1.4	6.5	NO
SW	1.3	6.4	1.5	6.6	NO
NW	1.6	6.7	1.8	6.9	NO
<b>MAIN STREET AND CARSON STREET AM</b>					
NE	1.4	6.5	1.5	6.6	NO
SE	1.3	6.4	1.5	6.6	NO
SW	1.3	6.4	1.4	6.5	NO
NW	1.4	6.5	1.5	6.6	NO
<b>MAIN STREET AND CARSON STREET PM</b>					
NE	1.7	6.8	2.0	7.1	NO
SE	1.8	6.9	1.9	7.0	NO
SW	1.9	7.0	2.0	7.1	NO
NW	1.8	6.9	1.9	7.0	NO

a Based on guidance provided by the [AQMD Air Quality Analysis Guidance Handbook](#)

b The 1-hour traffic contribution (ppm) is determined by inputting total traffic volumes into the CALINE4 model.

c The estimated local concentration is the traffic contribution + the background concentration.

d The California Ambient Air Quality Standard for 1-hour CO concentrations is 20 ppm.

## Carson Marketplace (5 of 5)

CALINE4 Modeling Results and Estimated Local 8-Hour Carbon Monoxide Concentrations (ppm)

Projected Background 8-Hour CO Concentrations (ppm) <sup>a</sup>		Average Persistence Factor = 0.70	
Monitoring Station: Long Beach			
<u>Year</u>	<u>8-Hr Concentration</u>		
2010	3.9		

Intersection and Receptor Locations	Future Without Project		Future With Project		
	Traffic CO Contribution <sup>b</sup>	Estimated Local CO Concentration <sup>c</sup>	Traffic CO Contribution <sup>b</sup>	Estimated Local CO Concentration <sup>c</sup>	Exceedance of Significance Threshold <sup>d</sup>
<b>AVALON BOULEVARD AND CARSON STREET AM</b>					
NE	1.1	5.0	1.2	5.1	NO
SE	1.0	4.9	1.1	5.0	NO
SW	1.1	5.0	1.2	5.1	NO
NW	1.1	5.0	1.1	5.0	NO
<b>AVALON BOULEVARD AND CARSON STREET PM</b>					
NE	1.2	5.1	1.4	5.3	NO
SE	1.2	5.1	1.3	5.2	NO
SW	1.2	5.1	1.4	5.3	NO
NW	1.1	5.0	1.3	5.2	NO
<b>HAMILTON AVENUE AND TORRANCE BOULEVARD AM</b>					
NE	0.9	4.8	0.9	4.8	NO
SE	0.8	4.7	0.9	4.8	NO
SW	1.1	5.0	1.1	5.0	NO
NW	0.8	4.7	0.8	4.7	NO
<b>HAMILTON AVENUE AND TORRANCE BOULEVARD PM</b>					
NE	0.8	4.7	0.8	4.7	NO
SE	0.7	4.6	0.8	4.7	NO
SW	0.7	4.6	0.8	4.7	NO
NW	0.9	4.8	1.0	4.9	NO
<b>MAIN STREET AND CARSON STREET AM</b>					
NE	0.8	4.7	0.8	4.7	NO
SE	0.8	4.7	0.8	4.7	NO
SW	0.7	4.6	0.8	4.7	NO
NW	0.8	4.7	0.8	4.7	NO
<b>MAIN STREET AND CARSON STREET PM</b>					
NE	0.9	4.8	1.1	5.0	NO
SE	1.1	5.0	1.2	5.1	NO
SW	1.1	5.0	1.1	5.0	NO
NW	1.0	4.9	1.1	5.0	NO

a Based on guidance provided by the AQMD Air Quality Analysis Guidance Handbook.

b The persistence factor is calculated as recommended in Table B.15 in the Transportation Project-Level Carbon Monoxide Protocol (Institute of Transportation Studies, UC Davis, Revised 1997). This is a generalized persistence factor likely to provide a conservative estimate in most situations.

c The estimated local concentration is the traffic contribution + the background concentration.

d The California Ambient Air Quality Standard for 8-hour CO concentrations is 9 ppm.

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: FIGUEROA STREET AND NORTHBOUND I-405 OFF-RAMP AM NP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	LINK COORDINATES (M) Y1	* X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	* 5	-450	5	-150	* AG	934	3.5	.0	15.0
B. NA	* 5	-150	5	0	* AG	934	5.3	.0	9.9
C. ND	* 5	0	5	150	* AG	1203	3.8	.0	9.9
D. NE	* 5	150	5	450	* AG	1203	3.5	.0	15.0
E. SF	* -5	450	-5	150	* AG	571	3.5	.0	15.0
F. SA	* -5	150	-5	0	* AG	571	5.2	.0	9.9
G. SD	* -5	0	-5	-150	* AG	716	3.8	.0	9.9
H. SE	* -5	-150	-5	-450	* AG	716	3.5	.0	15.0
I. WF	* 450	0	150	0	* AG	414	3.5	.0	10.5
J. WA	* 150	0	0	0	* AG	269	8.6	.0	9.9
K. WD	* 0	540	0	570	* AG	0	4.6	.0	9.9
L. WE	* 0	540	0	570	* AG	0	3.5	.0	10.5
M. EF	* 0	540	0	570	* AG	0	3.5	.0	10.5
N. EA	* 0	540	0	570	* AG	0	7.7	.0	9.9
O. ED	* 0	540	0	570	* AG	0	4.6	.0	9.9
P. EE	* 0	540	0	570	* AG	0	3.5	.0	10.5
Q. NL	* 0	-570	0	-540	* AG	0	5.0	.0	9.9
R. SL	* 0	-570	0	-540	* AG	0	5.0	.0	9.9
S. WL	* 0	0	150	0	* AG	145	7.7	.0	9.9
T. EL	* 0	-570	0	-540	* AG	0	7.7	.0	9.9

SE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	B	C	CONC/LINK (PPM)					
						D	E	F	G	H	
1. NE3	* 185.	* 1.3	* .1	.7	.0	.0	.0	.0	.0	.2	
2. SE3	* 355.	* 1.2	* .0	.0	.6	.1	.1	.1	.0	.0	
3. SW3	* 86.	* 1.2	* .0	.2	.0	.0	.0	.0	.2	.0	
4. NW3	* 94.	* 1.2	* .0	.0	.2	.0	.0	.2	.0	.0	
5. NE7	* 186.	* .9	* .1	.4	.0	.0	.0	.0	.0	.1	
6. SE7	* 354.	* .9	* .0	.0	.4	.1	.1	.0	.0	.0	
7. SW7	* 84.	* .8	* .0	.2	.0	.0	.0	.0	.1	.0	
8. NW7	* 96.	* .8	* .0	.0	.2	.0	.0	.1	.0	.0	

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	* I	J	K	L	M	CONC/LINK (PPM)							
						N	O	P	Q	R	S	T	
1. NE3	* .0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2. SE3	* .0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3. SW3	* .0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	
4. NW3	* .0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	
5. NE7	* .0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
6. SE7	* .0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7. SW7	* .0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	
8. NW7	* .0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	



CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: FIGUEROA STREET AND NORTHBOUND I-405 OFF-RAMP AM WP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	LINK COORDINATES (M) Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	* 5	-450	5	-150	* AG	955	3.5	.0	15.0
B. NA	* 5	-150	5	0	* AG	955	5.3	.0	9.9
C. ND	* 5	0	5	150	* AG	1224	3.8	.0	9.9
D. NE	* 5	150	5	450	* AG	1224	3.5	.0	15.0
E. SF	* -5	450	-5	150	* AG	596	3.5	.0	15.0
F. SA	* -5	150	-5	0	* AG	596	5.2	.0	9.9
G. SD	* -5	0	-5	-150	* AG	741	3.8	.0	9.9
H. SE	* -5	-150	-5	-450	* AG	741	3.5	.0	15.0
I. WF	* 450	0	150	0	* AG	414	3.5	.0	10.5
J. WA	* 150	0	0	0	* AG	269	8.6	.0	9.9
K. WD	* 0	540	0	570	* AG	0	4.6	.0	9.9
L. WE	* 0	540	0	570	* AG	0	3.5	.0	10.5
M. EF	* 0	540	0	570	* AG	0	3.5	.0	10.5
N. EA	* 0	540	0	570	* AG	0	7.7	.0	9.9
O. ED	* 0	540	0	570	* AG	0	4.6	.0	9.9
P. EE	* 0	540	0	570	* AG	0	3.5	.0	10.5
Q. NL	* 0	-570	0	-540	* AG	0	5.0	.0	9.9
R. SL	* 0	-570	0	-540	* AG	0	5.0	.0	9.9
S. WL	* 0	0	150	0	* AG	145	7.7	.0	9.9
T. EL	* 0	-570	0	-540	* AG	0	7.7	.0	9.9

SE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	A	B	C	CONC/LINK (PPM)					H
						D	E	F	G		
1. NE3	* 185.	* 1.3	* .1	.7	.0	.0	.0	.0	.0	.0	.2
2. SE3	* 355.	* 1.2	* .0	.0	.6	.1	.1	.1	.0	.0	.0
3. SW3	* 86.	* 1.2	* .0	.2	.0	.0	.0	.0	.0	.2	.0
4. NW3	* 94.	* 1.2	* .0	.0	.2	.0	.0	.2	.0	.0	.0
5. NE7	* 186.	* 1.0	* .1	.4	.0	.0	.0	.0	.0	.0	.1
6. SE7	* 354.	* .9	* .0	.0	.4	.1	.1	.0	.0	.0	.0
7. SW7	* 84.	* .9	* .0	.2	.0	.0	.0	.0	.0	.1	.0
8. NW7	* 96.	* .8	* .0	.0	.2	.0	.0	.2	.0	.0	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	* I	J	K	L	M	CONC/LINK (PPM)							T
						N	O	P	Q	R	S		
1. NE3	* .0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. SE3	* .0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW3	* .0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0
4. NW3	* .0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0
5. NE7	* .0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. SE7	* .0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. SW7	* .0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0
8. NW7	* .0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: FIGUEROA STREET AND NORTHBOUND I-405 OFF-RAMP PM NP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	LINK COORDINATES (M) Y1	* X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	* 5	-450	5	-150	* AG	700	3.5	.0	15.0
B. NA	* 5	-150	5	0	* AG	700	5.2	.0	9.9
C. ND	* 5	0	5	150	* AG	793	3.8	.0	9.9
D. NE	* 5	150	5	450	* AG	793	3.5	.0	15.0
E. SF	* -5	450	-5	150	* AG	1127	3.5	.0	15.0
F. SA	* -5	150	-5	0	* AG	1127	5.5	.0	9.9
G. SD	* -5	0	-5	-150	* AG	1210	3.8	.0	9.9
H. SE	* -5	-150	-5	-450	* AG	1210	3.5	.0	15.0
I. WF	* 450	0	150	0	* AG	176	3.5	.0	10.5
J. WA	* 150	0	0	0	* AG	93	8.6	.0	9.9
K. WD	* 0	540	0	570	* AG	0	8.6	.0	9.9
L. WE	* 0	540	0	570	* AG	0	3.5	.0	10.5
M. EF	* 0	540	0	570	* AG	0	3.5	.0	10.5
N. EA	* 0	540	0	570	* AG	0	8.6	.0	9.9
O. ED	* 0	540	0	570	* AG	0	8.6	.0	9.9
P. EE	* 0	540	0	570	* AG	0	3.5	.0	10.5
Q. NL	* 0	-570	0	-540	* AG	0	5.0	.0	9.9
R. SL	* 0	-570	0	-540	* AG	0	5.0	.0	9.9
S. WL	* 0	0	150	0	* AG	83	8.6	.0	9.9
T. EL	* 0	-570	0	-540	* AG	0	8.6	.0	9.9

SE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	B	C	CONC/LINK (PPM)					
						D	E	F	G	H	
1. NE3	* 186.	* 1.1	* .0	.5	.0	.0	.0	.0	.2	.2	
2. SE3	* 354.	* 1.0	* .0	.0	.4	.0	.2	.3	.0	.0	
3. SW3	* 5.	* 1.2	* .0	.0	.1	.2	.1	.8	.0	.0	
4. NW3	* 6.	* 1.2	* .0	.0	.1	.1	.0	.8	.0	.0	
5. NE7	* 187.	* .8	* .0	.4	.0	.0	.0	.0	.1	.2	
6. SE7	* 353.	* .8	* .0	.0	.3	.0	.2	.2	.0	.0	
7. SW7	* 7.	* .9	* .0	.0	.1	.1	.0	.6	.0	.0	
8. NW7	* 7.	* .8	* .0	.0	.0	.2	.0	.5	.0	.0	

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	* I	J	K	L	M	CONC/LINK (PPM)							
						N	O	P	Q	R	S	T	
1. NE3	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2. SE3	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3. SW3	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
4. NW3	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5. NE7	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
6. SE7	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7. SW7	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8. NW7	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: FIGUEROA STREET AND NORTHBOUND I-405 OFF-RAMP PM WP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                 AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	LINK COORDINATES (M) Y1	* X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	* 5	-450	5	-150	* AG	744	3.5	.0	15.0
B. NA	* 5	-150	5	0	* AG	744	5.2	.0	9.9
C. ND	* 5	0	5	150	* AG	837	3.8	.0	9.9
D. NE	* 5	150	5	450	* AG	837	3.5	.0	15.0
E. SF	* -5	450	-5	150	* AG	1173	3.5	.0	15.0
F. SA	* -5	150	-5	0	* AG	1173	5.5	.0	9.9
G. SD	* -5	0	-5	-150	* AG	1256	3.8	.0	9.9
H. SE	* -5	-150	-5	-450	* AG	1256	3.5	.0	15.0
I. WF	* 450	0	150	0	* AG	176	3.5	.0	10.5
J. WA	* 150	0	0	0	* AG	93	8.6	.0	9.9
K. WD	* 0	540	0	570	* AG	0	8.6	.0	9.9
L. WE	* 0	540	0	570	* AG	0	3.5	.0	10.5
M. EF	* 0	540	0	570	* AG	0	3.5	.0	10.5
N. EA	* 0	540	0	570	* AG	0	8.6	.0	9.9
O. ED	* 0	540	0	570	* AG	0	8.6	.0	9.9
P. EE	* 0	540	0	570	* AG	0	3.5	.0	10.5
Q. NL	* 0	-570	0	-540	* AG	0	5.0	.0	9.9
R. SL	* 0	-570	0	-540	* AG	0	5.0	.0	9.9
S. WL	* 0	0	150	0	* AG	83	8.6	.0	9.9
T. EL	* 0	-570	0	-540	* AG	0	8.6	.0	9.9

SE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	B	C	CONC/LINK (PPM)					
						D	E	F	G	H	
1. NE3	* 186.	* 1.1	* .0	.6	.0	.0	.0	.0	.2	.2	
2. SE3	* 354.	* 1.1	* .0	.0	.4	.0	.2	.3	.0	.0	
3. SW3	* 5.	* 1.2	* .0	.0	.1	.2	.1	.8	.0	.0	
4. NW3	* 6.	* 1.2	* .0	.0	.1	.2	.0	.8	.0	.0	
5. NE7	* 187.	* .9	* .0	.4	.0	.0	.0	.0	.2	.2	
6. SE7	* 353.	* .8	* .0	.0	.3	.0	.2	.2	.0	.0	
7. SW7	* 7.	* .9	* .0	.0	.1	.1	.0	.6	.0	.0	
8. NW7	* 7.	* .9	* .0	.0	.0	.2	.1	.5	.0	.0	

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	* I	J	K	L	M	CONC/LINK (PPM)						
						N	O	P	Q	R	S	T
1. NE3	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. SE3	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW3	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4. NW3	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5. NE7	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. SE7	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. SW7	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. NW7	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: HAMILTON AVENUE AND DEL AMO BOULEVARD AM NP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                 AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	LINK COORDINATES (M) Y1	* X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	* 7	-450	7	-150	* AG	504	3.5	.0	15.0
B. NA	* 7	-150	7	0	* AG	421	6.1	.0	13.5
C. ND	* 7	0	7	150	* AG	288	4.0	.0	9.9
D. NE	* 7	150	7	450	* AG	288	3.5	.0	15.0
E. SF	* -7	450	-7	150	* AG	86	3.5	.0	15.0
F. SA	* -7	150	-7	0	* AG	51	6.1	.0	13.5
G. SD	* -7	0	-7	-150	* AG	460	4.0	.0	9.9
H. SE	* -7	-150	-7	-450	* AG	460	3.5	.0	15.0
I. WF	* 450	7	150	7	* AG	1253	3.5	.0	15.0
J. WA	* 150	7	0	7	* AG	878	6.3	.0	13.5
K. WD	* 0	7	-150	7	* AG	808	4.1	.0	9.9
L. WE	* -150	7	-450	7	* AG	808	3.5	.0	15.0
M. EF	* -450	-7	-150	-7	* AG	418	3.5	.0	15.0
N. EA	* -150	-7	0	-7	* AG	394	6.1	.0	13.5
O. ED	* 0	-7	150	-7	* AG	705	4.1	.0	9.9
P. EE	* 150	-7	450	-7	* AG	705	3.5	.0	15.0
Q. NL	* 0	0	5	-150	* AG	83	6.1	.0	9.9
R. SL	* 0	0	-5	150	* AG	35	6.1	.0	9.9
S. WL	* 0	0	150	5	* AG	375	6.5	.0	9.9
T. EL	* 0	0	-150	-5	* AG	24	6.1	.0	9.9

SE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	B	C	D	E	F	G	H
1. NE3	* 96.	* 1.5	* .0	.0	.0	.0	.0	.0	.0	.0
2. SE3	* 79.	* 1.0	* .0	.0	.0	.0	.0	.0	.0	.0
3. SW3	* 81.	* 1.3	* .0	.1	.0	.0	.0	.0	.1	.0
4. NW3	* 95.	* 1.4	* .0	.0	.0	.0	.0	.0	.0	.0
5. NE7	* 187.	* 1.0	* .0	.3	.0	.0	.0	.0	.0	.0
6. SE7	* 277.	* .8	* .0	.1	.0	.0	.0	.0	.0	.0
7. SW7	* 79.	* 1.0	* .0	.0	.0	.0	.0	.0	.0	.0
8. NW7	* 97.	* 1.1	* .0	.0	.0	.0	.0	.0	.0	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	* I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	* .1	.9	.0	.0	.0	.0	.0	.2	.0	.0	.2	.0
2. SE3	* .0	.3	.0	.0	.0	.0	.4	.0	.0	.0	.2	.0
3. SW3	* .0	.3	.0	.0	.0	.0	.4	.0	.0	.0	.2	.0
4. NW3	* .1	.8	.0	.0	.0	.0	.0	.2	.0	.0	.2	.0
5. NE7	* .0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0
6. SE7	* .0	.0	.0	.1	.0	.3	.0	.0	.0	.0	.0	.0
7. SW7	* .0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.2	.0
8. NW7	* .0	.6	.0	.0	.0	.0	.0	.1	.0	.0	.2	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: HAMILTON AVENUE AND DEL AMO BOULEVARD AM WP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                 AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	LINK COORDINATES (M) Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)	
A. NF	*	7	-450	7	-150	* AG	625	3.5	.0	15.0
B. NA	*	7	-150	7	0	* AG	542	7.3	.0	13.5
C. ND	*	7	0	7	150	* AG	288	4.4	.0	9.9
D. NE	*	7	150	7	450	* AG	288	3.5	.0	15.0
E. SF	*	-7	450	-7	150	* AG	86	3.5	.0	15.0
F. SA	*	-7	150	-7	0	* AG	51	7.3	.0	13.5
G. SD	*	-7	0	-7	-150	* AG	491	4.4	.0	9.9
H. SE	*	-7	-150	-7	-450	* AG	491	3.5	.0	15.0
I. WF	*	450	7	150	7	* AG	1470	3.5	.0	15.0
J. WA	*	150	7	0	7	* AG	1064	5.2	.0	13.5
K. WD	*	0	7	-150	7	* AG	994	3.8	.0	9.9
L. WE	*	-150	7	-450	7	* AG	994	3.5	.0	15.0
M. EF	*	-450	-7	-150	-7	* AG	467	3.5	.0	15.0
N. EA	*	-150	-7	0	-7	* AG	443	5.0	.0	13.5
O. ED	*	0	-7	150	-7	* AG	875	3.8	.0	9.9
P. EE	*	150	-7	450	-7	* AG	875	3.5	.0	15.0
Q. NL	*	0	0	5	-150	* AG	83	7.3	.0	9.9
R. SL	*	0	0	-5	150	* AG	35	7.3	.0	9.9
S. WL	*	0	0	150	5	* AG	406	5.2	.0	9.9
T. EL	*	0	0	-150	-5	* AG	24	5.0	.0	9.9

SE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	A	B	C	D	E	F	G	H
1. NE3	* 185.	* 1.5	* .0	.6	.0	.0	.0	.0	.0	.1
2. SE3	* 82.	* 1.0	* .0	.0	.0	.0	.0	.0	.0	.0
3. SW3	* 82.	* 1.4	* .0	.2	.0	.0	.0	.0	.0	.1
4. NW3	* 95.	* 1.4	* .0	.0	.0	.0	.0	.0	.0	.0
5. NE7	* 187.	* 1.2	* .0	.4	.0	.0	.0	.0	.0	.0
6. SE7	* 276.	* .9	* .0	.2	.0	.0	.0	.0	.0	.0
7. SW7	* 80.	* 1.1	* .0	.1	.0	.0	.0	.0	.0	.1
8. NW7	* 97.	* 1.1	* .0	.0	.0	.0	.0	.0	.0	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	* I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	* .0	.4	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
2. SE3	* .2	.2	.0	.0	.0	.0	.5	.0	.0	.0	.1	.0
3. SW3	* .2	.2	.0	.0	.0	.0	.5	.0	.0	.0	.2	.0
4. NW3	* .1	.8	.0	.0	.0	.0	.0	.2	.0	.0	.2	.0
5. NE7	* .0	.3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
6. SE7	* .0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0
7. SW7	* .0	.2	.0	.0	.0	.0	.3	.0	.0	.0	.2	.0
8. NW7	* .0	.6	.0	.0	.0	.0	.0	.2	.0	.0	.1	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: HAMILTON AVENUE AND DEL AMO BOULEVARD PM NP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                 AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	LINK COORDINATES (M) Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	* 7	-450	7	-150	* AG	340	3.5	.0	15.0
B. NA	* 7	-150	7	0	* AG	279	6.1	.0	13.5
C. ND	* 7	0	7	150	* AG	103	4.0	.0	9.9
D. NE	* 7	150	7	450	* AG	103	3.5	.0	15.0
E. SF	* -7	450	-7	150	* AG	294	3.5	.0	15.0
F. SA	* -7	150	-7	0	* AG	148	6.1	.0	13.5
G. SD	* -7	0	-7	-150	* AG	866	4.1	.0	9.9
H. SE	* -7	-150	-7	-450	* AG	866	3.5	.0	15.0
I. WF	* 450	7	150	7	* AG	1183	3.5	.0	15.0
J. WA	* 150	7	0	7	* AG	631	6.1	.0	13.5
K. WD	* 0	7	-150	7	* AG	658	4.1	.0	9.9
L. WE	* -150	7	-450	7	* AG	658	3.5	.0	15.0
M. EF	* -450	-7	-150	-7	* AG	834	3.5	.0	15.0
N. EA	* -150	-7	0	-7	* AG	831	6.3	.0	13.5
O. ED	* 0	-7	150	-7	* AG	1024	4.1	.0	9.9
P. EE	* 150	-7	450	-7	* AG	1024	3.5	.0	15.0
Q. NL	* 0	0	5	-150	* AG	61	6.1	.0	9.9
R. SL	* 0	0	-5	150	* AG	146	6.1	.0	9.9
S. WL	* 0	0	150	5	* AG	552	7.1	.0	9.9
T. EL	* 0	0	-150	-5	* AG	3	6.1	.0	9.9

SE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	A	B	C	D	E	F	G	H
1. NE3	* 96.	* 1.3	* .0	.0	.0	.0	.0	.0	.0	.0
2. SE3	* 275.	* 1.3	* .0	.1	.0	.0	.0	.0	.1	.0
3. SW3	* 81.	* 1.7	* .0	.0	.0	.0	.0	.0	.0	.2
4. NW3	* 95.	* 1.4	* .0	.0	.0	.0	.0	.0	.0	.0
5. NE7	* 187.	* 1.0	* .0	.2	.0	.0	.0	.0	.0	.2
6. SE7	* 277.	* 1.0	* .0	.0	.0	.0	.0	.0	.1	.0
7. SW7	* 79.	* 1.2	* .0	.0	.0	.0	.0	.0	.0	.2
8. NW7	* 98.	* 1.1	* .0	.0	.0	.0	.0	.0	.0	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	* I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	* .1	.7	.0	.0	.0	.0	.0	.2	.0	.0	.3	.0
2. SE3	* .0	.0	.0	.1	.0	.8	.0	.0	.0	.0	.0	.0
3. SW3	* .0	.2	.0	.0	.0	.2	.5	.0	.0	.0	.3	.0
4. NW3	* .1	.6	.0	.0	.0	.0	.0	.2	.0	.0	.3	.0
5. NE7	* .0	.2	.0	.0	.0	.0	.1	.0	.0	.0	.2	.0
6. SE7	* .0	.0	.0	.1	.0	.6	.0	.0	.0	.0	.0	.0
7. SW7	* .0	.2	.0	.0	.0	.0	.4	.0	.0	.0	.3	.0
8. NW7	* .0	.4	.0	.0	.0	.0	.1	.1	.0	.0	.3	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: HAMILTON AVENUE AND DEL AMO BOULEVARD PM WP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                 AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	LINK COORDINATES (M) Y1	* X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	* 7	-450	7	-150	* AG	615	3.5	.0	15.0
B. NA	* 7	-150	7	0	* AG	554	7.3	.0	13.5
C. ND	* 7	0	7	150	* AG	103	4.4	.0	9.9
D. NE	* 7	150	7	450	* AG	103	3.5	.0	15.0
E. SF	* -7	450	-7	150	* AG	294	3.5	.0	15.0
F. SA	* -7	150	-7	0	* AG	148	7.3	.0	13.5
G. SD	* -7	0	-7	-150	* AG	941	7.3	.0	9.9
H. SE	* -7	-150	-7	-450	* AG	941	3.5	.0	15.0
I. WF	* 450	7	150	7	* AG	1631	3.5	.0	15.0
J. WA	* 150	7	0	7	* AG	1004	5.2	.0	13.5
K. WD	* 0	7	-150	7	* AG	1031	3.8	.0	9.9
L. WE	* -150	7	-450	7	* AG	1031	3.5	.0	15.0
M. EF	* -450	-7	-150	-7	* AG	938	3.5	.0	15.0
N. EA	* -150	-7	0	-7	* AG	935	5.2	.0	13.5
O. ED	* 0	-7	150	-7	* AG	1403	3.9	.0	9.9
P. EE	* 150	-7	450	-7	* AG	1403	3.5	.0	15.0
Q. NL	* 0	0	5	-150	* AG	61	7.3	.0	9.9
R. SL	* 0	0	-5	150	* AG	146	7.3	.0	9.9
S. WL	* 0	0	150	5	* AG	627	5.5	.0	9.9
T. EL	* 0	0	-150	-5	* AG	3	5.0	.0	9.9

SE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	B	C	D	E	F	G	H
1. NE3	* 186.	* 1.8	* .0	.6	.0	.0	.0	.0	.2	.2
2. SE3	* 275.	* 1.6	* .0	.3	.0	.0	.0	.0	.2	.0
3. SW3	* 82.	* 2.2	* .0	.2	.0	.0	.0	.0	.4	.0
4. NW3	* 173.	* 1.8	* .1	.2	.0	.0	.0	.0	1.0	.0
5. NE7	* 190.	* 1.5	* .0	.5	.0	.0	.0	.0	.3	.0
6. SE7	* 276.	* 1.3	* .0	.2	.0	.0	.0	.0	.2	.0
7. SW7	* 80.	* 1.6	* .0	.1	.0	.0	.0	.0	.3	.0
8. NW7	* 171.	* 1.3	* .0	.2	.0	.0	.0	.0	.7	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	* I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	* .0	.3	.0	.0	.0	.0	.2	.0	.0	.0	.2	.0
2. SE3	* .0	.0	.0	.2	.0	.7	.0	.0	.0	.0	.0	.0
3. SW3	* .2	.2	.0	.0	.0	.2	.7	.0	.0	.0	.3	.0
4. NW3	* .0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0
5. NE7	* .0	.3	.0	.0	.0	.0	.2	.0	.0	.0	.1	.0
6. SE7	* .0	.0	.0	.2	.0	.5	.0	.0	.0	.0	.0	.0
7. SW7	* .1	.2	.0	.0	.0	.0	.5	.0	.0	.0	.2	.0
8. NW7	* .0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: MAIN STREET AND NORTHBOUND I-405 OFF-RAMP AM NP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                  AMB= .0 PPM  
 SIGTH= 5. DEGREES              TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	LINK COORDINATES (M) Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)	
A. NF	*	7	-450	7	-150	* AG	817	3.5	.0	15.0
B. NA	*	7	-150	7	0	* AG	798	5.2	.0	13.5
C. ND	*	7	0	7	150	* AG	1011	3.8	.0	9.9
D. NE	*	7	150	7	450	* AG	1011	3.5	.0	15.0
E. SF	*	-7	450	-7	150	* AG	744	3.5	.0	15.0
F. SA	*	-7	150	-7	0	* AG	744	5.0	.0	13.5
G. SD	*	-7	0	-7	-150	* AG	748	3.8	.0	9.9
H. SE	*	-7	-150	-7	-450	* AG	748	3.5	.0	15.0
I. WF	*	450	0	150	0	* AG	618	3.5	.0	15.0
J. WA	*	150	0	0	0	* AG	548	7.7	.0	9.9
K. WD	*	0	540	0	570	* AG	420	4.4	.0	9.9
L. WE	*	0	540	0	570	* AG	420	3.5	.0	15.0
M. EF	*	0	540	0	570	* AG	0	3.5	.0	10.5
N. EA	*	0	540	0	570	* AG	0	7.3	.0	9.9
O. ED	*	0	540	0	570	* AG	0	4.4	.0	9.9
P. EE	*	0	540	0	570	* AG	0	3.5	.0	10.5
Q. NL	*	0	0	5	-150	* AG	19	5.0	.0	9.9
R. SL	*	0	0	-5	150	* AG	0	5.0	.0	9.9
S. WL	*	0	0	150	2	* AG	70	7.3	.0	9.9
T. EL	*	0	-570	0	-540	* AG	0	7.3	.0	9.9

SE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	A	B	C	D	E	F	G	H
1. NE3	*	185.	* 1.3	* .0	.7	.0	.0	.0	.0	.2
2. SE3	*	354.	* 1.2	* .0	.0	.5	.0	.1	.0	.0
3. SW3	*	85.	* 1.1	* .0	.2	.0	.0	.0	.0	.2
4. NW3	*	95.	* 1.2	* .0	.0	.1	.0	.0	.2	.0
5. NE7	*	186.	* .9	* .0	.4	.0	.0	.0	.0	.2
6. SE7	*	354.	* .9	* .0	.0	.3	.1	.2	.0	.0
7. SW7	*	83.	* .8	* .0	.1	.0	.0	.0	.0	.1
8. NW7	*	97.	* .9	* .0	.0	.1	.0	.0	.2	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	* I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	*	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. SE3	*	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW3	*	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.1
4. NW3	*	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.1
5. NE7	*	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. SE7	*	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. SW7	*	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. NW7	*	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0



CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: MAIN STREET AND NORTHBOUND I-405 OFF-RAMP AM WP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	LINK COORDINATES (M) Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	*	7	-450	7	-150	* AG	882	3.5	.0 15.0
B. NA	*	7	-150	7	0	* AG	863	5.2	.0 13.5
C. ND	*	7	0	7	150	* AG	1076	3.8	.0 9.9
D. NE	*	7	150	7	450	* AG	1076	3.5	.0 15.0
E. SF	*	-7	450	-7	150	* AG	817	3.5	.0 15.0
F. SA	*	-7	150	-7	0	* AG	817	5.2	.0 13.5
G. SD	*	-7	0	-7	-150	* AG	831	3.8	.0 9.9
H. SE	*	-7	-150	-7	-450	* AG	831	3.5	.0 15.0
I. WF	*	450	0	150	0	* AG	628	3.5	.0 15.0
J. WA	*	150	0	0	0	* AG	548	8.0	.0 9.9
K. WD	*	0	540	0	570	* AG	420	4.4	.0 9.9
L. WE	*	0	540	0	570	* AG	420	3.5	.0 15.0
M. EF	*	0	540	0	570	* AG	0	3.5	.0 10.5
N. EA	*	0	540	0	570	* AG	0	7.3	.0 9.9
O. ED	*	0	540	0	570	* AG	0	4.4	.0 9.9
P. EE	*	0	540	0	570	* AG	0	3.5	.0 10.5
Q. NL	*	0	0	5	-150	* AG	19	5.0	.0 9.9
R. SL	*	0	0	-5	150	* AG	0	5.0	.0 9.9
S. WL	*	0	0	150	2	* AG	80	7.3	.0 9.9
T. EL	*	0	-570	0	-540	* AG	0	7.3	.0 9.9

SE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	A	B	C	CONC/LINK (PPM)					
						D	E	F	G	H	
1. NE3	*	185.	* 1.4	* .1	.7	.0	.0	.0	.0	.2	
2. SE3	*	354.	* 1.2	* .0	.0	.6	.0	.2	.1	.0	
3. SW3	*	85.	* 1.2	* .0	.2	.0	.0	.0	.0	.2	
4. NW3	*	95.	* 1.2	* .0	.0	.1	.0	.0	.3	.0	
5. NE7	*	186.	* 1.0	* .0	.4	.0	.0	.0	.0	.2	
6. SE7	*	354.	* .9	* .0	.0	.3	.1	.2	.0	.0	
7. SW7	*	83.	* .9	* .0	.2	.0	.0	.0	.0	.2	
8. NW7	*	97.	* .9	* .0	.0	.1	.0	.0	.2	.0	

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	* I	J	K	L	M	CONC/LINK (PPM)							
						N	O	P	Q	R	S	T	
1. NE3	*	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2. SE3	*	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3. SW3	*	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.1	
4. NW3	*	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.1	
5. NE7	*	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	
6. SE7	*	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7. SW7	*	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8. NW7	*	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: MAIN STREET AND NORTHBOUND I-405 OFF-RAMP PM NP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	7	-450	7	-150	* AG	695	3.5	.0	15.0
B. NA	7	-150	7	0	* AG	667	5.0	.0	13.5
C. ND	7	0	7	150	* AG	762	3.8	.0	9.9
D. NE	7	150	7	450	* AG	762	3.5	.0	15.0
E. SF	-7	450	-7	150	* AG	1326	3.5	.0	15.0
F. SA	-7	150	-7	0	* AG	1326	5.2	.0	13.5
G. SD	-7	0	-7	-150	* AG	1345	3.9	.0	9.9
H. SE	-7	-150	-7	-450	* AG	1345	3.5	.0	15.0
I. WF	450	0	150	0	* AG	266	3.5	.0	15.0
J. WA	150	0	0	0	* AG	182	8.6	.0	9.9
K. WD	0	540	0	570	* AG	180	7.7	.0	9.9
L. WE	0	540	0	570	* AG	180	3.5	.0	15.0
M. EF	0	540	0	570	* AG	0	3.5	.0	10.5
N. EA	0	540	0	570	* AG	0	8.6	.0	9.9
O. ED	0	540	0	570	* AG	0	7.7	.0	9.9
P. EE	0	540	0	570	* AG	0	3.5	.0	10.5
Q. NL	0	0	5	-150	* AG	28	5.0	.0	9.9
R. SL	0	0	-5	150	* AG	0	5.0	.0	9.9
S. WL	0	0	150	2	* AG	84	8.6	.0	9.9
T. EL	0	-570	0	-540	* AG	0	8.6	.0	9.9

SE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	A	B	C	D	E	F	G	H
1. NE3	185.	1.1	.0	.6	.0	.0	.0	.0	.0	.3
2. SE3	352.	1.0	.0	.0	.4	.0	.2	.3	.0	.0
3. SW3	5.	1.4	.0	.0	.0	.2	.1	1.1	.0	.0
4. NW3	5.	1.5	.0	.0	.0	.2	.2	1.1	.0	.0
5. NE7	187.	.9	.0	.4	.0	.0	.0	.0	.0	.2
6. SE7	352.	.8	.0	.0	.3	.0	.2	.2	.0	.0
7. SW7	6.	1.0	.0	.0	.0	.2	.1	.6	.0	.0
8. NW7	7.	.9	.0	.0	.0	.2	.1	.6	.0	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	* I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. SE3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4. NW3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5. NE7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. SE7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. SW7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. NW7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: MAIN STREET AND NORTHBOUND I-405 OFF-RAMP PM WP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	LINK COORDINATES (M) Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	* 7	-450	7	-150	* AG	835	3.5	.0	15.0
B. NA	* 7	-150	7	0	* AG	807	5.2	.0	13.5
C. ND	* 7	0	7	150	* AG	902	3.8	.0	9.9
D. NE	* 7	150	7	450	* AG	902	3.5	.0	15.0
E. SF	* -7	450	-7	150	* AG	1473	3.5	.0	15.0
F. SA	* -7	150	-7	0	* AG	1473	5.3	.0	13.5
G. SD	* -7	0	-7	-150	* AG	1524	4.1	.0	9.9
H. SE	* -7	-150	-7	-450	* AG	1524	3.5	.0	15.0
I. WF	* 450	0	150	0	* AG	298	3.5	.0	15.0
J. WA	* 150	0	0	0	* AG	182	8.6	.0	9.9
K. WD	* 0	540	0	570	* AG	180	8.3	.0	9.9
L. WE	* 0	540	0	570	* AG	180	3.5	.0	15.0
M. EF	* 0	540	0	570	* AG	0	3.5	.0	10.5
N. EA	* 0	540	0	570	* AG	0	8.6	.0	9.9
O. ED	* 0	540	0	570	* AG	0	8.3	.0	9.9
P. EE	* 0	540	0	570	* AG	0	3.5	.0	10.5
Q. NL	* 0	0	5	-150	* AG	28	5.0	.0	9.9
R. SL	* 0	0	-5	150	* AG	0	5.0	.0	9.9
S. WL	* 0	0	150	2	* AG	116	8.6	.0	9.9
T. EL	* 0	-570	0	-540	* AG	0	8.6	.0	9.9

SE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	A	B	C	CONC/LINK (PPM)					H
						D	E	F	G		
1. NE3	* 185.	* 1.3	* .0	.7	.0	.0	.0	.0	.0	.0	.3
2. SE3	* 352.	* 1.2	* .0	.0	.5	.0	.2	.3	.0	.0	.0
3. SW3	* 5.	* 1.6	* .0	.0	.0	.2	.2	1.2	.0	.0	.0
4. NW3	* 5.	* 1.7	* .0	.0	.0	.2	.2	1.2	.0	.0	.0
5. NE7	* 187.	* 1.0	* .0	.4	.0	.0	.0	.0	.0	.0	.2
6. SE7	* 352.	* .9	* .0	.0	.3	.0	.2	.2	.0	.0	.0
7. SW7	* 6.	* 1.1	* .0	.0	.0	.2	.1	.7	.0	.0	.0
8. NW7	* 7.	* 1.0	* .0	.0	.0	.2	.1	.7	.0	.0	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	* I	J	K	L	M	CONC/LINK (PPM)							T
						N	O	P	Q	R	S		
1. NE3	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. SE3	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW3	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4. NW3	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5. NE7	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. SE7	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. SW7	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. NW7	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: MAIN STREET AND SOUTHBOUND I-405 ON-RAMP AM NP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	LINK COORDINATES (M) Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	* 7	-450	7	-150	* AG	829	3.5	.0	15.0
B. NA	* 7	-150	7	0	* AG	829	5.2	.0	9.9
C. ND	* 7	0	7	150	* AG	799	3.8	.0	9.9
D. NE	* 7	150	7	450	* AG	799	3.5	.0	15.0
E. SF	* -7	450	-7	150	* AG	806	3.5	.0	15.0
F. SA	* -7	150	-7	0	* AG	708	5.0	.0	13.5
G. SD	* -7	0	-7	-150	* AG	720	3.8	.0	9.9
H. SE	* -7	-150	-7	-450	* AG	720	3.5	.0	15.0
I. WF	* 0	540	0	570	* AG	0	3.5	.0	10.5
J. WA	* 0	540	0	570	* AG	0	8.6	.0	9.9
K. WD	* 0	540	0	570	* AG	0	8.6	.0	9.9
L. WE	* 0	540	0	570	* AG	0	3.5	.0	10.5
M. EF	* -450	-2	-150	-2	* AG	150	3.5	.0	10.5
N. EA	* -150	-2	0	-2	* AG	121	8.6	.0	9.9
O. ED	* 0	540	0	570	* AG	266	8.6	.0	9.9
P. EE	* 0	540	0	570	* AG	266	3.5	.0	10.5
Q. NL	* 0	0	5	-150	* AG	0	5.0	.0	9.9
R. SL	* 0	0	-5	150	* AG	98	5.0	.0	9.9
S. WL	* 0	-570	0	-540	* AG	0	8.6	.0	9.9
T. EL	* 0	0	-150	-2	* AG	29	8.6	.0	9.9

SE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	A	B	C	D	E	F	G	H
1. NE3	* 186.	* .9	* .0	.6	.0	.0	.0	.0	.0	.1
2. SE3	* 186.	* .9	* .0	.6	.0	.0	.0	.0	.0	.2
3. SW3	* 5.	* 1.0	* .0	.0	.0	.2	.0	.6	.0	.0
4. NW3	* 5.	* 1.0	* .0	.0	.0	.2	.1	.6	.0	.0
5. NE7	* 186.	* .7	* .0	.4	.0	.0	.0	.0	.0	.2
6. SE7	* 187.	* .6	* .0	.4	.0	.0	.0	.0	.0	.2
7. SW7	* 6.	* .8	* .0	.0	.0	.2	.0	.4	.0	.0
8. NW7	* 7.	* .7	* .0	.0	.0	.2	.0	.3	.0	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	* I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. SE3	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW3	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4. NW3	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5. NE7	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. SE7	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. SW7	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. NW7	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: MAIN STREET AND SOUTHBOUND I-405 ON-RAMP AM WP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	LINK COORDINATES (M) Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	* 7	-450	7	-150	* AG	911	3.5	.0	15.0
B. NA	* 7	-150	7	0	* AG	911	5.3	.0	9.9
C. ND	* 7	0	7	150	* AG	864	3.8	.0	9.9
D. NE	* 7	150	7	450	* AG	864	3.5	.0	15.0
E. SF	* -7	450	-7	150	* AG	889	3.5	.0	15.0
F. SA	* -7	150	-7	0	* AG	791	5.2	.0	13.5
G. SD	* -7	0	-7	-150	* AG	803	3.8	.0	9.9
H. SE	* -7	-150	-7	-450	* AG	803	3.5	.0	15.0
I. WF	* 0	540	0	570	* AG	0	3.5	.0	10.5
J. WA	* 0	540	0	570	* AG	0	8.6	.0	9.9
K. WD	* 0	540	0	570	* AG	0	8.6	.0	9.9
L. WE	* 0	540	0	570	* AG	0	3.5	.0	10.5
M. EF	* -450	-2	-150	-2	* AG	150	3.5	.0	10.5
N. EA	* -150	-2	0	-2	* AG	121	8.6	.0	9.9
O. ED	* 0	540	0	570	* AG	283	8.6	.0	9.9
P. EE	* 0	540	0	570	* AG	283	3.5	.0	10.5
Q. NL	* 0	0	5	-150	* AG	0	5.0	.0	9.9
R. SL	* 0	0	-5	150	* AG	98	5.0	.0	9.9
S. WL	* 0	-570	0	-540	* AG	0	8.6	.0	9.9
T. EL	* 0	0	-150	-2	* AG	29	8.6	.0	9.9

SE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	A	B	C	D	E	F	G	H
1. NE3	* 186.	* 1.0	* .0	.7	.0	.0	.0	.0	.0	.2
2. SE3	* 186.	* 1.0	* .0	.7	.0	.0	.0	.0	.0	.2
3. SW3	* 5.	* 1.1	* .0	.0	.0	.2	.1	.7	.0	.0
4. NW3	* 5.	* 1.1	* .0	.0	.0	.2	.1	.7	.0	.0
5. NE7	* 186.	* .7	* .0	.4	.0	.0	.0	.0	.0	.2
6. SE7	* 187.	* .7	* .0	.4	.0	.0	.0	.0	.0	.2
7. SW7	* 6.	* .8	* .0	.0	.0	.2	.0	.4	.0	.0
8. NW7	* 7.	* .7	* .0	.0	.0	.2	.0	.4	.0	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	* I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. SE3	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW3	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4. NW3	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5. NE7	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. SE7	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. SW7	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. NW7	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: MAIN STREET AND SOUTHBOUND I-405 ON-RAMP PM NP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	LINK COORDINATES (M) Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	* 7	-450	7	-150	* AG	741	3.5	.0	15.0
B. NA	* 7	-150	7	0	* AG	741	5.2	.0	9.9
C. ND	* 7	0	7	150	* AG	679	3.8	.0	9.9
D. NE	* 7	150	7	450	* AG	679	3.5	.0	15.0
E. SF	* -7	450	-7	150	* AG	1356	3.5	.0	15.0
F. SA	* -7	150	-7	0	* AG	1070	5.2	.0	13.5
G. SD	* -7	0	-7	-150	* AG	1134	3.8	.0	9.9
H. SE	* -7	-150	-7	-450	* AG	1134	3.5	.0	15.0
I. WF	* 0	540	0	570	* AG	0	3.5	.0	10.5
J. WA	* 0	540	0	570	* AG	0	8.6	.0	9.9
K. WD	* 0	540	0	570	* AG	0	7.3	.0	9.9
L. WE	* 0	540	0	570	* AG	0	3.5	.0	10.5
M. EF	* -450	-2	-150	-2	* AG	326	3.5	.0	10.5
N. EA	* -150	-2	0	-2	* AG	280	8.6	.0	9.9
O. ED	* 0	540	0	570	* AG	610	8.6	.0	9.9
P. EE	* 0	540	0	570	* AG	610	3.5	.0	10.5
Q. NL	* 0	0	5	-150	* AG	0	5.0	.0	9.9
R. SL	* 0	0	-5	150	* AG	286	5.2	.0	9.9
S. WL	* 0	-570	0	-540	* AG	0	8.6	.0	9.9
T. EL	* 0	0	-150	-2	* AG	46	8.6	.0	9.9

SE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	A	B	C	D	E	F	G	H
1. NE3	* 352.	* .9	* .0	* .0	* .4	* .0	* .2	* .2	* .0	* .0
2. SE3	* 352.	* .9	* .0	* .0	* .4	* .0	* .2	* .2	* .0	* .0
3. SW3	* 5.	* 1.5	* .0	* .0	* .0	* .2	* .1	* .9	* .0	* .0
4. NW3	* 5.	* 1.4	* .0	* .0	* .0	* .2	* .2	* .9	* .0	* .0
5. NE7	* 262.	* .7	* .0	* .0	* .1	* .0	* .0	* .2	* .0	* .0
6. SE7	* 276.	* .8	* .0	* .2	* .0	* .0	* .0	* .1	* .0	* .0
7. SW7	* 6.	* 1.1	* .0	* .0	* .0	* .1	* .1	* .5	* .0	* .0
8. NW7	* 7.	* .9	* .0	* .0	* .0	* .1	* .1	* .5	* .0	* .0

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	* I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. SE3	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
3. SW3	* .0	.0	.0	.0	.0	.2	.0	.0	.0	.1	.0	.0
4. NW3	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
5. NE7	* .0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0
6. SE7	* .0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0
7. SW7	* .0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
8. NW7	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: MAIN STREET AND SOUTBOUND I-405 ON-RAMP PM WP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                  AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	LINK COORDINATES (M) Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	* 7	-450	7	-150	* AG	909	3.5	.0	15.0
B. NA	* 7	-150	7	0	* AG	909	5.3	.0	9.9
C. ND	* 7	0	7	150	* AG	820	3.8	.0	9.9
D. NE	* 7	150	7	450	* AG	820	3.5	.0	15.0
E. SF	* -7	450	-7	150	* AG	1535	3.5	.0	15.0
F. SA	* -7	150	-7	0	* AG	1249	5.2	.0	13.5
G. SD	* -7	0	-7	-150	* AG	1313	3.9	.0	9.9
H. SE	* -7	-150	-7	-450	* AG	1313	3.5	.0	15.0
I. WF	* 0	540	0	570	* AG	0	3.5	.0	10.5
J. WA	* 0	540	0	570	* AG	0	8.6	.0	9.9
K. WD	* 0	540	0	570	* AG	0	7.7	.0	9.9
L. WE	* 0	540	0	570	* AG	0	3.5	.0	10.5
M. EF	* -450	-2	-150	-2	* AG	326	3.5	.0	10.5
N. EA	* -150	-2	0	-2	* AG	280	8.6	.0	9.9
O. ED	* 0	540	0	570	* AG	637	8.6	.0	9.9
P. EE	* 0	540	0	570	* AG	637	3.5	.0	10.5
Q. NL	* 0	0	5	-150	* AG	0	5.0	.0	9.9
R. SL	* 0	0	-5	150	* AG	286	5.2	.0	9.9
S. WL	* 0	-570	0	-540	* AG	0	8.6	.0	9.9
T. EL	* 0	0	-150	-2	* AG	46	8.6	.0	9.9

SE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	A	B	C	D	E	F	G	H
1. NE3	* 186.	* 1.1	* .0	.7	.0	.0	.0	.0	.1	.2
2. SE3	* 352.	* 1.0	* .0	.0	.4	.0	.2	.3	.0	.0
3. SW3	* 5.	* 1.7	* .0	.0	.0	.2	.2	1.0	.0	.0
4. NW3	* 5.	* 1.6	* .0	.0	.0	.2	.2	1.0	.0	.0
5. NE7	* 262.	* .8	* .0	.0	.2	.0	.0	.2	.0	.0
6. SE7	* 350.	* .8	* .0	.0	.3	.0	.1	.3	.0	.0
7. SW7	* 6.	* 1.2	* .0	.0	.0	.2	.1	.6	.0	.0
8. NW7	* 7.	* 1.0	* .0	.0	.0	.2	.1	.6	.0	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	* I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. SE3	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
3. SW3	* .0	.0	.0	.0	.0	.2	.0	.0	.0	.1	.0	.0
4. NW3	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
5. NE7	* .0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0
6. SE7	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
7. SW7	* .0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
8. NW7	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: VERMONT AVENUE AND DEL AMO BOULEVARD AM NP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	LINK COORDINATES (M) Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	* 7	-450	7	-150	* AG	954	3.5	.0	15.0
B. NA	* 7	-150	7	0	* AG	945	5.5	.0	13.5
C. ND	* 7	0	7	150	* AG	1149	4.0	.0	9.9
D. NE	* 7	150	7	450	* AG	1149	3.5	.0	15.0
E. SF	* -7	450	-7	150	* AG	485	3.5	.0	15.0
F. SA	* -7	150	-7	0	* AG	407	5.3	.0	13.5
G. SD	* -7	0	-7	-150	* AG	586	3.8	.0	9.9
H. SE	* -7	-150	-7	-450	* AG	586	3.5	.0	15.0
I. WF	* 450	7	150	7	* AG	602	3.5	.0	10.5
J. WA	* 150	7	0	7	* AG	401	6.8	.0	9.9
K. WD	* 0	7	-150	7	* AG	171	4.2	.0	9.9
L. WE	* -150	7	-450	7	* AG	171	3.5	.0	10.5
M. EF	* -450	-5	-150	-5	* AG	250	3.5	.0	15.0
N. EA	* -150	-5	0	-5	* AG	155	6.8	.0	13.5
O. ED	* 0	-5	150	-5	* AG	385	4.2	.0	9.9
P. EE	* 150	-5	450	-5	* AG	385	3.5	.0	15.0
Q. NL	* 0	0	5	-150	* AG	9	5.3	.0	9.9
R. SL	* 0	0	-5	150	* AG	78	5.3	.0	9.9
S. WL	* 0	0	150	7	* AG	201	6.8	.0	9.9
T. EL	* 0	0	-150	-2	* AG	95	6.8	.0	9.9

SE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	A	B	C	D	E	F	G	H
1. NE3	* 185.	* 1.4	* .1	.8	.0	.0	.0	.0	.0	.1
2. SE3	* 353.	* 1.3	* .0	.1	.6	.0	.0	.0	.0	.0
3. SW3	* 81.	* 1.0	* .0	.2	.0	.0	.0	.0	.1	.0
4. NW3	* 94.	* 1.2	* .0	.0	.2	.0	.0	.1	.0	.0
5. NE7	* 186.	* 1.1	* .0	.5	.0	.0	.0	.0	.0	.1
6. SE7	* 354.	* .9	* .0	.0	.4	.1	.1	.0	.0	.0
7. SW7	* 80.	* .8	* .0	.2	.0	.0	.0	.0	.1	.0
8. NW7	* 96.	* .9	* .0	.0	.1	.0	.0	.1	.0	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	* I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	* .0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. SE3	* .0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
3. SW3	* .0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.2	.0
4. NW3	* .0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0
5. NE7	* .0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. SE7	* .0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. SW7	* .0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.1	.0
8. NW7	* .0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0



CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: VERMONT AVENUE AND DEL AMO BOULEVARD AM WP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	* 7	-450	7	-150	* AG	954	3.5	.0	15.0
B. NA	* 7	-150	7	0	* AG	945	5.9	.0	13.5
C. ND	* 7	0	7	150	* AG	1173	4.1	.0	9.9
D. NE	* 7	150	7	450	* AG	1173	3.5	.0	15.0
E. SF	* -7	450	-7	150	* AG	510	3.5	.0	15.0
F. SA	* -7	150	-7	0	* AG	407	5.7	.0	13.5
G. SD	* -7	0	-7	-150	* AG	728	4.0	.0	9.9
H. SE	* -7	-150	-7	-450	* AG	728	3.5	.0	15.0
I. WF	* 450	7	150	7	* AG	788	3.5	.0	10.5
J. WA	* 150	7	0	7	* AG	445	6.5	.0	9.9
K. WD	* 0	7	-150	7	* AG	191	4.1	.0	9.9
L. WE	* -150	7	-450	7	* AG	191	3.5	.0	10.5
M. EF	* -450	-5	-150	-5	* AG	274	3.5	.0	15.0
N. EA	* -150	-5	0	-5	* AG	179	6.5	.0	13.5
O. ED	* 0	-5	150	-5	* AG	434	4.1	.0	9.9
P. EE	* 150	-5	450	-5	* AG	434	3.5	.0	15.0
Q. NL	* 0	0	5	-150	* AG	9	5.7	.0	9.9
R. SL	* 0	0	-5	150	* AG	103	5.7	.0	9.9
S. WL	* 0	0	150	7	* AG	343	6.8	.0	9.9
T. EL	* 0	0	-150	-2	* AG	95	6.5	.0	9.9

SE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	A	B	C	D	E	F	G	H
1. NE3	* 185.	* 1.6	* .1	.8	.0	.0	.0	.0	.0	.2
2. SE3	* 352.	* 1.4	* .0	.2	.7	.0	.0	.1	.0	.0
3. SW3	* 81.	* 1.2	* .0	.2	.0	.0	.0	.0	.2	.0
4. NW3	* 94.	* 1.4	* .0	.0	.2	.0	.0	.1	.0	.0
5. NE7	* 187.	* 1.2	* .0	.6	.0	.0	.0	.0	.0	.1
6. SE7	* 353.	* 1.0	* .0	.0	.4	.0	.1	.0	.0	.0
7. SW7	* 79.	* .9	* .0	.2	.0	.0	.0	.0	.1	.0
8. NW7	* 96.	* 1.1	* .0	.0	.2	.0	.0	.1	.0	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	* I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	* .0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0
2. SE3	* .0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.1	.0
3. SW3	* .0	.2	.0	.0	.0	.0	.3	.0	.0	.0	.3	.0
4. NW3	* .0	.5	.0	.0	.0	.0	.0	.1	.0	.0	.2	.0
5. NE7	* .0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0
6. SE7	* .0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0
7. SW7	* .0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.2	.0
8. NW7	* .0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: VERMONT AVENUE AND DEL AMO BOULEVARD PM NP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	LINK COORDINATES (M) Y1	* X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	* 7	-450	7	-150	* AG	651	3.5	.0	15.0
B. NA	* 7	-150	7	0	* AG	631	5.2	.0	13.5
C. ND	* 7	0	7	150	* AG	686	3.8	.0	9.9
D. NE	* 7	150	7	450	* AG	686	3.5	.0	15.0
E. SF	* -7	450	-7	150	* AG	1431	3.5	.0	15.0
F. SA	* -7	150	-7	0	* AG	1076	5.3	.0	13.5
G. SD	* -7	0	-7	-150	* AG	1287	3.9	.0	9.9
H. SE	* -7	-150	-7	-450	* AG	1287	3.5	.0	15.0
I. WF	* 450	7	150	7	* AG	689	3.5	.0	10.5
J. WA	* 150	7	0	7	* AG	399	7.1	.0	9.9
K. WD	* 0	7	-150	7	* AG	379	4.9	.0	9.9
L. WE	* -150	7	-450	7	* AG	379	3.5	.0	10.5
M. EF	* -450	-5	-150	-5	* AG	290	3.5	.0	15.0
N. EA	* -150	-5	0	-5	* AG	240	7.1	.0	13.5
O. ED	* 0	-5	150	-5	* AG	709	4.9	.0	9.9
P. EE	* 150	-5	450	-5	* AG	709	3.5	.0	15.0
Q. NL	* 0	0	5	-150	* AG	20	5.2	.0	9.9
R. SL	* 0	0	-5	150	* AG	355	5.3	.0	9.9
S. WL	* 0	0	150	7	* AG	290	7.3	.0	9.9
T. EL	* 0	0	-150	-2	* AG	50	7.1	.0	9.9

SE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	B	C	CONC/LINK (PPM)								
						D	E	F	G	H				
1. NE3	* 185.	* 1.4	* .0	.5	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0
2. SE3	* 352.	* 1.5	* .0	.0	.4	.0	.2	.2	.0	.0	.0	.0	.0	.0
3. SW3	* 82.	* 1.5	* .0	.1	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0
4. NW3	* 95.	* 1.7	* .0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0
5. NE7	* 187.	* 1.1	* .0	.4	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0
6. SE7	* 350.	* 1.1	* .0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0
7. SW7	* 80.	* 1.1	* .0	.1	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0
8. NW7	* 97.	* 1.3	* .0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	* I	J	K	L	M	CONC/LINK (PPM)								
						N	O	P	Q	R	S	T		
1. NE3	* .0	.2	.0	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0
2. SE3	* .0	.1	.0	.0	.0	.0	.2	.0	.0	.2	.1	.0	.0	.0
3. SW3	* .0	.2	.0	.0	.0	.0	.5	.0	.0	.0	.2	.0	.0	.0
4. NW3	* .0	.5	.1	.0	.0	.0	.1	.1	.0	.0	.2	.0	.0	.0
5. NE7	* .0	.2	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
6. SE7	* .0	.1	.0	.0	.0	.0	.2	.0	.0	.1	.0	.0	.0	.0
7. SW7	* .0	.2	.0	.0	.0	.0	.4	.0	.0	.0	.2	.0	.0	.0
8. NW7	* .0	.4	.0	.0	.0	.0	.1	.1	.0	.0	.2	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: VERMONT AVENUE AND DEL AMO BOULEVARD PM WP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	7	-450	7	-150	* AG	651	3.5	.0	15.0
B. NA	7	-150	7	0	* AG	631	5.5	.0	13.5
C. ND	7	0	7	150	* AG	742	3.9	.0	9.9
D. NE	7	150	7	450	* AG	742	3.5	.0	15.0
E. SF	-7	450	-7	150	* AG	1490	3.5	.0	15.0
F. SA	-7	150	-7	0	* AG	1076	5.7	.0	13.5
G. SD	-7	0	-7	-150	* AG	1561	4.3	.0	9.9
H. SE	-7	-150	-7	-450	* AG	1561	3.5	.0	15.0
I. WF	450	7	150	7	* AG	1062	3.5	.0	10.5
J. WA	150	7	0	7	* AG	498	6.8	.0	9.9
K. WD	0	7	-150	7	* AG	422	4.3	.0	9.9
L. WE	-150	7	-450	7	* AG	422	3.5	.0	10.5
M. EF	-450	-5	-150	-5	* AG	335	3.5	.0	15.0
N. EA	-150	-5	0	-5	* AG	285	6.8	.0	13.5
O. ED	0	-5	150	-5	* AG	813	4.3	.0	9.9
P. EE	150	-5	450	-5	* AG	813	3.5	.0	15.0
Q. NL	0	0	5	-150	* AG	20	5.5	.0	9.9
R. SL	0	0	-5	150	* AG	414	5.7	.0	9.9
S. WL	0	0	150	7	* AG	564	8.6	.0	9.9
T. EL	0	0	-150	-2	* AG	50	6.8	.0	9.9

SE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	A	B	C	D	E	F	G	H
1. NE3	185.	1.6	.0	.6	.0	.0	.0	.0	.0	.3
2. SE3	351.	1.7	.0	.1	.4	.0	.1	.3	.0	.0
3. SW3	81.	1.9	.0	.1	.0	.0	.0	.0	.4	.0
4. NW3	95.	2.1	.0	.0	.1	.0	.0	.4	.0	.0
5. NE7	188.	1.3	.0	.4	.0	.0	.0	.0	.2	.2
6. SE7	350.	1.3	.0	.0	.3	.0	.1	.3	.0	.0
7. SW7	79.	1.4	.0	.1	.0	.0	.0	.0	.3	.0
8. NW7	96.	1.6	.0	.0	.0	.0	.0	.3	.0	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	* I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	.0	.2	.0	.0	.0	.0	.1	.0	.0	.0	.2	.0
2. SE3	.0	.1	.0	.0	.0	.0	.2	.0	.0	.2	.2	.0
3. SW3	.0	.2	.0	.0	.0	.0	.5	.0	.0	.0	.5	.0
4. NW3	.0	.6	.1	.0	.0	.0	.1	.2	.0	.1	.5	.0
5. NE7	.0	.2	.0	.0	.0	.0	.1	.0	.0	.0	.2	.0
6. SE7	.0	.1	.0	.0	.0	.0	.2	.0	.0	.2	.2	.0
7. SW7	.0	.2	.0	.0	.0	.0	.3	.0	.0	.0	.4	.0
8. NW7	.0	.4	.0	.0	.0	.0	.1	.1	.0	.0	.4	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: AVALON BOULEVARD AND DEL AMO BOULEVARD AM NP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	* Y1	* X2	* Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	11	-450	11	-150	* AG	814	3.5	.0	19.5
B. NA	11	-150	11	0	* AG	703	6.1	.0	18.0
C. ND	11	0	11	150	* AG	779	4.0	.0	13.5
D. NE	11	150	11	450	* AG	779	3.5	.0	19.5
E. SF	* -11	450	-11	150	* AG	905	3.5	.0	19.5
F. SA	* -11	150	-11	0	* AG	730	6.1	.0	22.5
G. SD	* -11	0	-11	-150	* AG	906	4.0	.0	13.5
H. SE	* -11	-150	-11	-450	* AG	906	3.5	.0	19.5
I. WF	* 450	7	150	7	* AG	1046	3.5	.0	15.0
J. WA	* 150	7	0	7	* AG	745	6.3	.0	13.5
K. WD	* 0	7	-150	7	* AG	886	4.1	.0	9.9
L. WE	* -150	7	-450	7	* AG	886	3.5	.0	15.0
M. EF	* -450	-7	-150	-7	* AG	554	3.5	.0	15.0
N. EA	* -150	-7	0	-7	* AG	429	6.3	.0	13.5
O. ED	* 0	-7	150	-7	* AG	748	4.1	.0	9.9
P. EE	* 150	-7	450	-7	* AG	748	3.5	.0	15.0
Q. NL	* 0	0	7	-150	* AG	111	6.1	.0	9.9
R. SL	* 0	0	-7	150	* AG	175	6.1	.0	9.9
S. WL	* 0	0	150	5	* AG	301	6.3	.0	9.9
T. EL	* 0	0	-150	-5	* AG	125	6.3	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	* Y	* Z
1. NE3	21	14	1.8
2. SE3	21	-14	1.8
3. SW3	* -21	-14	1.8
4. NW3	* -21	14	1.8
5. NE7	* 25	18	1.8
6. SE7	* 25	-18	1.8
7. SW7	* -25	-18	1.8
8. NW7	* -25	18	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	* D	* E	* F	* G	* H
1. NE3	* 263.	* 1.4	* .0	* .0	* .2	* .0	* .0	* .1	* .0	* .0
2. SE3	* 350.	* 1.2	* .0	* .1	* .4	* .0	* .1	* .1	* .0	* .0
3. SW3	* 82.	* 1.4	* .0	* .1	* .0	* .0	* .0	* .0	* .2	* .0
4. NW3	* 95.	* 1.5	* .0	* .0	* .0	* .0	* .0	* .2	* .0	* .0
5. NE7	* 188.	* 1.1	* .0	* .4	* .0	* .0	* .0	* .0	* .0	* .2
6. SE7	* 344.	* 1.0	* .0	* .0	* .3	* .0	* .0	* .2	* .0	* .0
7. SW7	* 80.	* 1.1	* .0	* .1	* .0	* .0	* .0	* .0	* .2	* .0
8. NW7	* 97.	* 1.3	* .0	* .0	* .0	* .0	* .0	* .2	* .0	* .0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. NE3	* .0	* .2	* .5	* .0	* .0	* .1	* .0	* .0	* .0	* .0	* .0	* .0
2. SE3	* .0	* .2	* .0	* .0	* .0	* .0	* .2	* .0	* .0	* .0	* .0	* .0
3. SW3	* .1	* .2	* .0	* .0	* .0	* .2	* .4	* .0	* .0	* .0	* .2	* .0
4. NW3	* .1	* .6	* .0	* .0	* .0	* .0	* .0	* .2	* .0	* .0	* .2	* .0
5. NE7	* .0	* .2	* .0	* .0	* .0	* .0	* .1	* .0	* .0	* .0	* .0	* .0
6. SE7	* .0	* .2	* .0	* .0	* .0	* .0	* .2	* .0	* .0	* .0	* .0	* .0
7. SW7	* .0	* .2	* .0	* .0	* .0	* .0	* .3	* .0	* .0	* .0	* .2	* .0
8. NW7	* .0	* .5	* .0	* .0	* .0	* .0	* .0	* .1	* .0	* .0	* .1	* .0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: AVALON BOULEVARD AND DEL AMO BOULEVARD AM WP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	* Y1	* X2	* Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	11	-450	11	-150	* AG	854	3.5	.0	19.5
B. NA	11	-150	11	0	* AG	703	6.1	.0	18.0
C. ND	11	0	11	150	* AG	816	4.1	.0	13.5
D. NE	11	150	11	450	* AG	816	3.5	.0	19.5
E. SF	* -11	450	-11	150	* AG	949	3.5	.0	19.5
F. SA	* -11	150	-11	0	* AG	774	6.1	.0	22.5
G. SD	* -11	0	-11	-150	* AG	977	4.1	.0	13.5
H. SE	* -11	-150	-11	-450	* AG	977	3.5	.0	19.5
I. WF	* 450	7	150	7	* AG	1113	3.5	.0	15.0
J. WA	* 150	7	0	7	* AG	812	6.3	.0	13.5
K. WD	* 0	7	-150	7	* AG	1037	4.1	.0	9.9
L. WE	* -150	7	-450	7	* AG	1037	3.5	.0	15.0
M. EF	* -450	-7	-150	-7	* AG	719	3.5	.0	15.0
N. EA	* -150	-7	0	-7	* AG	557	6.1	.0	13.5
O. ED	* 0	-7	150	-7	* AG	805	4.1	.0	9.9
P. EE	* 150	-7	450	-7	* AG	805	3.5	.0	15.0
Q. NL	* 0	0	7	-150	* AG	151	6.1	.0	9.9
R. SL	* 0	0	-7	150	* AG	175	6.1	.0	9.9
S. WL	* 0	0	150	5	* AG	301	6.3	.0	9.9
T. EL	* 0	0	-150	-5	* AG	162	6.1	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	* Y	* Z
1. NE3	21	14	1.8
2. SE3	21	-14	1.8
3. SW3	* -21	-14	1.8
4. NW3	* -21	14	1.8
5. NE7	* 25	18	1.8
6. SE7	* 25	-18	1.8
7. SW7	* -25	-18	1.8
8. NW7	* -25	18	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	* D	* E	* F	* G	* H
1. NE3	* 263.	* 1.6	* .0	* .0	* .2	* .0	* .0	* .2	* .0	* .0
2. SE3	* 350.	* 1.3	* .0	* .1	* .4	* .0	* .1	* .1	* .0	* .0
3. SW3	* 82.	* 1.6	* .0	* .1	* .0	* .0	* .0	* .0	* .2	* .0
4. NW3	* 95.	* 1.6	* .0	* .0	* .1	* .0	* .0	* .2	* .0	* .0
5. NE7	* 188.	* 1.2	* .0	* .4	* .0	* .0	* .0	* .0	* .0	* .2
6. SE7	* 277.	* 1.1	* .0	* .2	* .0	* .0	* .0	* .0	* .1	* .0
7. SW7	* 79.	* 1.2	* .0	* .1	* .0	* .0	* .0	* .0	* .2	* .0
8. NW7	* 97.	* 1.3	* .0	* .0	* .0	* .0	* .0	* .2	* .0	* .0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. NE3	* .0	* .3	* .5	* .0	* .1	* .1	* .0	* .0	* .0	* .0	* .0	* .0
2. SE3	* .0	* .2	* .0	* .0	* .0	* .0	* .2	* .0	* .0	* .0	* .0	* .0
3. SW3	* .1	* .3	* .0	* .0	* .0	* .2	* .4	* .0	* .0	* .0	* .2	* .0
4. NW3	* .1	* .7	* .0	* .0	* .0	* .0	* .2	* .0	* .0	* .0	* .2	* .0
5. NE7	* .0	* .3	* .0	* .0	* .0	* .0	* .1	* .0	* .0	* .0	* .0	* .0
6. SE7	* .0	* .0	* .0	* .2	* .0	* .4	* .0	* .0	* .0	* .0	* .0	* .0
7. SW7	* .0	* .3	* .0	* .0	* .0	* .0	* .3	* .0	* .0	* .0	* .2	* .0
8. NW7	* .0	* .5	* .0	* .0	* .0	* .0	* .0	* .1	* .0	* .0	* .1	* .0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: AVALON BOULEVARD AND DEL AMO BOULEVARD PM NP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	* Y1	* X2	* Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	* 11	-450	11	-150	* AG	1291	3.5	.0	19.5
B. NA	* 11	-150	11	0	* AG	1186	5.9	.0	18.0
C. ND	* 11	0	11	150	* AG	1324	4.0	.0	13.5
D. NE	* 11	150	11	450	* AG	1324	3.5	.0	19.5
E. SF	* -11	450	-11	150	* AG	1148	3.5	.0	19.5
F. SA	* -11	150	-11	0	* AG	945	5.9	.0	22.5
G. SD	* -11	0	-11	-150	* AG	1075	4.0	.0	13.5
H. SE	* -11	-150	-11	-450	* AG	1075	3.5	.0	19.5
I. WF	* 450	7	150	7	* AG	986	3.5	.0	15.0
J. WA	* 150	7	0	7	* AG	797	6.5	.0	13.5
K. WD	* 0	7	-150	7	* AG	856	4.1	.0	9.9
L. WE	* -150	7	-450	7	* AG	856	3.5	.0	15.0
M. EF	* -450	-7	-150	-7	* AG	1047	3.5	.0	15.0
N. EA	* -150	-7	0	-7	* AG	830	6.5	.0	13.5
O. ED	* 0	-7	150	-7	* AG	1217	4.8	.0	9.9
P. EE	* 150	-7	450	-7	* AG	1217	3.5	.0	15.0
Q. NL	* 0	0	7	-150	* AG	105	5.9	.0	9.9
R. SL	* 0	0	-7	150	* AG	203	5.9	.0	9.9
S. WL	* 0	0	150	5	* AG	189	6.3	.0	9.9
T. EL	* 0	0	-150	-5	* AG	217	6.3	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	* Y	* Z
1. NE3	* 21	14	1.8
2. SE3	* 21	-14	1.8
3. SW3	* -21	-14	1.8
4. NW3	* -21	14	1.8
5. NE7	* 25	18	1.8
6. SE7	* 25	-18	1.8
7. SW7	* -25	-18	1.8
8. NW7	* -25	18	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	* D	* E	* F	* G	* H
1. NE3	* 262.	* 1.8	* .0	* .0	* .3	* .0	* .0	* .2	* .0	* .0
2. SE3	* 351.	* 1.8	* .0	* .2	* .6	* .0	* .2	* .0	* .0	* .0
3. SW3	* 83.	* 2.0	* .0	* .2	* .0	* .0	* .0	* .0	* .2	* .0
4. NW3	* 95.	* 1.8	* .0	* .0	* .2	* .0	* .0	* .3	* .0	* .0
5. NE7	* 188.	* 1.5	* .0	* .7	* .0	* .0	* .0	* .0	* .0	* .2
6. SE7	* 277.	* 1.4	* .0	* .3	* .0	* .0	* .0	* .0	* .1	* .0
7. SW7	* 80.	* 1.4	* .0	* .2	* .0	* .0	* .0	* .0	* .2	* .0
8. NW7	* 97.	* 1.5	* .0	* .0	* .1	* .0	* .0	* .3	* .0	* .0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. NE3	* .0	* .3	* .4	* .0	* .1	* .3	* .0	* .0	* .0	* .0	* .0	* .1
2. SE3	* .0	* .2	* .0	* .0	* .0	* .4	* .0	* .0	* .0	* .0	* .0	* .0
3. SW3	* .1	* .2	* .0	* .0	* .0	* .3	* .7	* .0	* .0	* .0	* .0	* .0
4. NW3	* .0	* .7	* .0	* .0	* .0	* .0	* .2	* .0	* .0	* .0	* .1	* .0
5. NE7	* .0	* .3	* .0	* .0	* .0	* .0	* .2	* .0	* .0	* .0	* .0	* .0
6. SE7	* .0	* .0	* .0	* .1	* .0	* .6	* .0	* .0	* .0	* .0	* .0	* .1
7. SW7	* .0	* .3	* .0	* .0	* .0	* .5	* .0	* .0	* .0	* .0	* .1	* .0
8. NW7	* .0	* .6	* .0	* .0	* .0	* .1	* .2	* .0	* .0	* .0	* .0	* .0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: AVALON BOULEVARD AND DEL AMO BOULEVARD PM WP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	* Y1	* X2	* Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	* 11	-450	11	-150	* AG	1416	3.5	.0	19.5
B. NA	* 11	-150	11	0	* AG	1186	6.1	.0	18.0
C. ND	* 11	0	11	150	* AG	1416	4.1	.0	13.5
D. NE	* 11	150	11	450	* AG	1416	3.5	.0	19.5
E. SF	* -11	450	-11	150	* AG	1242	3.5	.0	19.5
F. SA	* -11	150	-11	0	* AG	1039	6.1	.0	22.5
G. SD	* -11	0	-11	-150	* AG	1121	4.1	.0	13.5
H. SE	* -11	-150	-11	-450	* AG	1121	3.5	.0	19.5
I. WF	* 450	7	150	7	* AG	1132	3.5	.0	15.0
J. WA	* 150	7	0	7	* AG	943	6.3	.0	13.5
K. WD	* 0	7	-150	7	* AG	1221	4.4	.0	9.9
L. WE	* -150	7	-450	7	* AG	1221	3.5	.0	15.0
M. EF	* -450	-7	-150	-7	* AG	1328	3.5	.0	15.0
N. EA	* -150	-7	0	-7	* AG	1019	6.3	.0	13.5
O. ED	* 0	-7	150	-7	* AG	1360	5.0	.0	9.9
P. EE	* 150	-7	450	-7	* AG	1360	3.5	.0	15.0
Q. NL	* 0	0	7	-150	* AG	230	6.1	.0	9.9
R. SL	* 0	0	-7	150	* AG	203	6.1	.0	9.9
S. WL	* 0	0	150	5	* AG	189	6.3	.0	9.9
T. EL	* 0	0	-150	-5	* AG	309	6.3	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	* Y	* Z
1. NE3	* 21	14	1.8
2. SE3	* 21	-14	1.8
3. SW3	* -21	-14	1.8
4. NW3	* -21	14	1.8
5. NE7	* 25	18	1.8
6. SE7	* 25	-18	1.8
7. SW7	* -25	-18	1.8
8. NW7	* -25	18	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	* D	* E	* F	* G	* H
1. NE3	* 262.	* 2.2	* .0	* .0	* .3	* .0	* .0	* .2	* .0	* .0
2. SE3	* 275.	* 2.1	* .0	* .4	* .0	* .0	* .0	* .0	* .1	* .0
3. SW3	* 82.	* 2.2	* .0	* .2	* .0	* .0	* .0	* .0	* .3	* .0
4. NW3	* 96.	* 2.0	* .0	* .0	* .2	* .0	* .0	* .3	* .0	* .0
5. NE7	* 259.	* 1.6	* .0	* .0	* .3	* .0	* .0	* .2	* .0	* .0
6. SE7	* 277.	* 1.7	* .0	* .4	* .0	* .0	* .0	* .0	* .1	* .0
7. SW7	* 80.	* 1.6	* .0	* .2	* .0	* .0	* .0	* .0	* .2	* .0
8. NW7	* 98.	* 1.6	* .0	* .0	* .2	* .0	* .0	* .3	* .0	* .0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. NE3	* .0	* .3	* .6	* .0	* .1	* .3	* .0	* .0	* .0	* .0	* .0	* .2
2. SE3	* .0	* .0	* .0	* .2	* .1	* .9	* .0	* .0	* .0	* .0	* .0	* .2
3. SW3	* .1	* .3	* .0	* .0	* .0	* .4	* .8	* .0	* .0	* .0	* .1	* .0
4. NW3	* .0	* .8	* .0	* .0	* .0	* .2	* .2	* .0	* .0	* .0	* .1	* .0
5. NE7	* .0	* .0	* .5	* .0	* .0	* .3	* .0	* .0	* .0	* .0	* .0	* .2
6. SE7	* .0	* .0	* .1	* .2	* .0	* .7	* .0	* .0	* .0	* .0	* .0	* .1
7. SW7	* .0	* .3	* .0	* .0	* .0	* .6	* .0	* .0	* .0	* .0	* .1	* .0
8. NW7	* .0	* .6	* .0	* .0	* .0	* .2	* .2	* .0	* .0	* .0	* .1	* .0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: FIGUEROA STREET AND DEL AMO BOULEVARD AM NP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	* Y1	* X2	* Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	7	-450	7	-150	* AG	1286	3.5	.0	15.0
B. NA	7	-150	7	0	* AG	1097	6.3	.0	13.5
C. ND	7	0	7	150	* AG	1000	4.1	.0	9.9
D. NE	7	150	7	450	* AG	1000	3.5	.0	15.0
E. SF	-7	450	-7	150	* AG	655	3.5	.0	15.0
F. SA	-7	150	-7	0	* AG	613	6.1	.0	13.5
G. SD	-7	0	-7	-150	* AG	548	4.0	.0	9.9
H. SE	-7	-150	-7	-450	* AG	548	3.5	.0	15.0
I. WF	450	7	150	7	* AG	1072	3.5	.0	15.0
J. WA	150	7	0	7	* AG	916	6.3	.0	13.5
K. WD	0	7	-150	7	* AG	1274	4.4	.0	9.9
L. WE	-150	7	-450	7	* AG	1274	3.5	.0	15.0
M. EF	-450	-7	-150	-7	* AG	708	3.5	.0	15.0
N. EA	-150	-7	0	-7	* AG	599	6.3	.0	13.5
O. ED	0	-7	150	-7	* AG	899	4.1	.0	9.9
P. EE	150	-7	450	-7	* AG	899	3.5	.0	15.0
Q. NL	0	0	5	-150	* AG	189	6.1	.0	9.9
R. SL	0	0	-5	150	* AG	42	6.1	.0	9.9
S. WL	0	0	150	5	* AG	156	6.3	.0	9.9
T. EL	0	0	-150	-5	* AG	109	6.3	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	* Y	* Z
1. NE3	14	14	1.8
2. SE3	14	-14	1.8
3. SW3	-14	-14	1.8
4. NW3	-14	14	1.8
5. NE7	18	18	1.8
6. SE7	18	-18	1.8
7. SW7	-18	-18	1.8
8. NW7	-18	18	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	* D	* E	* F	* G	* H
1. NE3	262.	1.7	.0	.0	.2	.0	.0	.1	.0	.0
2. SE3	352.	1.6	.0	.3	.6	.0	.0	.2	.0	.0
3. SW3	82.	1.6	.0	.3	.0	.0	.0	.0	.1	.0
4. NW3	171.	1.6	.0	.4	.0	.0	.0	.2	.3	.0
5. NE7	187.	1.5	.0	.7	.0	.0	.0	.0	.0	.1
6. SE7	278.	1.3	.0	.4	.0	.0	.0	.0	.0	.0
7. SW7	80.	1.2	.0	.2	.0	.0	.0	.0	.1	.0
8. NW7	97.	1.3	.0	.0	.1	.0	.0	.2	.0	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. NE3	.0	.2	.7	.0	.0	.2	.0	.0	.0	.0	.0	.0
2. SE3	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
3. SW3	.1	.3	.0	.0	.0	.1	.5	.0	.0	.0	.0	.0
4. NW3	.0	.0	.3	.0	.0	.1	.0	.0	.1	.0	.0	.0
5. NE7	.0	.3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
6. SE7	.0	.0	.1	.2	.0	.4	.0	.0	.0	.0	.0	.0
7. SW7	.0	.3	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0
8. NW7	.0	.6	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0



CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: FIGUEROA STREET AND DEL AMO BOULEVARD AM WP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	* Y1	* X2	* Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	7	-450	7	-150	* AG	1419	3.5	.0	15.0
B. NA	7	-150	7	0	* AG	1230	6.8	.0	13.5
C. ND	7	0	7	150	* AG	1021	4.3	.0	9.9
D. NE	7	150	7	450	* AG	1021	3.5	.0	15.0
E. SF	-7	450	-7	150	* AG	680	3.5	.0	15.0
F. SA	-7	150	-7	0	* AG	613	6.3	.0	13.5
G. SD	-7	0	-7	-150	* AG	851	4.1	.0	9.9
H. SE	-7	-150	-7	-450	* AG	851	3.5	.0	15.0
I. WF	450	7	150	7	* AG	1614	3.5	.0	15.0
J. WA	150	7	0	7	* AG	1155	6.3	.0	13.5
K. WD	0	7	-150	7	* AG	1492	4.4	.0	9.9
L. WE	-150	7	-450	7	* AG	1492	3.5	.0	15.0
M. EF	-450	-7	-150	-7	* AG	880	3.5	.0	15.0
N. EA	-150	-7	0	-7	* AG	771	6.1	.0	13.5
O. ED	0	-7	150	-7	* AG	1229	4.2	.0	9.9
P. EE	150	-7	450	-7	* AG	1229	3.5	.0	15.0
Q. NL	0	0	5	-150	* AG	189	6.3	.0	9.9
R. SL	0	0	-5	150	* AG	67	6.3	.0	9.9
S. WL	0	0	150	5	* AG	459	6.3	.0	9.9
T. EL	0	0	-150	-5	* AG	109	5.9	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	* Y	* Z
1. NE3	14	14	1.8
2. SE3	14	-14	1.8
3. SW3	-14	-14	1.8
4. NW3	-14	14	1.8
5. NE7	18	18	1.8
6. SE7	18	-18	1.8
7. SW7	-18	-18	1.8
8. NW7	-18	18	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	* D	* E	* F	* G	* H
1. NE3	185.	2.4	.1	1.2	.0	.0	.0	.0	.0	.2
2. SE3	351.	2.0	.0	.3	.6	.0	.0	.2	.0	.0
3. SW3	81.	2.2	.0	.3	.0	.0	.0	.0	.2	.0
4. NW3	95.	2.2	.0	.0	.2	.0	.0	.2	.0	.0
5. NE7	187.	1.9	.0	.8	.0	.0	.0	.0	.0	.1
6. SE7	278.	1.6	.0	.4	.0	.0	.0	.0	.1	.0
7. SW7	79.	1.6	.0	.3	.0	.0	.0	.0	.2	.0
8. NW7	98.	1.7	.0	.0	.1	.0	.0	.2	.0	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. NE3	.0	.5	.0	.0	.0	.0	.2	.0	.1	.0	.1	.0
2. SE3	.0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.1	.0
3. SW3	.1	.4	.0	.0	.0	.2	.7	.0	.0	.0	.3	.0
4. NW3	.2	1.0	.0	.0	.0	.0	.2	.0	.0	.2	.0	.0
5. NE7	.0	.4	.0	.0	.0	.0	.2	.0	.0	.0	.1	.0
6. SE7	.0	.0	.2	.2	.0	.5	.0	.0	.0	.0	.0	.0
7. SW7	.0	.4	.0	.0	.0	.0	.5	.0	.0	.0	.2	.0
8. NW7	.0	.8	.0	.0	.0	.0	.1	.2	.0	.0	.2	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: FIGUEROA STREET AND DEL AMO BOULEVARD PM NP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	* Y1	* X2	* Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	7	-450	7	-150	* AG	874	3.5	.0	15.0
B. NA	7	-150	7	0	* AG	793	6.5	.0	13.5
C. ND	7	0	7	150	* AG	734	4.1	.0	9.9
D. NE	7	150	7	450	* AG	734	3.5	.0	15.0
E. SF	-7	450	-7	150	* AG	989	3.5	.0	15.0
F. SA	-7	150	-7	0	* AG	926	6.5	.0	13.5
G. SD	-7	0	-7	-150	* AG	1196	4.6	.0	9.9
H. SE	-7	-150	-7	-450	* AG	1196	3.5	.0	15.0
I. WF	450	7	150	7	* AG	1184	3.5	.0	15.0
J. WA	150	7	0	7	* AG	798	6.1	.0	13.5
K. WD	0	7	-150	7	* AG	1167	4.2	.0	9.9
L. WE	-150	7	-450	7	* AG	1167	3.5	.0	15.0
M. EF	-450	-7	-150	-7	* AG	1041	3.5	.0	15.0
N. EA	-150	-7	0	-7	* AG	931	6.1	.0	13.5
O. ED	0	-7	150	-7	* AG	991	4.1	.0	9.9
P. EE	150	-7	450	-7	* AG	991	3.5	.0	15.0
Q. NL	0	0	5	-150	* AG	81	6.3	.0	9.9
R. SL	0	0	-5	150	* AG	63	6.3	.0	9.9
S. WL	0	0	150	5	* AG	386	6.3	.0	9.9
T. EL	0	0	-150	-5	* AG	110	5.9	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	* Y	* Z
1. NE3	14	14	1.8
2. SE3	14	-14	1.8
3. SW3	-14	-14	1.8
4. NW3	-14	14	1.8
5. NE7	18	18	1.8
6. SE7	18	-18	1.8
7. SW7	-18	-18	1.8
8. NW7	-18	18	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	* D	* E	* F	* G	* H
1. NE3	262.	1.7	.0	.0	.2	.0	.0	.2	.0	.0
2. SE3	275.	1.9	.0	.3	.0	.0	.0	.0	.2	.0
3. SW3	81.	1.9	.0	.2	.0	.0	.0	.0	.3	.0
4. NW3	172.	1.9	.1	.2	.0	.0	.0	.2	.7	.0
5. NE7	188.	1.4	.0	.6	.0	.0	.0	.0	.1	.2
6. SE7	277.	1.5	.0	.3	.0	.0	.0	.0	.2	.0
7. SW7	79.	1.4	.0	.2	.0	.0	.0	.0	.3	.0
8. NW7	97.	1.4	.0	.0	.1	.0	.0	.3	.0	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. NE3	.0	.2	.6	.0	.1	.3	.0	.0	.0	.0	.0	.0
2. SE3	.0	.0	.0	.2	.1	.8	.0	.0	.0	.0	.0	.0
3. SW3	.0	.3	.0	.0	.0	.2	.5	.0	.0	.0	.2	.0
4. NW3	.0	.0	.3	.0	.0	.2	.0	.0	.0	.0	.0	.0
5. NE7	.0	.3	.0	.0	.0	.0	.1	.0	.0	.0	.1	.0
6. SE7	.0	.0	.0	.2	.0	.6	.0	.0	.0	.0	.0	.0
7. SW7	.0	.3	.0	.0	.0	.0	.4	.0	.0	.0	.2	.0
8. NW7	.0	.5	.0	.0	.0	.0	.0	.2	.0	.0	.2	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: FIGUEROA STREET AND DEL AMO BOULEVARD PM WP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	LINK COORDINATES (M) Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	* 7	-450	7	-150	* AG	1257	3.5	.0	15.0
B. NA	* 7	-150	7	0	* AG	1176	7.3	.0	13.5
C. ND	* 7	0	7	150	* AG	778	4.4	.0	9.9
D. NE	* 7	150	7	450	* AG	778	3.5	.0	15.0
E. SF	* -7	450	-7	150	* AG	1035	3.5	.0	15.0
F. SA	* -7	150	-7	0	* AG	926	7.1	.0	13.5
G. SD	* -7	0	-7	-150	* AG	1840	8.6	.0	9.9
H. SE	* -7	-150	-7	-450	* AG	1840	3.5	.0	15.0
I. WF	* 450	7	150	7	* AG	2321	3.5	.0	15.0
J. WA	* 150	7	0	7	* AG	1291	5.7	.0	13.5
K. WD	* 0	7	-150	7	* AG	1616	4.3	.0	9.9
L. WE	* -150	7	-450	7	* AG	1616	3.5	.0	15.0
M. EF	* -450	-7	-150	-7	* AG	1420	3.5	.0	15.0
N. EA	* -150	-7	0	-7	* AG	1310	5.7	.0	13.5
O. ED	* 0	-7	150	-7	* AG	1799	4.6	.0	9.9
P. EE	* 150	-7	450	-7	* AG	1799	3.5	.0	15.0
Q. NL	* 0	0	5	-150	* AG	81	6.8	.0	9.9
R. SL	* 0	0	-5	150	* AG	109	6.8	.0	9.9
S. WL	* 0	0	150	5	* AG	1030	8.3	.0	9.9
T. EL	* 0	0	-150	-5	* AG	110	5.5	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	COORDINATES (M) Y	Z
1. NE3	* 14	14	1.8
2. SE3	* 14	-14	1.8
3. SW3	* -14	-14	1.8
4. NW3	* -14	14	1.8
5. NE7	* 18	18	1.8
6. SE7	* 18	-18	1.8
7. SW7	* -18	-18	1.8
8. NW7	* -18	18	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	A	B	C	D	E	F	G	H
1. NE3	* 187.	* 3.1	* .0	1.2	.0	.0	.0	.0	.4	.2
2. SE3	* 349.	* 2.5	* .0	.4	.4	.0	.0	.4	.0	.0
3. SW3	* 81.	* 3.7	* .0	.3	.0	.0	.0	.0	.9	.0
4. NW3	* 172.	* 3.5	* .1	.4	.0	.0	.0	.2	1.9	.0
5. NE7	* 191.	* 2.6	* .0	.9	.0	.0	.0	.0	.6	.0
6. SE7	* 277.	* 2.2	* .0	.4	.0	.0	.0	.0	.5	.0
7. SW7	* 78.	* 2.8	* .0	.3	.0	.0	.0	.0	.8	.0
8. NW7	* 170.	* 2.5	* .0	.4	.0	.0	.0	.0	1.3	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	* .0	.5	.0	.0	.0	.0	.3	.0	.0	.0	.4	.0
2. SE3	* .0	.3	.0	.0	.0	.0	.5	.0	.0	.0	.4	.0
3. SW3	* .1	.4	.0	.0	.0	.3	1.0	.0	.0	.0	.6	.0
4. NW3	* .0	.0	.4	.0	.0	.3	.0	.0	.0	.0	.0	.0
5. NE7	* .0	.4	.0	.0	.0	.0	.2	.0	.0	.0	.3	.0
6. SE7	* .0	.0	.1	.2	.0	.7	.0	.0	.0	.0	.0	.0
7. SW7	* .0	.4	.0	.0	.0	.7	.0	.0	.0	.0	.6	.0
8. NW7	* .0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: HAMILTON AVENUE AND 110 SOUTHBOUND RAMPS AM NP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	* Y1	* X2	* Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	* 5	-450	5	-150	* AG	238	3.5	.0	10.5
B. NA	* 5	-150	5	0	* AG	238	6.1	.0	9.9
C. ND	* 5	0	5	150	* AG	520	4.1	.0	9.9
D. NE	* 5	150	5	450	* AG	520	3.5	.0	10.5
E. SF	* -2	450	-2	150	* AG	447	3.5	.0	15.0
F. SA	* -2	150	-2	0	* AG	78	6.1	.0	9.9
G. SD	* -2	0	-2	-150	* AG	902	4.1	.0	9.9
H. SE	* -2	-150	-2	-450	* AG	902	3.5	.0	15.0
I. WF	* 450	2	150	2	* AG	1256	3.5	.0	15.0
J. WA	* 150	2	0	2	* AG	432	6.1	.0	9.9
K. WD	* 0	540	0	570	* AG	0	4.0	.0	9.9
L. WE	* 0	540	0	570	* AG	0	3.5	.0	10.5
M. EF	* 0	540	0	570	* AG	0	3.5	.0	10.5
N. EA	* 0	540	0	570	* AG	0	6.1	.0	9.9
O. ED	* 0	-5	150	-5	* AG	519	4.1	.0	9.9
P. EE	* 150	-5	450	-5	* AG	519	3.5	.0	10.5
Q. NL	* 0	-570	0	-540	* AG	0	6.1	.0	9.9
R. SL	* 0	0	0	150	* AG	369	6.5	.0	9.9
S. WL	* 0	0	150	0	* AG	824	6.5	.0	9.9
T. EL	* 0	-570	0	-540	* AG	0	6.1	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	* Y	* Z
1. NE3	* 10	10	1.8
2. SE3	* 10	-10	1.8
3. SW3	* -10	-10	1.8
4. NW3	* -10	10	1.8
5. NE7	* 14	14	1.8
6. SE7	* 14	-14	1.8
7. SW7	* -14	-14	1.8
8. NW7	* -14	14	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	* D	* E	* F	* G	* H
1. NE3	* 185.	* 1.4	* .0	* .3	* .0	* .0	* .0	* .0	* .3	* .1
2. SE3	* 355.	* 1.5	* .0	* .0	* .4	* .0	* .0	* .0	* .0	* .0
3. SW3	* 85.	* 1.7	* .0	* .0	* .0	* .0	* .0	* .0	* .2	* .0
4. NW3	* 96.	* 1.5	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0
5. NE7	* 186.	* 1.0	* .0	* .2	* .0	* .0	* .0	* .0	* .2	* .1
6. SE7	* 354.	* 1.1	* .0	* .0	* .3	* .0	* .0	* .0	* .0	* .0
7. SW7	* 83.	* 1.3	* .0	* .0	* .0	* .0	* .0	* .0	* .2	* .0
8. NW7	* 97.	* 1.2	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. NE3	* .0	* .2	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .3	* .0
2. SE3	* .0	* .1	* .0	* .0	* .0	* .0	* .2	* .0	* .0	* .3	* .3	* .0
3. SW3	* .2	* .2	* .0	* .0	* .0	* .0	* .4	* .0	* .0	* .0	* .5	* .0
4. NW3	* .0	* .4	* .0	* .0	* .0	* .0	* .1	* .0	* .0	* .1	* .6	* .0
5. NE7	* .0	* .1	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .2	* .0
6. SE7	* .0	* .1	* .0	* .0	* .0	* .0	* .1	* .0	* .0	* .2	* .2	* .0
7. SW7	* .1	* .2	* .0	* .0	* .0	* .0	* .3	* .0	* .0	* .0	* .4	* .0
8. NW7	* .0	* .3	* .0	* .0	* .0	* .0	* .1	* .0	* .0	* .1	* .4	* .0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: HAMILTON AVENUE AND 110 SOUTHBOUND RAMPS AM WP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	* Y1	* X2	* Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	* 5	-450	5	-150	* AG	267	3.5	.0	10.5
B. NA	* 5	-150	5	0	* AG	267	6.3	.0	9.9
C. ND	* 5	0	5	150	* AG	641	4.3	.0	9.9
D. NE	* 5	150	5	450	* AG	641	3.5	.0	10.5
E. SF	* -2	450	-2	150	* AG	478	3.5	.0	15.0
F. SA	* -2	150	-2	0	* AG	78	6.1	.0	9.9
G. SD	* -2	0	-2	-150	* AG	928	4.1	.0	9.9
H. SE	* -2	-150	-2	-450	* AG	928	3.5	.0	15.0
I. WF	* 450	2	150	2	* AG	1403	3.5	.0	15.0
J. WA	* 150	2	0	2	* AG	553	6.3	.0	9.9
K. WD	* 0	540	0	570	* AG	0	4.0	.0	9.9
L. WE	* 0	540	0	570	* AG	0	3.5	.0	10.5
M. EF	* 0	540	0	570	* AG	0	3.5	.0	10.5
N. EA	* 0	540	0	570	* AG	0	6.1	.0	9.9
O. ED	* 0	-5	150	-5	* AG	579	4.3	.0	9.9
P. EE	* 150	-5	450	-5	* AG	579	3.5	.0	10.5
Q. NL	* 0	-570	0	-540	* AG	0	6.1	.0	9.9
R. SL	* 0	0	0	150	* AG	400	6.5	.0	9.9
S. WL	* 0	0	150	0	* AG	850	6.5	.0	9.9
T. EL	* 0	-570	0	-540	* AG	0	6.1	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	* Y	* Z
1. NE3	* 10	10	1.8
2. SE3	* 10	-10	1.8
3. SW3	* -10	-10	1.8
4. NW3	* -10	10	1.8
5. NE7	* 14	14	1.8
6. SE7	* 14	-14	1.8
7. SW7	* -14	-14	1.8
8. NW7	* -14	14	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	* D	* E	* F	* G	* H
1. NE3	* 185.	* 1.5	* .0	* .4	* .1	* .0	* .0	* .0	* .3	* .1
2. SE3	* 355.	* 1.7	* .0	* .0	* .5	* .0	* .0	* .0	* .0	* .0
3. SW3	* 84.	* 1.8	* .0	* .0	* .0	* .0	* .0	* .0	* .2	* .0
4. NW3	* 96.	* 1.7	* .0	* .0	* .1	* .0	* .0	* .0	* .0	* .0
5. NE7	* 186.	* 1.1	* .0	* .2	* .0	* .0	* .0	* .0	* .2	* .1
6. SE7	* 354.	* 1.2	* .0	* .0	* .3	* .0	* .0	* .0	* .0	* .0
7. SW7	* 83.	* 1.4	* .0	* .0	* .0	* .0	* .0	* .0	* .2	* .0
8. NW7	* 97.	* 1.3	* .0	* .0	* .1	* .0	* .0	* .0	* .0	* .0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. NE3	* .0	* .2	* .0	* .0	* .0	* .0	* .1	* .0	* .0	* .0	* .3	* .0
2. SE3	* .0	* .2	* .0	* .0	* .0	* .0	* .2	* .0	* .0	* .3	* .3	* .0
3. SW3	* .1	* .3	* .0	* .0	* .0	* .0	* .5	* .0	* .0	* .0	* .6	* .0
4. NW3	* .0	* .5	* .0	* .0	* .0	* .0	* .2	* .0	* .0	* .1	* .6	* .0
5. NE7	* .0	* .2	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .2	* .0
6. SE7	* .0	* .1	* .0	* .0	* .0	* .0	* .1	* .0	* .0	* .2	* .2	* .0
7. SW7	* .1	* .2	* .0	* .0	* .0	* .0	* .3	* .0	* .0	* .0	* .4	* .0
8. NW7	* .0	* .4	* .0	* .0	* .0	* .0	* .1	* .0	* .0	* .1	* .4	* .0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: HAMILTON AVENUE AND 110 SOUTHBOUND RAMPS PM NP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	* Y1	* X2	* Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	* 5	-450	5	-150	* AG	504	3.5	.0	10.5
B. NA	* 5	-150	5	0	* AG	504	6.8	.0	9.9
C. ND	* 5	0	5	150	* AG	346	4.1	.0	9.9
D. NE	* 5	150	5	450	* AG	346	3.5	.0	10.5
E. SF	* -2	450	-2	150	* AG	870	3.5	.0	15.0
F. SA	* -2	150	-2	0	* AG	121	6.1	.0	9.9
G. SD	* -2	0	-2	-150	* AG	711	4.1	.0	9.9
H. SE	* -2	-150	-2	-450	* AG	711	3.5	.0	15.0
I. WF	* 450	2	150	2	* AG	854	3.5	.0	15.0
J. WA	* 150	2	0	2	* AG	264	6.1	.0	9.9
K. WD	* 0	540	0	570	* AG	0	4.0	.0	9.9
L. WE	* 0	540	0	570	* AG	0	3.5	.0	10.5
M. EF	* 0	540	0	570	* AG	0	3.5	.0	10.5
N. EA	* 0	540	0	570	* AG	0	6.1	.0	9.9
O. ED	* 0	-5	150	-5	* AG	1171	7.3	.0	9.9
P. EE	* 150	-5	450	-5	* AG	1171	3.5	.0	10.5
Q. NL	* 0	-570	0	-540	* AG	0	6.1	.0	9.9
R. SL	* 0	0	0	150	* AG	749	7.7	.0	9.9
S. WL	* 0	0	150	0	* AG	590	6.3	.0	9.9
T. EL	* 0	-570	0	-540	* AG	0	6.1	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	* Y	* Z
1. NE3	* 10	10	1.8
2. SE3	* 10	-10	1.8
3. SW3	* -10	-10	1.8
4. NW3	* -10	10	1.8
5. NE7	* 14	14	1.8
6. SE7	* 14	-14	1.8
7. SW7	* -14	-14	1.8
8. NW7	* -14	14	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	* D	* E	* F	* G	* H
1. NE3	* 184.	* 1.8	* .0	* .7	* .0	* .0	* .0	* .0	* .2	* .1
2. SE3	* 85.	* 2.6	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0
3. SW3	* 85.	* 2.6	* .0	* .2	* .0	* .0	* .0	* .0	* .2	* .0
4. NW3	* 97.	* 1.8	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0
5. NE7	* 186.	* 1.3	* .0	* .4	* .0	* .0	* .0	* .0	* .2	* .1
6. SE7	* 353.	* 1.5	* .0	* .0	* .2	* .0	* .0	* .0	* .0	* .0
7. SW7	* 83.	* 1.8	* .0	* .1	* .0	* .0	* .0	* .0	* .1	* .0
8. NW7	* 99.	* 1.5	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. NE3	* .0	* .0	* .0	* .0	* .0	* .0	* .4	* .0	* .0	* .0	* .2	* .0
2. SE3	* .2	* .1	* .0	* .0	* .0	* .0	* 1.8	* .1	* .0	* .0	* .3	* .0
3. SW3	* .1	* .1	* .0	* .0	* .0	* .0	* 1.5	* .0	* .0	* .0	* .4	* .0
4. NW3	* .0	* .3	* .0	* .0	* .0	* .0	* .6	* .1	* .0	* .3	* .4	* .0
5. NE7	* .0	* .0	* .0	* .0	* .0	* .0	* .3	* .0	* .0	* .0	* .2	* .0
6. SE7	* .0	* .0	* .0	* .0	* .0	* .0	* .5	* .0	* .0	* .5	* .2	* .0
7. SW7	* .0	* .1	* .0	* .0	* .0	* .0	* 1.0	* .0	* .0	* .0	* .3	* .0
8. NW7	* .0	* .2	* .0	* .0	* .0	* .0	* .5	* .0	* .0	* .3	* .3	* .0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: HAMILTON AVENUE AND 110 SOUTHBOUND RAMPS PM WP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	* Y1	* X2	* Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	* 5	-450	5	-150	* AG	574	3.5	.0	10.5
B. NA	* 5	-150	5	0	* AG	574	7.1	.0	9.9
C. ND	* 5	0	5	150	* AG	621	4.3	.0	9.9
D. NE	* 5	150	5	450	* AG	621	3.5	.0	10.5
E. SF	* -2	450	-2	150	* AG	945	3.5	.0	15.0
F. SA	* -2	150	-2	0	* AG	121	6.1	.0	9.9
G. SD	* -2	0	-2	-150	* AG	775	4.1	.0	9.9
H. SE	* -2	-150	-2	-450	* AG	775	3.5	.0	15.0
I. WF	* 450	2	150	2	* AG	1193	3.5	.0	15.0
J. WA	* 150	2	0	2	* AG	539	6.3	.0	9.9
K. WD	* 0	540	0	570	* AG	0	4.0	.0	9.9
L. WE	* 0	540	0	570	* AG	0	3.5	.0	10.5
M. EF	* 0	540	0	570	* AG	0	3.5	.0	10.5
N. EA	* 0	540	0	570	* AG	0	6.1	.0	9.9
O. ED	* 0	-5	150	-5	* AG	1316	7.3	.0	9.9
P. EE	* 150	-5	450	-5	* AG	1316	3.5	.0	10.5
Q. NL	* 0	-570	0	-540	* AG	0	6.1	.0	9.9
R. SL	* 0	0	0	150	* AG	824	8.6	.0	9.9
S. WL	* 0	0	150	0	* AG	654	6.3	.0	9.9
T. EL	* 0	-570	0	-540	* AG	0	6.1	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	* Y	* Z
1. NE3	* 10	10	1.8
2. SE3	* 10	-10	1.8
3. SW3	* -10	-10	1.8
4. NW3	* -10	10	1.8
5. NE7	* 14	14	1.8
6. SE7	* 14	-14	1.8
7. SW7	* -14	-14	1.8
8. NW7	* -14	14	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	* D	* E	* F	* G	* H
1. NE3	* 184.	* 2.1	* .0	* .8	* .0	* .0	* .0	* .0	* .2	* .2
2. SE3	* 85.	* 3.0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0
3. SW3	* 85.	* 3.0	* .0	* .2	* .0	* .0	* .0	* .0	* .2	* .0
4. NW3	* 97.	* 2.3	* .0	* .0	* .1	* .0	* .0	* .0	* .0	* .0
5. NE7	* 186.	* 1.5	* .0	* .5	* .0	* .0	* .0	* .0	* .2	* .1
6. SE7	* 353.	* 1.9	* .0	* .0	* .3	* .0	* .1	* .0	* .0	* .0
7. SW7	* 83.	* 2.1	* .0	* .2	* .0	* .0	* .0	* .0	* .2	* .0
8. NW7	* 99.	* 1.8	* .0	* .0	* .1	* .0	* .0	* .0	* .0	* .0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. NE3	* .0	* .2	* .0	* .0	* .0	* .0	* .4	* .0	* .0	* .0	* .2	* .0
2. SE3	* .2	* .2	* .0	* .0	* .0	* .0	* 2.0	* .1	* .0	* .0	* .4	* .0
3. SW3	* .2	* .3	* .0	* .0	* .0	* .0	* 1.7	* .0	* .0	* .0	* .4	* .0
4. NW3	* .0	* .5	* .0	* .0	* .0	* .0	* .6	* .1	* .0	* .4	* .5	* .0
5. NE7	* .0	* .2	* .0	* .0	* .0	* .0	* .4	* .0	* .0	* .0	* .2	* .0
6. SE7	* .0	* .1	* .0	* .0	* .0	* .0	* .5	* .0	* .0	* .6	* .2	* .0
7. SW7	* .1	* .2	* .0	* .0	* .0	* .0	* 1.1	* .0	* .0	* .0	* .3	* .0
8. NW7	* .0	* .4	* .0	* .0	* .0	* .0	* .6	* .0	* .0	* .3	* .4	* .0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: MAIN STREET AND DEL AMO BOULEVARD AM NP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	* Y1	* X2	* Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	7	-450	7	-150	* AG	952	3.5	.0	15.0
B. NA	7	-150	7	0	* AG	889	6.5	.0	13.5
C. ND	7	0	7	150	* AG	809	4.1	.0	9.9
D. NE	7	150	7	450	* AG	809	3.5	.0	15.0
E. SF	-7	450	-7	150	* AG	718	3.5	.0	15.0
F. SA	-7	150	-7	0	* AG	645	6.3	.0	13.5
G. SD	-7	0	-7	-150	* AG	776	4.1	.0	9.9
H. SE	-7	-150	-7	-450	* AG	776	3.5	.0	15.0
I. WF	450	9	150	9	* AG	1133	3.5	.0	19.5
J. WA	150	9	0	9	* AG	905	5.9	.0	18.0
K. WD	0	9	-150	9	* AG	1014	4.0	.0	13.5
L. WE	-150	9	-450	9	* AG	1014	3.5	.0	19.5
M. EF	-450	-9	-150	-9	* AG	909	3.5	.0	19.5
N. EA	-150	-9	0	-9	* AG	793	5.9	.0	18.0
O. ED	0	-9	150	-9	* AG	1113	4.0	.0	13.5
P. EE	150	-9	450	-9	* AG	1113	3.5	.0	19.5
Q. NL	0	0	5	-150	* AG	63	6.3	.0	9.9
R. SL	0	0	-5	150	* AG	73	6.3	.0	9.9
S. WL	0	0	150	5	* AG	228	5.9	.0	9.9
T. EL	0	0	-150	-5	* AG	116	5.9	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	* Y	* Z
1. NE3	14	19	1.8
2. SE3	14	-19	1.8
3. SW3	-14	-19	1.8
4. NW3	-14	19	1.8
5. NE7	18	23	1.8
6. SE7	18	-23	1.8
7. SW7	-18	-23	1.8
8. NW7	-18	23	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	* D	* E	* F	* G	* H
1. NE3	185.	1.7	.0	.8	.0	.0	.0	.0	.0	.2
2. SE3	352.	1.6	.0	.3	.4	.0	.0	.2	.0	.0
3. SW3	81.	1.5	.0	.2	.0	.0	.0	.0	.2	.0
4. NW3	172.	1.5	.1	.3	.0	.0	.0	.2	.4	.0
5. NE7	187.	1.4	.0	.6	.0	.0	.0	.0	.0	.1
6. SE7	278.	1.2	.0	.3	.0	.0	.0	.0	.1	.0
7. SW7	77.	1.1	.0	.2	.0	.0	.0	.0	.2	.0
8. NW7	98.	1.2	.0	.0	.1	.0	.0	.2	.0	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. NE3	.0	.3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
2. SE3	.0	.2	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0
3. SW3	.1	.2	.0	.0	.0	.0	.1	.5	.0	.0	.0	.0
4. NW3	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0
5. NE7	.0	.3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
6. SE7	.0	.0	.0	.2	.0	.5	.0	.0	.0	.0	.0	.0
7. SW7	.0	.2	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0
8. NW7	.0	.5	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0



CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: MAIN STREET AND DEL AMO BOULEVARD AM WP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	* Y1	* X2	* Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	7	-450	7	-150	* AG	1097	3.5	.0	15.0
B. NA	7	-150	7	0	* AG	959	6.8	.0	13.5
C. ND	7	0	7	150	* AG	891	4.3	.0	9.9
D. NE	7	150	7	450	* AG	891	3.5	.0	15.0
E. SF	-7	450	-7	150	* AG	801	3.5	.0	15.0
F. SA	-7	150	-7	0	* AG	645	6.5	.0	13.5
G. SD	-7	0	-7	-150	* AG	802	4.3	.0	9.9
H. SE	-7	-150	-7	-450	* AG	802	3.5	.0	15.0
I. WF	450	9	150	9	* AG	1644	3.5	.0	19.5
J. WA	150	9	0	9	* AG	1390	5.7	.0	18.0
K. WD	0	9	-150	9	* AG	1555	4.0	.0	13.5
L. WE	-150	9	-450	9	* AG	1555	3.5	.0	19.5
M. EF	-450	-9	-150	-9	* AG	1238	3.5	.0	19.5
N. EA	-150	-9	0	-9	* AG	1122	5.7	.0	18.0
O. ED	0	-9	150	-9	* AG	1532	4.0	.0	13.5
P. EE	150	-9	450	-9	* AG	1532	3.5	.0	19.5
Q. NL	0	0	5	-150	* AG	138	6.5	.0	9.9
R. SL	0	0	-5	150	* AG	156	6.5	.0	9.9
S. WL	0	0	150	5	* AG	254	5.7	.0	9.9
T. EL	0	0	-150	-5	* AG	116	5.5	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	* Y	* Z
1. NE3	14	19	1.8
2. SE3	14	-19	1.8
3. SW3	-14	-19	1.8
4. NW3	-14	19	1.8
5. NE7	18	23	1.8
6. SE7	18	-23	1.8
7. SW7	-18	-23	1.8
8. NW7	-18	23	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	* D	* E	* F	* G	* H
1. NE3	185.	2.1	.1	.9	.0	.0	.0	.0	.0	.2
2. SE3	352.	1.9	.0	.3	.5	.0	.0	.2	.0	.0
3. SW3	81.	1.9	.0	.2	.0	.0	.0	.0	.2	.0
4. NW3	96.	2.0	.0	.0	.1	.0	.0	.3	.0	.0
5. NE7	187.	1.7	.0	.7	.0	.0	.0	.0	.0	.1
6. SE7	278.	1.5	.0	.3	.0	.0	.0	.0	.1	.0
7. SW7	77.	1.4	.0	.2	.0	.0	.0	.0	.2	.0
8. NW7	98.	1.6	.0	.0	.1	.0	.0	.2	.0	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. NE3	.0	.5	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
2. SE3	.0	.3	.0	.0	.0	.0	.3	.0	.0	.1	.0	.0
3. SW3	.2	.2	.0	.0	.0	.0	.2	.7	.0	.0	.0	.0
4. NW3	.1	1.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0
5. NE7	.0	.4	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
6. SE7	.0	.0	.0	.2	.0	.6	.0	.0	.0	.0	.0	.0
7. SW7	.0	.3	.0	.0	.0	.0	.5	.0	.0	.0	.1	.0
8. NW7	.0	.7	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: MAIN STREET AND DEL AMO BOULEVARD PM NP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	* Y1	* X2	* Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	7	-450	7	-150	* AG	757	3.5	.0	15.0
B. NA	7	-150	7	0	* AG	733	6.5	.0	13.5
C. ND	7	0	7	150	* AG	668	4.1	.0	9.9
D. NE	7	150	7	450	* AG	668	3.5	.0	15.0
E. SF	-7	450	-7	150	* AG	1014	3.5	.0	15.0
F. SA	-7	150	-7	0	* AG	905	6.5	.0	13.5
G. SD	-7	0	-7	-150	* AG	1114	4.9	.0	9.9
H. SE	-7	-150	-7	-450	* AG	1114	3.5	.0	15.0
I. WF	450	9	150	9	* AG	1244	3.5	.0	19.5
J. WA	150	9	0	9	* AG	1009	5.9	.0	18.0
K. WD	0	9	-150	9	* AG	1081	4.0	.0	13.5
L. WE	-150	9	-450	9	* AG	1081	3.5	.0	19.5
M. EF	-450	-9	-150	-9	* AG	977	3.5	.0	19.5
N. EA	-150	-9	0	-9	* AG	856	5.7	.0	18.0
O. ED	0	-9	150	-9	* AG	1129	4.0	.0	13.5
P. EE	150	-9	450	-9	* AG	1129	3.5	.0	19.5
Q. NL	0	0	5	-150	* AG	24	6.5	.0	9.9
R. SL	0	0	-5	150	* AG	109	6.5	.0	9.9
S. WL	0	0	150	5	* AG	235	5.7	.0	9.9
T. EL	0	0	-150	-5	* AG	121	5.7	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	* Y	* Z
1. NE3	14	19	1.8
2. SE3	14	-19	1.8
3. SW3	-14	-19	1.8
4. NW3	-14	19	1.8
5. NE7	18	23	1.8
6. SE7	18	-23	1.8
7. SW7	-18	-23	1.8
8. NW7	-18	23	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	* D	* E	* F	* G	* H
1. NE3	185.	1.6	.0	.7	.0	.0	.0	.0	.0	.2
2. SE3	351.	1.6	.0	.3	.4	.0	.0	.3	.0	.0
3. SW3	81.	1.6	.0	.2	.0	.0	.0	.0	.3	.0
4. NW3	173.	1.8	.1	.2	.0	.0	.0	.3	.7	.0
5. NE7	188.	1.4	.0	.5	.0	.0	.0	.0	.2	.1
6. SE7	278.	1.2	.0	.3	.0	.0	.0	.0	.2	.0
7. SW7	77.	1.2	.0	.2	.0	.0	.0	.0	.3	.0
8. NW7	98.	1.4	.0	.0	.0	.0	.0	.3	.0	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. NE3	.0	.3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
2. SE3	.0	.2	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0
3. SW3	.2	.2	.0	.0	.0	.0	.1	.5	.0	.0	.0	.0
4. NW3	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0
5. NE7	.0	.3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
6. SE7	.0	.0	.0	.2	.0	.5	.0	.0	.0	.0	.0	.0
7. SW7	.0	.2	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0
8. NW7	.0	.6	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: MAIN STREET AND DEL AMO BOULEVARD PM WP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	* 7	-450	7	-150	* AG	1060	3.5	.0	15.0
B. NA	* 7	-150	7	0	* AG	885	7.1	.0	13.5
C. ND	* 7	0	7	150	* AG	836	4.5	.0	9.9
D. NE	* 7	150	7	450	* AG	836	3.5	.0	15.0
E. SF	* -7	450	-7	150	* AG	1193	3.5	.0	15.0
F. SA	* -7	150	-7	0	* AG	905	7.1	.0	13.5
G. SD	* -7	0	-7	-150	* AG	1141	6.1	.0	9.9
H. SE	* -7	-150	-7	-450	* AG	1141	3.5	.0	15.0
I. WF	* 450	9	150	9	* AG	2287	3.5	.0	19.5
J. WA	* 150	9	0	9	* AG	2025	5.7	.0	18.0
K. WD	* 0	9	-150	9	* AG	2216	4.1	.0	13.5
L. WE	* -150	9	-450	9	* AG	2216	3.5	.0	19.5
M. EF	* -450	-9	-150	-9	* AG	1785	3.5	.0	19.5
N. EA	* -150	-9	0	-9	* AG	1664	5.5	.0	18.0
O. ED	* 0	-9	150	-9	* AG	2132	4.1	.0	13.5
P. EE	* 150	-9	450	-9	* AG	2132	3.5	.0	19.5
Q. NL	* 0	0	5	-150	* AG	175	6.8	.0	9.9
R. SL	* 0	0	-5	150	* AG	288	7.1	.0	9.9
S. WL	* 0	0	150	5	* AG	262	5.5	.0	9.9
T. EL	* 0	0	-150	-5	* AG	121	5.3	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	Y	Z
1. NE3	* 14	19	1.8
2. SE3	* 14	-19	1.8
3. SW3	* -14	-19	1.8
4. NW3	* -14	19	1.8
5. NE7	* 18	23	1.8
6. SE7	* 18	-23	1.8
7. SW7	* -18	-23	1.8
8. NW7	* -18	23	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	A	B	C	D	E	F	G	H
1. NE3	* 261.	* 2.4	* .0	.0	.2	.0	.0	.2	.0	.0
2. SE3	* 351.	* 2.4	* .0	.3	.5	.0	.0	.4	.0	.0
3. SW3	* 81.	* 2.6	* .0	.2	.0	.0	.0	.0	.4	.0
4. NW3	* 172.	* 2.6	* .1	.3	.0	.0	.0	.3	.9	.0
5. NE7	* 188.	* 2.0	* .0	.7	.0	.0	.0	.0	.2	.1
6. SE7	* 278.	* 2.0	* .0	.3	.0	.0	.0	.0	.2	.0
7. SW7	* 75.	* 1.9	* .0	.2	.0	.0	.0	.0	.3	.0
8. NW7	* 98.	* 2.1	* .0	.0	.1	.0	.0	.3	.0	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	* .0	.3	1.0	.0	.2	.2	.0	.0	.0	.0	.0	.0
2. SE3	* .0	.4	.0	.0	.0	.0	.5	.0	.0	.2	.0	.0
3. SW3	* .3	.3	.0	.0	.0	.2	.9	.0	.0	.0	.0	.0
4. NW3	* .0	.0	.5	.0	.0	.3	.0	.0	.1	.0	.0	.0
5. NE7	* .0	.6	.0	.0	.0	.0	.2	.0	.1	.0	.0	.0
6. SE7	* .0	.0	.0	.3	.0	.8	.0	.0	.0	.0	.0	.0
7. SW7	* .0	.5	.0	.0	.0	.0	.7	.0	.0	.0	.1	.0
8. NW7	* .1	1.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: STAMPS DRIVE AND DEL AMO BOULEVARD PM NP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	* Y1	* X2	* Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	7	-450	7	-150	* AG	0	3.5	.0	10.5
B. NA	7	-150	7	0	* AG	0	8.6	.0	13.5
C. ND	7	0	7	150	* AG	0	8.6	.0	9.9
D. NE	7	150	7	450	* AG	0	3.5	.0	10.5
E. SF	-7	450	-7	150	* AG	0	3.5	.0	10.5
F. SA	-7	150	-7	0	* AG	0	8.6	.0	9.9
G. SD	-7	0	-7	-150	* AG	0	8.6	.0	9.9
H. SE	-7	-150	-7	-450	* AG	0	3.5	.0	10.5
I. WF	450	9	150	9	* AG	1133	3.5	.0	15.0
J. WA	150	9	0	9	* AG	1133	5.2	.0	18.0
K. WD	0	9	-150	9	* AG	1133	3.8	.0	9.9
L. WE	-150	9	-450	9	* AG	1133	3.5	.0	15.0
M. EF	-450	-9	-150	-9	* AG	1346	3.5	.0	15.0
N. EA	-150	-9	0	-9	* AG	1346	5.2	.0	18.0
O. ED	0	-9	150	-9	* AG	1346	3.9	.0	9.9
P. EE	150	-9	450	-9	* AG	1346	3.5	.0	15.0
Q. NL	0	0	7	-150	* AG	0	8.6	.0	9.9
R. SL	0	0	-7	150	* AG	0	8.6	.0	9.9
S. WL	0	0	150	7	* AG	0	5.0	.0	9.9
T. EL	0	0	-150	-7	* AG	0	5.0	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	* Y	* Z
1. NE3	12	17	1.8
2. SE3	12	-17	1.8
3. SW3	-12	-17	1.8
4. NW3	-12	17	1.8
5. NE7	16	20	1.8
6. SE7	16	-20	1.8
7. SW7	-16	-20	1.8
8. NW7	-16	20	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	* D	* E	* F	* G	* H
1. NE3	264.	1.2	.0	.0	.0	.0	.0	.0	.0	.0
2. SE3	274.	1.3	.0	.0	.0	.0	.0	.0	.0	.0
3. SW3	274.	1.6	.0	.0	.0	.0	.0	.0	.0	.0
4. NW3	95.	1.2	.0	.0	.0	.0	.0	.0	.0	.0
5. NE7	97.	1.0	.0	.0	.0	.0	.0	.0	.0	.0
6. SE7	276.	1.1	.0	.0	.0	.0	.0	.0	.0	.0
7. SW7	277.	1.1	.0	.0	.0	.0	.0	.0	.0	.0
8. NW7	96.	1.0	.0	.0	.0	.0	.0	.0	.0	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. NE3	.0	.2	.6	.0	.2	.0	.0	.0	.0	.0	.0	.0
2. SE3	.0	.0	.0	.2	.2	1.0	.0	.0	.0	.0	.0	.0
3. SW3	.0	.0	.0	.2	.2	1.1	.0	.0	.0	.0	.0	.0
4. NW3	.1	.8	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0
5. NE7	.1	.6	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0
6. SE7	.0	.0	.0	.2	.1	.7	.0	.0	.0	.0	.0	.0
7. SW7	.0	.0	.0	.2	.1	.7	.0	.0	.0	.0	.0	.0
8. NW7	.1	.6	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: STAMPS DRIVE AND DEL AMO BOULEVARD AM WP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	* 7	-450	7	-150	* AG	632	3.5	.0	10.5
B. NA	* 7	-150	7	0	* AG	152	8.3	.0	13.5
C. ND	* 7	0	7	150	* AG	38	5.2	.0	9.9
D. NE	* 7	150	7	450	* AG	38	3.5	.0	10.5
E. SF	* -7	450	-7	150	* AG	45	3.5	.0	10.5
F. SA	* -7	150	-7	0	* AG	33	8.3	.0	9.9
G. SD	* -7	0	-7	-150	* AG	532	8.6	.0	9.9
H. SE	* -7	-150	-7	-450	* AG	532	3.5	.0	10.5
I. WF	* 450	9	150	9	* AG	1283	3.5	.0	15.0
J. WA	* 150	9	0	9	* AG	1144	5.2	.0	18.0
K. WD	* 0	9	-150	9	* AG	1644	4.1	.0	9.9
L. WE	* -150	9	-450	9	* AG	1644	3.5	.0	15.0
M. EF	* -450	-9	-150	-9	* AG	1764	3.5	.0	15.0
N. EA	* -150	-9	0	-9	* AG	1737	5.2	.0	18.0
O. ED	* 0	-9	150	-9	* AG	1510	4.1	.0	9.9
P. EE	* 150	-9	450	-9	* AG	1510	3.5	.0	15.0
Q. NL	* 0	0	7	-150	* AG	480	8.3	.0	9.9
R. SL	* 0	0	-7	150	* AG	12	8.3	.0	9.9
S. WL	* 0	0	150	7	* AG	139	5.0	.0	9.9
T. EL	* 0	0	-150	-7	* AG	27	5.0	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	Y	Z
1. NE3	* 12	17	1.8
2. SE3	* 12	-17	1.8
3. SW3	* -12	-17	1.8
4. NW3	* -12	17	1.8
5. NE7	* 16	20	1.8
6. SE7	* 16	-20	1.8
7. SW7	* -16	-20	1.8
8. NW7	* -16	20	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	A	B	C	D	E	F	G	H
1. NE3	* 263.	* 1.6	* .0	.0	.0	.0	.0	.0	.0	.0
2. SE3	* 274.	* 2.2	* .0	.0	.0	.0	.0	.0	.2	.0
3. SW3	* 84.	* 2.1	* .0	.0	.0	.0	.0	.0	.3	.0
4. NW3	* 174.	* 2.0	* .1	.0	.0	.0	.0	.0	.8	.0
5. NE7	* 189.	* 1.3	* .0	.2	.0	.0	.0	.0	.2	.0
6. SE7	* 276.	* 1.8	* .0	.0	.0	.0	.0	.0	.2	.0
7. SW7	* 73.	* 1.5	* .0	.0	.0	.0	.0	.0	.3	.0
8. NW7	* 170.	* 1.6	* .0	.0	.0	.0	.0	.0	.5	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	* .0	.2	.9	.0	.3	.2	.0	.0	.0	.0	.0	.0
2. SE3	* .0	.0	.0	.2	.2	1.2	.0	.0	.2	.0	.0	.0
3. SW3	* .2	.0	.0	.0	.0	.3	.8	.0	.2	.0	.0	.0
4. NW3	* .0	.0	.4	.0	.0	.3	.0	.0	.3	.0	.0	.0
5. NE7	* .0	.3	.0	.0	.0	.0	.2	.0	.3	.0	.0	.0
6. SE7	* .0	.0	.0	.3	.2	.9	.0	.0	.2	.0	.0	.0
7. SW7	* .0	.3	.0	.0	.0	.2	.5	.0	.2	.0	.0	.0
8. NW7	* .0	.0	.3	.0	.0	.3	.0	.0	.3	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: STAMPS DRIVE AND DEL AMO BOULEVARD PM NP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	* Y1	* X2	* Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	7	-450	7	-150	* AG	0	3.5	.0	10.5
B. NA	7	-150	7	0	* AG	0	8.6	.0	13.5
C. ND	7	0	7	150	* AG	0	8.6	.0	9.9
D. NE	7	150	7	450	* AG	0	3.5	.0	10.5
E. SF	-7	450	-7	150	* AG	0	3.5	.0	10.5
F. SA	-7	150	-7	0	* AG	0	8.6	.0	9.9
G. SD	-7	0	-7	-150	* AG	0	8.6	.0	9.9
H. SE	-7	-150	-7	-450	* AG	0	3.5	.0	10.5
I. WF	450	9	150	9	* AG	1161	3.5	.0	15.0
J. WA	150	9	0	9	* AG	1161	5.2	.0	18.0
K. WD	0	9	-150	9	* AG	1161	3.8	.0	9.9
L. WE	-150	9	-450	9	* AG	1161	3.5	.0	15.0
M. EF	-450	-9	-150	-9	* AG	739	3.5	.0	15.0
N. EA	-150	-9	0	-9	* AG	739	5.0	.0	18.0
O. ED	0	-9	150	-9	* AG	739	3.8	.0	9.9
P. EE	150	-9	450	-9	* AG	739	3.5	.0	15.0
Q. NL	0	0	7	-150	* AG	0	8.6	.0	9.9
R. SL	0	0	-7	150	* AG	0	8.6	.0	9.9
S. WL	0	0	150	7	* AG	0	5.0	.0	9.9
T. EL	0	0	-150	-7	* AG	0	5.0	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	* Y	* Z
1. NE3	12	17	1.8
2. SE3	12	-17	1.8
3. SW3	-12	-17	1.8
4. NW3	-12	17	1.8
5. NE7	16	20	1.8
6. SE7	16	-20	1.8
7. SW7	-16	-20	1.8
8. NW7	-16	20	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	* D	* E	* F	* G	* H
1. NE3	94.	1.3	.0	.0	.0	.0	.0	.0	.0	.0
2. SE3	83.	.7	.0	.0	.0	.0	.0	.0	.0	.0
3. SW3	83.	.9	.0	.0	.0	.0	.0	.0	.0	.0
4. NW3	94.	1.1	.0	.0	.0	.0	.0	.0	.0	.0
5. NE7	97.	.9	.0	.0	.0	.0	.0	.0	.0	.0
6. SE7	276.	.7	.0	.0	.0	.0	.0	.0	.0	.0
7. SW7	277.	.7	.0	.0	.0	.0	.0	.0	.0	.0
8. NW7	96.	.9	.0	.0	.0	.0	.0	.0	.0	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. NE3	.2	1.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
2. SE3	.2	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0
3. SW3	.2	.1	.0	.0	.0	.0	.1	.4	.0	.0	.0	.0
4. NW3	.2	.8	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
5. NE7	.1	.6	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0
6. SE7	.0	.0	.0	.2	.0	.4	.0	.0	.0	.0	.0	.0
7. SW7	.0	.0	.0	.2	.0	.4	.0	.0	.0	.0	.0	.0
8. NW7	.1	.6	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: STAMPS DRIVE AND DEL AMO BOULEVARD PM WP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	* 7	-450	7	-150	* AG	1234	3.5	.0	10.5
B. NA	* 7	-150	7	0	* AG	256	7.1	.0	13.5
C. ND	* 7	0	7	150	* AG	97	4.3	.0	9.9
D. NE	* 7	150	7	450	* AG	97	3.5	.0	10.5
E. SF	* -7	450	-7	150	* AG	92	3.5	.0	10.5
F. SA	* -7	150	-7	0	* AG	66	7.1	.0	9.9
G. SD	* -7	0	-7	-150	* AG	1272	8.6	.0	9.9
H. SE	* -7	-150	-7	-450	* AG	1272	3.5	.0	10.5
I. WF	* 450	9	150	9	* AG	1526	3.5	.0	15.0
J. WA	* 150	9	0	9	* AG	1189	5.2	.0	18.0
K. WD	* 0	9	-150	9	* AG	2204	4.4	.0	9.9
L. WE	* -150	9	-450	9	* AG	2204	3.5	.0	15.0
M. EF	* -450	-9	-150	-9	* AG	1741	3.5	.0	15.0
N. EA	* -150	-9	0	-9	* AG	1673	5.2	.0	18.0
O. ED	* 0	-9	150	-9	* AG	1020	3.8	.0	9.9
P. EE	* 150	-9	450	-9	* AG	1020	3.5	.0	15.0
Q. NL	* 0	0	7	-150	* AG	978	8.6	.0	9.9
R. SL	* 0	0	-7	150	* AG	26	7.1	.0	9.9
S. WL	* 0	0	150	7	* AG	337	5.0	.0	9.9
T. EL	* 0	0	-150	-7	* AG	68	5.0	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	Y	Z
1. NE3	* 12	17	1.8
2. SE3	* 12	-17	1.8
3. SW3	* -12	-17	1.8
4. NW3	* -12	17	1.8
5. NE7	* 16	20	1.8
6. SE7	* 16	-20	1.8
7. SW7	* -16	-20	1.8
8. NW7	* -16	20	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	A	B	C	D	E	F	G	H
1. NE3	* 187.	* 2.2	* .0	.3	.0	.0	.0	.0	.5	.1
2. SE3	* 275.	* 2.7	* .0	.1	.0	.0	.0	.0	.4	.0
3. SW3	* 173.	* 3.0	* .2	.0	.0	.0	.0	.0	2.3	.0
4. NW3	* 174.	* 3.3	* .2	.0	.0	.0	.0	.0	1.6	.0
5. NE7	* 189.	* 1.9	* .0	.2	.0	.0	.0	.0	.5	.0
6. SE7	* 277.	* 2.3	* .0	.1	.0	.0	.0	.0	.4	.0
7. SW7	* 72.	* 2.0	* .0	.0	.0	.0	.0	.0	.6	.0
8. NW7	* 170.	* 2.7	* .0	.1	.0	.0	.0	.0	1.1	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	* .0	.3	.0	.0	.0	.0	.1	.0	.7	.0	.0	.0
2. SE3	* .0	.0	.0	.3	.2	1.2	.0	.0	.4	.0	.0	.0
3. SW3	* .0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0
4. NW3	* .0	.0	.6	.0	.0	.3	.0	.0	.5	.0	.0	.0
5. NE7	* .0	.3	.0	.0	.0	.0	.1	.0	.6	.0	.0	.0
6. SE7	* .0	.0	.0	.3	.0	.9	.0	.0	.4	.0	.0	.0
7. SW7	* .0	.3	.0	.0	.0	.2	.3	.0	.3	.0	.1	.0
8. NW7	* .0	.0	.5	.0	.0	.3	.0	.0	.6	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: AVALON BOULEVARD AND SOUTHBOUND I-405 RAMPS AM NP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	* Y1	* X2	* Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	* 5	-450	5	-150	* AG	1292	3.5	.0	15.0
B. NA	* 5	-150	5	0	* AG	1292	6.1	.0	9.9
C. ND	* 5	0	5	150	* AG	2061	5.2	.0	9.9
D. NE	* 5	150	5	450	* AG	2061	3.5	.0	15.0
E. SF	* -5	450	-5	150	* AG	929	3.5	.0	15.0
F. SA	* -5	150	-5	0	* AG	929	5.9	.0	9.9
G. SD	* -5	0	-5	-150	* AG	1155	4.0	.0	9.9
H. SE	* -5	-150	-5	-450	* AG	1155	3.5	.0	15.0
I. WF	* 0	540	0	570	* AG	0	3.5	.0	10.5
J. WA	* 0	540	0	570	* AG	0	6.8	.0	9.9
K. WD	* 0	7	-150	7	* AG	289	4.3	.0	9.9
L. WE	* -150	7	-450	7	* AG	289	3.5	.0	10.5
M. EF	* -450	-9	-150	-9	* AG	1284	3.5	.0	15.0
N. EA	* -150	-9	0	-9	* AG	515	7.1	.0	9.9
O. ED	* 0	540	0	570	* AG	0	4.2	.0	9.9
P. EE	* 0	540	0	570	* AG	0	3.5	.0	10.5
Q. NL	* 0	-570	0	-540	* AG	0	5.3	.0	9.9
R. SL	* 0	-570	0	-540	* AG	0	5.3	.0	9.9
S. WL	* 0	-570	0	-540	* AG	0	6.8	.0	9.9
T. EL	* 0	0	-150	-9	* AG	769	7.3	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	* Y	* Z
1. NE3	* 12	14	1.8
2. SE3	* 12	-14	1.8
3. SW3	* -12	-14	1.8
4. NW3	* -12	14	1.8
5. NE7	* 16	18	1.8
6. SE7	* 16	-18	1.8
7. SW7	* -16	-18	1.8
8. NW7	* -16	18	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	* D	* E	* F	* G	* H
1. NE3	* 258.	* 1.8	* .0	* .0	* .6	* .0	* .0	* .2	* .0	* .0
2. SE3	* 274.	* 2.0	* .0	* .5	* .0	* .0	* .0	* .0	* .2	* .0
3. SW3	* 6.	* 2.1	* .0	* .0	* .4	* .3	* .0	* .8	* .0	* .0
4. NW3	* 174.	* 1.7	* .2	* .4	* .0	* .0	* .0	* .0	* .6	* .0
5. NE7	* 257.	* 1.5	* .0	* .0	* .5	* .0	* .0	* .2	* .0	* .0
6. SE7	* 276.	* 1.5	* .0	* .4	* .0	* .0	* .0	* .0	* .2	* .0
7. SW7	* 8.	* 1.6	* .0	* .0	* .4	* .2	* .0	* .5	* .0	* .0
8. NW7	* 172.	* 1.3	* .1	* .3	* .0	* .0	* .0	* .0	* .4	* .0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. NE3	* .0	* .0	* .2	* .0	* .0	* .2	* .0	* .0	* .0	* .0	* .0	* .5
2. SE3	* .0	* .0	* .0	* .0	* .2	* .7	* .0	* .0	* .0	* .0	* .0	* .4
3. SW3	* .0	* .0	* .0	* .0	* .0	* .3	* .0	* .0	* .0	* .0	* .0	* .3
4. NW3	* .0	* .0	* .0	* .0	* .0	* .1	* .0	* .0	* .0	* .0	* .0	* .2
5. NE7	* .0	* .0	* .1	* .0	* .0	* .2	* .0	* .0	* .0	* .0	* .0	* .4
6. SE7	* .0	* .0	* .0	* .0	* .0	* .5	* .0	* .0	* .0	* .0	* .0	* .4
7. SW7	* .0	* .0	* .0	* .0	* .0	* .2	* .0	* .0	* .0	* .0	* .0	* .2
8. NW7	* .0	* .0	* .0	* .0	* .0	* .1	* .0	* .0	* .0	* .0	* .0	* .2



CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: AVALON BOULEVARD AND SOUTHBOUND I-405 RAMPS AM WP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	* Y1	* X2	* Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	5	-450	5	-150	* AG	1416	3.5	.0	15.0
B. NA	5	-150	5	0	* AG	1315	6.3	.0	9.9
C. ND	5	0	5	150	* AG	2093	5.0	.0	9.9
D. NE	5	150	5	450	* AG	2093	3.5	.0	15.0
E. SF	-5	450	-5	150	* AG	1153	3.5	.0	15.0
F. SA	-5	150	-5	0	* AG	1153	5.9	.0	9.9
G. SD	-5	0	-5	-150	* AG	1319	4.1	.0	9.9
H. SE	-5	-150	-5	-450	* AG	1319	3.5	.0	15.0
I. WF	-450	-5	-150	-5	* AG	0	3.5	.0	10.5
J. WA	-150	-5	0	-5	* AG	0	6.8	.0	9.9
K. WD	0	-5	150	-5	* AG	577	6.1	.0	9.9
L. WE	150	-5	450	-5	* AG	577	3.5	.0	10.5
M. EF	-450	-5	-150	-5	* AG	1473	3.5	.0	15.0
N. EA	-150	-5	0	-5	* AG	685	7.1	.0	9.9
O. ED	0	-5	150	-5	* AG	53	4.2	.0	9.9
P. EE	150	-5	450	-5	* AG	53	3.5	.0	10.5
Q. NL	0	-570	0	-540	* AG	101	5.3	.0	9.9
R. SL	0	-570	0	-540	* AG	0	5.3	.0	9.9
S. WL	0	-570	0	-540	* AG	0	6.8	.0	9.9
T. EL	0	0	-150	-5	* AG	788	7.7	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	* Y	* Z
1. NE3	12	10	1.8
2. SE3	12	-10	1.8
3. SW3	-12	-10	1.8
4. NW3	-12	10	1.8
5. NE7	16	14	1.8
6. SE7	16	-14	1.8
7. SW7	-16	-14	1.8
8. NW7	-16	14	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	* D	* E	* F	* G	* H
1. NE3	261.	2.1	.0	.0	.6	.0	.0	.3	.0	.0
2. SE3	274.	2.6	.0	.5	.0	.0	.0	.0	.2	.0
3. SW3	6.	2.3	.0	.0	.4	.3	.0	.9	.0	.0
4. NW3	174.	1.9	.2	.4	.0	.0	.0	.0	.7	.0
5. NE7	260.	1.7	.0	.0	.5	.0	.0	.2	.0	.0
6. SE7	276.	1.8	.0	.4	.0	.0	.0	.0	.2	.0
7. SW7	7.	1.8	.0	.0	.3	.3	.0	.6	.0	.0
8. NW7	172.	1.5	.1	.3	.0	.0	.0	.0	.5	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. NE3	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.7
2. SE3	.0	.0	.2	.0	.2	.9	.0	.0	.0	.0	.0	.6
3. SW3	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.3
4. NW3	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.3
5. NE7	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.5
6. SE7	.0	.0	.0	.0	.1	.6	.0	.0	.0	.0	.0	.5
7. SW7	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.3
8. NW7	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.3

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: AVALON BOULEVARD AND SOUTHBOUND I-405 RAMPS PM NP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                  AMB= .0 PPM  
 SIGTH= 5. DEGREES              TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	* Y1	* X2	* Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	5	-450	5	-150	* AG	1331	3.5	.0	15.0
B. NA	5	-150	5	0	* AG	1331	5.9	.0	9.9
C. ND	5	0	5	150	* AG	1776	4.1	.0	9.9
D. NE	5	150	5	450	* AG	1776	3.5	.0	15.0
E. SF	-5	450	-5	150	* AG	1649	3.5	.0	15.0
F. SA	-5	150	-5	0	* AG	1649	6.3	.0	9.9
G. SD	-5	0	-5	-150	* AG	1603	4.1	.0	9.9
H. SE	-5	-150	-5	-450	* AG	1603	3.5	.0	15.0
I. WF	0	540	0	570	* AG	0	3.5	.0	10.5
J. WA	0	540	0	570	* AG	0	7.7	.0	9.9
K. WD	0	7	-150	7	* AG	553	8.6	.0	9.9
L. WE	-150	7	-450	7	* AG	553	3.5	.0	10.5
M. EF	-450	-9	-150	-9	* AG	952	3.5	.0	15.0
N. EA	-150	-9	0	-9	* AG	507	8.3	.0	9.9
O. ED	0	540	0	570	* AG	0	4.5	.0	9.9
P. EE	0	540	0	570	* AG	0	3.5	.0	10.5
Q. NL	0	-570	0	-540	* AG	0	5.0	.0	9.9
R. SL	0	-570	0	-540	* AG	0	5.0	.0	9.9
S. WL	0	-570	0	-540	* AG	0	7.7	.0	9.9
T. EL	0	0	-150	-9	* AG	445	7.7	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	* Y	* Z
1. NE3	12	14	1.8
2. SE3	12	-14	1.8
3. SW3	-12	-14	1.8
4. NW3	-12	14	1.8
5. NE7	16	18	1.8
6. SE7	16	-18	1.8
7. SW7	-16	-18	1.8
8. NW7	-16	18	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	* D	* E	* F	* G	* H
1. NE3	260.	2.1	.0	.0	.4	.0	.0	.4	.0	.0
2. SE3	275.	2.1	.0	.5	.0	.0	.0	.0	.3	.0
3. SW3	6.	2.6	.0	.0	.3	.2	.0	1.3	.0	.0
4. NW3	174.	2.1	.2	.3	.0	.0	.0	.0	.8	.0
5. NE7	258.	1.7	.0	.0	.3	.0	.0	.4	.0	.0
6. SE7	278.	1.6	.0	.4	.0	.0	.0	.0	.2	.0
7. SW7	7.	1.9	.0	.0	.2	.2	.0	.9	.0	.0
8. NW7	173.	1.6	.2	.3	.0	.0	.0	.0	.6	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. NE3	.0	.0	.7	.0	.0	.2	.0	.0	.0	.0	.0	.3
2. SE3	.0	.0	.0	.1	.0	.8	.0	.0	.0	.0	.0	.3
3. SW3	.0	.0	.2	.0	.0	.3	.0	.0	.0	.0	.0	.2
4. NW3	.0	.0	.3	.0	.0	.1	.0	.0	.0	.0	.0	.2
5. NE7	.0	.0	.5	.0	.0	.2	.0	.0	.0	.0	.0	.3
6. SE7	.0	.0	.1	.0	.0	.5	.0	.0	.0	.0	.0	.3
7. SW7	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.1
8. NW7	.0	.0	.2	.0	.0	.1	.0	.0	.0	.0	.0	.1

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: AVALON BOULEVARD AND SOUTHBOUND I-405 RAMPS PM WP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	* Y1	* X2	* Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	5	-450	5	-150	* AG	1572	3.5	.0	15.0
B. NA	5	-150	5	0	* AG	1400	5.9	.0	9.9
C. ND	5	0	5	150	* AG	1863	4.1	.0	9.9
D. NE	5	150	5	450	* AG	1863	3.5	.0	15.0
E. SF	-5	450	-5	150	* AG	2074	3.5	.0	15.0
F. SA	-5	150	-5	0	* AG	2074	7.3	.0	9.9
G. SD	-5	0	-5	-150	* AG	2016	4.4	.0	9.9
H. SE	-5	-150	-5	-450	* AG	2016	3.5	.0	15.0
I. WF	-450	-5	-150	-5	* AG	0	3.5	.0	10.5
J. WA	-150	-5	0	-5	* AG	0	7.1	.0	9.9
K. WD	0	-5	150	-5	* AG	1121	8.6	.0	9.9
L. WE	150	-5	450	-5	* AG	1121	3.5	.0	10.5
M. EF	-450	-5	-150	-5	* AG	1549	3.5	.0	15.0
N. EA	-150	-5	0	-5	* AG	1061	8.6	.0	9.9
O. ED	0	-5	150	-5	* AG	195	4.3	.0	9.9
P. EE	150	-5	450	-5	* AG	195	3.5	.0	10.5
Q. NL	0	-570	0	-540	* AG	172	5.0	.0	9.9
R. SL	0	-570	0	-540	* AG	0	5.0	.0	9.9
S. WL	0	-570	0	-540	* AG	0	7.1	.0	9.9
T. EL	0	0	-150	-5	* AG	488	7.1	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	* Y	* Z
1. NE3	12	10	1.8
2. SE3	12	-10	1.8
3. SW3	-12	-10	1.8
4. NW3	-12	10	1.8
5. NE7	16	14	1.8
6. SE7	16	-14	1.8
7. SW7	-16	-14	1.8
8. NW7	-16	14	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	* D	* E	* F	* G	* H
1. NE3	261.	2.2	.0	.0	.5	.0	.0	.6	.0	.0
2. SE3	275.	3.4	.0	.5	.0	.0	.0	.0	.3	.0
3. SW3	6.	3.3	.0	.0	.3	.3	.1	1.8	.0	.0
4. NW3	174.	2.3	.2	.3	.0	.0	.0	.0	1.1	.1
5. NE7	260.	1.8	.0	.0	.4	.0	.0	.5	.0	.0
6. SE7	351.	2.0	.0	.0	.6	.0	.1	.6	.0	.0
7. SW7	7.	2.4	.0	.0	.2	.2	.1	1.2	.0	.0
8. NW7	173.	1.8	.2	.3	.0	.0	.0	.0	.7	.1

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. NE3	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.4
2. SE3	.0	.0	.5	.0	.1	1.6	.0	.0	.0	.0	.0	.4
3. SW3	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.2
4. NW3	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.2
5. NE7	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.3
6. SE7	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. SW7	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.2
8. NW7	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.2

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: FIGUEROA STREET AND NORTHBOUND 110 RAMPS AM NP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	* Y1	* X2	* Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	9	-450	9	-150	* AG	1622	3.5	.0	15.0
B. NA	9	-150	9	0	* AG	721	5.0	.0	18.0
C. ND	9	0	9	150	* AG	1292	3.8	.0	9.9
D. NE	9	150	9	450	* AG	1292	3.5	.0	15.0
E. SF	-9	450	-9	150	* AG	549	3.5	.0	15.0
F. SA	-9	150	-9	0	* AG	549	5.0	.0	13.5
G. SD	-9	0	-9	-150	* AG	544	3.8	.0	9.9
H. SE	-9	-150	-9	-450	* AG	544	3.5	.0	15.0
I. WF	0	540	0	570	* AG	0	3.5	.0	10.5
J. WA	0	540	0	570	* AG	0	7.3	.0	9.9
K. WD	0	5	-150	5	* AG	1162	8.6	.0	9.9
L. WE	-150	5	-450	5	* AG	1162	3.5	.0	10.5
M. EF	-450	-5	-150	-5	* AG	827	3.5	.0	15.0
N. EA	-150	-5	0	-5	* AG	256	7.3	.0	9.9
O. ED	0	540	0	570	* AG	0	4.4	.0	9.9
P. EE	0	540	0	570	* AG	0	3.5	.0	10.5
Q. NL	0	0	7	-150	* AG	901	5.3	.0	9.9
R. SL	0	-570	0	-540	* AG	0	5.0	.0	9.9
S. WL	0	-570	0	-540	* AG	0	7.3	.0	9.9
T. EL	0	0	-150	-2	* AG	571	8.6	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	* Y	* Z
1. NE3	17	12	1.8
2. SE3	17	-12	1.8
3. SW3	-17	-12	1.8
4. NW3	-17	12	1.8
5. NE7	20	16	1.8
6. SE7	20	-16	1.8
7. SW7	-20	-16	1.8
8. NW7	-20	16	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	* D	* E	* F	* G	* H
1. NE3	263.	2.4	.0	.0	.3	.0	.0	.0	.0	.0
2. SE3	278.	2.0	.0	.2	.0	.0	.0	.0	.0	.0
3. SW3	279.	1.4	.0	.0	.0	.0	.0	.0	.0	.0
4. NW3	169.	1.9	.0	.2	.0	.0	.0	.0	.3	.0
5. NE7	261.	1.9	.0	.0	.2	.0	.0	.0	.0	.0
6. SE7	280.	1.7	.0	.2	.0	.0	.0	.0	.0	.0
7. SW7	7.	1.3	.0	.0	.0	.2	.0	.3	.0	.0
8. NW7	167.	1.5	.0	.2	.0	.0	.0	.0	.2	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. NE3	.0	.0	1.3	.0	.0	.1	.0	.0	.0	.0	.0	.5
2. SE3	.0	.0	.6	.0	.0	.3	.0	.0	.2	.0	.0	.5
3. SW3	.0	.0	.6	.0	.0	.3	.0	.0	.0	.0	.0	.5
4. NW3	.0	.0	.6	.0	.0	.0	.0	.0	.3	.0	.0	.2
5. NE7	.0	.0	.9	.0	.0	.1	.0	.0	.0	.0	.0	.4
6. SE7	.0	.0	.6	.0	.0	.2	.0	.0	.2	.0	.0	.4
7. SW7	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.2
8. NW7	.0	.0	.5	.0	.0	.0	.0	.0	.3	.0	.0	.2

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: FIGUEROA STREET AND NORTHBOUND 110 RAMPS AM WP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                 AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	* Y1	* X2	* Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	9	-450	9	-150	* AG	1623	3.5	.0	15.0
B. NA	9	-150	9	0	* AG	722	5.0	.0	18.0
C. ND	9	0	9	150	* AG	1425	3.9	.0	9.9
D. NE	9	150	9	450	* AG	1425	3.5	.0	15.0
E. SF	-9	450	-9	150	* AG	851	3.5	.0	15.0
F. SA	-9	150	-9	0	* AG	851	5.2	.0	13.5
G. SD	-9	0	-9	-150	* AG	585	3.8	.0	9.9
H. SE	-9	-150	-9	-450	* AG	585	3.5	.0	15.0
I. WF	0	540	0	570	* AG	0	3.5	.0	10.5
J. WA	0	540	0	570	* AG	0	7.1	.0	9.9
K. WD	0	5	-150	5	* AG	1451	8.6	.0	9.9
L. WE	-150	5	-450	5	* AG	1451	3.5	.0	10.5
M. EF	-450	-5	-150	-5	* AG	987	3.5	.0	15.0
N. EA	-150	-5	0	-5	* AG	284	7.1	.0	9.9
O. ED	0	540	0	570	* AG	0	4.3	.0	9.9
P. EE	0	540	0	570	* AG	0	3.5	.0	10.5
Q. NL	0	0	7	-150	* AG	901	5.3	.0	9.9
R. SL	0	-570	0	-540	* AG	0	5.0	.0	9.9
S. WL	0	-570	0	-540	* AG	0	7.1	.0	9.9
T. EL	0	0	-150	-2	* AG	703	8.6	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	* Y	* Z
1. NE3	17	12	1.8
2. SE3	17	-12	1.8
3. SW3	-17	-12	1.8
4. NW3	-17	12	1.8
5. NE7	20	16	1.8
6. SE7	20	-16	1.8
7. SW7	-20	-16	1.8
8. NW7	-20	16	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	* D	* E	* F	* G	* H
1. NE3	263.	2.9	.0	.0	.3	.0	.0	.2	.0	.0
2. SE3	278.	2.2	.0	.2	.0	.0	.0	.0	.0	.0
3. SW3	5.	2.0	.0	.0	.0	.2	.0	.7	.0	.0
4. NW3	261.	2.4	.0	.0	.0	.0	.0	.0	.0	.0
5. NE7	261.	2.2	.0	.0	.3	.0	.0	.1	.0	.0
6. SE7	280.	1.9	.0	.2	.0	.0	.0	.0	.0	.0
7. SW7	7.	1.6	.0	.0	.0	.2	.0	.5	.0	.0
8. NW7	167.	1.7	.0	.2	.0	.0	.0	.0	.2	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. NE3	.0	.0	1.6	.0	.1	.1	.0	.0	.0	.0	.0	.5
2. SE3	.0	.0	.7	.0	.0	.3	.0	.0	.2	.0	.0	.6
3. SW3	.0	.0	.5	.0	.0	.1	.0	.0	.0	.0	.0	.3
4. NW3	.0	.0	1.6	.0	.0	.1	.0	.0	.0	.0	.0	.5
5. NE7	.0	.0	1.1	.0	.0	.1	.0	.0	.0	.0	.0	.5
6. SE7	.0	.0	.7	.0	.0	.2	.0	.0	.2	.0	.0	.5
7. SW7	.0	.0	.4	.0	.0	.1	.0	.0	.0	.0	.0	.3
8. NW7	.0	.0	.6	.0	.0	.0	.0	.0	.3	.0	.0	.3

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: FIGUEROA STREET AND NORTHBOUND 110 RAMPS PM NP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                      VS= .0 CM/S  
 MIXH= 1000. M                      AMB= .0 PPM  
 SIGTH= 5. DEGREES              TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	* Y1	* X2	* Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	9	-450	9	-150	* AG	1323	3.5	.0	15.0
B. NA	9	-150	9	0	* AG	488	5.0	.0	18.0
C. ND	9	0	9	150	* AG	884	3.8	.0	9.9
D. NE	9	150	9	450	* AG	884	3.5	.0	15.0
E. SF	-9	450	-9	150	* AG	1182	3.5	.0	15.0
F. SA	-9	150	-9	0	* AG	1182	5.2	.0	13.5
G. SD	-9	0	-9	-150	* AG	850	3.8	.0	9.9
H. SE	-9	-150	-9	-450	* AG	850	3.5	.0	15.0
I. WF	0	540	0	570	* AG	0	3.5	.0	10.5
J. WA	0	540	0	570	* AG	0	8.0	.0	9.9
K. WD	0	5	-150	5	* AG	1404	8.6	.0	9.9
L. WE	-150	5	-450	5	* AG	1404	3.5	.0	10.5
M. EF	-450	-5	-150	-5	* AG	633	3.5	.0	15.0
N. EA	-150	-5	0	-5	* AG	237	8.0	.0	9.9
O. ED	0	540	0	570	* AG	0	4.8	.0	9.9
P. EE	0	540	0	570	* AG	0	3.5	.0	10.5
Q. NL	0	0	7	-150	* AG	835	5.2	.0	9.9
R. SL	0	-570	0	-540	* AG	0	5.0	.0	9.9
S. WL	0	-570	0	-540	* AG	0	8.0	.0	9.9
T. EL	0	0	-150	-2	* AG	396	8.6	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	* Y	* Z
1. NE3	17	12	1.8
2. SE3	17	-12	1.8
3. SW3	-17	-12	1.8
4. NW3	-17	12	1.8
5. NE7	20	16	1.8
6. SE7	20	-16	1.8
7. SW7	-20	-16	1.8
8. NW7	-20	16	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	* D	* E	* F	* G	* H
1. NE3	264.	2.5	.0	.0	.2	.0	.0	.2	.0	.0
2. SE3	278.	1.9	.0	.1	.0	.0	.0	.0	.1	.0
3. SW3	5.	2.0	.0	.0	.0	.2	.1	.9	.0	.0
4. NW3	169.	2.1	.0	.1	.0	.0	.0	.2	.4	.0
5. NE7	261.	1.9	.0	.0	.2	.0	.0	.2	.0	.0
6. SE7	281.	1.6	.0	.1	.0	.0	.0	.0	.0	.0
7. SW7	7.	1.6	.0	.0	.0	.2	.0	.6	.0	.0
8. NW7	168.	1.6	.0	.1	.0	.0	.0	.0	.3	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. NE3	.0	.0	1.5	.0	.1	.1	.0	.0	.0	.0	.0	.3
2. SE3	.0	.0	.7	.0	.0	.3	.0	.0	.2	.0	.0	.4
3. SW3	.0	.0	.5	.0	.0	.1	.0	.0	.0	.0	.0	.2
4. NW3	.0	.0	.7	.0	.0	.0	.0	.0	.3	.0	.0	.2
5. NE7	.0	.0	1.1	.0	.0	.1	.0	.0	.0	.0	.0	.3
6. SE7	.0	.0	.7	.0	.0	.2	.0	.0	.2	.0	.0	.3
7. SW7	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.2
8. NW7	.0	.0	.6	.0	.0	.0	.0	.0	.3	.0	.0	.1

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: FIGUEROA STREET AND NORTHBOUND 110 RAMPS PM WP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	* Y1	* X2	* Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	9	-450	9	-150	* AG	1327	3.5	.0	15.0
B. NA	9	-150	9	0	* AG	492	5.0	.0	18.0
C. ND	9	0	9	150	* AG	1267	3.8	.0	9.9
D. NE	9	150	9	450	* AG	1267	3.5	.0	15.0
E. SF	-9	450	-9	150	* AG	1825	3.5	.0	15.0
F. SA	-9	150	-9	0	* AG	1825	5.5	.0	13.5
G. SD	-9	0	-9	-150	* AG	957	3.8	.0	9.9
H. SE	-9	-150	-9	-450	* AG	957	3.5	.0	15.0
I. WF	0	540	0	570	* AG	0	3.5	.0	10.5
J. WA	0	540	0	570	* AG	0	7.3	.0	9.9
K. WD	0	5	-150	5	* AG	2013	8.6	.0	9.9
L. WE	-150	5	-450	5	* AG	2013	3.5	.0	10.5
M. EF	-450	-5	-150	-5	* AG	1085	3.5	.0	15.0
N. EA	-150	-5	0	-5	* AG	310	7.3	.0	9.9
O. ED	0	540	0	570	* AG	0	4.4	.0	9.9
P. EE	0	540	0	570	* AG	0	3.5	.0	10.5
Q. NL	0	0	7	-150	* AG	835	5.2	.0	9.9
R. SL	0	-570	0	-540	* AG	0	5.0	.0	9.9
S. WL	0	-570	0	-540	* AG	0	7.3	.0	9.9
T. EL	0	0	-150	-2	* AG	775	8.6	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	* Y	* Z
1. NE3	17	12	1.8
2. SE3	17	-12	1.8
3. SW3	-17	-12	1.8
4. NW3	-17	12	1.8
5. NE7	20	16	1.8
6. SE7	20	-16	1.8
7. SW7	-20	-16	1.8
8. NW7	-20	16	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	* D	* E	* F	* G	* H
1. NE3	263.	3.5	.0	.0	.3	.0	.0	.3	.0	.0
2. SE3	279.	2.5	.0	.1	.0	.0	.0	.0	.1	.0
3. SW3	5.	2.9	.0	.0	.0	.2	.2	1.4	.0	.0
4. NW3	169.	2.8	.0	.1	.0	.0	.0	.4	.5	.0
5. NE7	261.	2.7	.0	.0	.2	.0	.0	.3	.0	.0
6. SE7	281.	2.1	.0	.1	.0	.0	.0	.0	.1	.0
7. SW7	7.	2.3	.0	.0	.0	.2	.0	.9	.0	.0
8. NW7	137.	2.1	.0	.0	.0	.0	.0	.5	.0	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. NE3	.0	.0	2.0	.0	.1	.2	.0	.0	.0	.0	.0	.6
2. SE3	.0	.0	1.0	.0	.0	.3	.0	.0	.2	.0	.0	.6
3. SW3	.0	.0	.6	.0	.0	.1	.0	.0	.0	.0	.0	.3
4. NW3	.0	.0	1.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
5. NE7	.0	.0	1.4	.0	.0	.2	.0	.0	.0	.0	.0	.5
6. SE7	.0	.0	.9	.0	.0	.3	.0	.0	.2	.0	.0	.5
7. SW7	.0	.0	.6	.0	.0	.1	.0	.0	.0	.0	.0	.3
8. NW7	.0	.0	1.0	.0	.0	.0	.0	.0	.2	.0	.0	.3

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: FIGUEROA STREET AND TORRANCE BOULEVARD AM NP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	* Y1	* X2	* Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	* 5	* -450	* 5	* -150	* AG	934	3.5	.0	15.0
B. NA	* 5	* -150	* 5	* 0	* AG	934	5.3	.0	9.9
C. ND	* 5	* 0	* 5	* 150	* AG	1203	3.8	.0	9.9
D. NE	* 5	* 150	* 5	* 450	* AG	1203	3.5	.0	15.0
E. SF	* -5	* 450	* -5	* 150	* AG	571	3.5	.0	15.0
F. SA	* -5	* 150	* -5	* 0	* AG	571	5.2	.0	9.9
G. SD	* -5	* 0	* -5	* -150	* AG	716	3.8	.0	9.9
H. SE	* -5	* -150	* -5	* -450	* AG	716	3.5	.0	15.0
I. WF	* 450	* 0	* 150	* 0	* AG	414	3.5	.0	10.5
J. WA	* 150	* 0	* 0	* 0	* AG	269	8.6	.0	9.9
K. WD	* 0	* 540	* 0	* 570	* AG	0	4.6	.0	9.9
L. WE	* 0	* 540	* 0	* 570	* AG	0	3.5	.0	10.5
M. EF	* 0	* 540	* 0	* 570	* AG	0	3.5	.0	10.5
N. EA	* 0	* 540	* 0	* 570	* AG	0	7.7	.0	9.9
O. ED	* 0	* 540	* 0	* 570	* AG	0	4.6	.0	9.9
P. EE	* 0	* 540	* 0	* 570	* AG	0	3.5	.0	10.5
Q. NL	* 0	* -570	* 0	* -540	* AG	0	5.0	.0	9.9
R. SL	* 0	* -570	* 0	* -540	* AG	0	5.0	.0	9.9
S. WL	* 0	* 0	* 150	* 0	* AG	145	7.7	.0	9.9
T. EL	* 0	* -570	* 0	* -540	* AG	0	7.7	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	* Y	* Z
1. NE3	* 12	* 5	* 1.8
2. SE3	* 12	* -5	* 1.8
3. SW3	* -12	* -5	* 1.8
4. NW3	* -12	* 5	* 1.8
5. NE7	* 16	* 9	* 1.8
6. SE7	* 16	* -9	* 1.8
7. SW7	* -16	* -9	* 1.8
8. NW7	* -16	* 9	* 1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	* D	* E	* F	* G	* H
1. NE3	* 185.	* 1.3	* .1	* .7	* .0	* .0	* .0	* .0	* .0	* .2
2. SE3	* 355.	* 1.2	* .0	* .0	* .6	* .1	* .1	* .1	* .0	* .0
3. SW3	* 86.	* 1.2	* .0	* .2	* .0	* .0	* .0	* .0	* .2	* .0
4. NW3	* 94.	* 1.2	* .0	* .0	* .2	* .0	* .0	* .2	* .0	* .0
5. NE7	* 186.	* .9	* .1	* .4	* .0	* .0	* .0	* .0	* .0	* .1
6. SE7	* 354.	* .9	* .0	* .0	* .4	* .1	* .1	* .0	* .0	* .0
7. SW7	* 84.	* .8	* .0	* .2	* .0	* .0	* .0	* .0	* .1	* .0
8. NW7	* 96.	* .8	* .0	* .0	* .2	* .0	* .0	* .1	* .0	* .0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. NE3	* .0	* .2	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0
2. SE3	* .0	* .2	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0
3. SW3	* .0	* .5	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .3	* .0
4. NW3	* .0	* .5	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .3	* .0
5. NE7	* .0	* .1	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0
6. SE7	* .0	* .1	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0
7. SW7	* .0	* .3	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .2	* .0
8. NW7	* .0	* .3	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .2	* .0



CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: FIGUEROA STREET AND TORRANCE BOULEVARD AM WP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	* Y1	* X2	* Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	7	-450	7	-150	* AG	976	3.5	.0	15.0
B. NA	7	-150	7	0	* AG	801	6.5	.0	13.5
C. ND	7	0	7	150	* AG	1493	5.5	.0	9.9
D. NE	7	150	7	450	* AG	1493	3.5	.0	15.0
E. SF	-7	450	-7	150	* AG	531	3.5	.0	15.0
F. SA	-7	150	-7	0	* AG	446	6.3	.0	13.5
G. SD	-7	0	-7	-150	* AG	415	4.1	.0	9.9
H. SE	-7	-150	-7	-450	* AG	415	3.5	.0	15.0
I. WF	450	7	150	7	* AG	549	3.5	.0	15.0
J. WA	150	7	0	7	* AG	525	5.9	.0	13.5
K. WD	0	7	-150	7	* AG	788	4.0	.0	9.9
L. WE	-150	7	-450	7	* AG	788	3.5	.0	15.0
M. EF	-450	-7	-150	-7	* AG	1282	3.5	.0	15.0
N. EA	-150	-7	0	-7	* AG	640	5.9	.0	13.5
O. ED	0	-7	150	-7	* AG	642	4.0	.0	9.9
P. EE	150	-7	450	-7	* AG	642	3.5	.0	15.0
Q. NL	0	0	5	-150	* AG	175	6.3	.0	9.9
R. SL	0	0	-5	150	* AG	85	6.3	.0	9.9
S. WL	0	0	150	5	* AG	24	5.9	.0	9.9
T. EL	0	0	-150	-5	* AG	642	6.5	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	* Y	* Z
1. NE3	14	14	1.8
2. SE3	14	-14	1.8
3. SW3	-14	-14	1.8
4. NW3	-14	14	1.8
5. NE7	18	18	1.8
6. SE7	18	-18	1.8
7. SW7	-18	-18	1.8
8. NW7	-18	18	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	* D	* E	* F	* G	* H
1. NE3	261.	1.8	.0	.0	.5	.0	.0	.1	.0	.0
2. SE3	353.	1.8	.0	.2	1.1	.0	.0	.1	.0	.0
3. SW3	6.	1.5	.0	.0	.2	.2	.0	.5	.0	.0
4. NW3	171.	1.4	.0	.3	.0	.0	.0	.1	.2	.0
5. NE7	259.	1.4	.0	.0	.4	.0	.0	.1	.0	.0
6. SE7	278.	1.3	.0	.3	.0	.0	.0	.0	.0	.0
7. SW7	9.	1.3	.0	.0	.3	.1	.0	.3	.0	.0
8. NW7	168.	1.1	.0	.3	.0	.0	.0	.0	.2	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. NE3	.0	.1	.4	.0	.0	.2	.0	.0	.0	.0	.0	.3
2. SE3	.0	.1	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
3. SW3	.0	.0	.1	.0	.0	.2	.0	.0	.0	.0	.0	.2
4. NW3	.0	.0	.2	.0	.0	.1	.0	.0	.1	.0	.0	.2
5. NE7	.0	.0	.3	.0	.0	.2	.0	.0	.0	.0	.0	.3
6. SE7	.0	.0	.0	.1	.0	.4	.0	.0	.0	.0	.0	.3
7. SW7	.0	.0	.1	.0	.0	.2	.0	.0	.0	.0	.0	.2
8. NW7	.0	.0	.2	.0	.0	.1	.0	.0	.1	.0	.0	.2

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: FIGUEROA STREET AND TORRANCE BOULEVARD PM NP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	* Y1	* X2	* Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	7	-450	7	-150	* AG	691	3.5	.0	15.0
B. NA	7	-150	7	0	* AG	548	6.3	.0	13.5
C. ND	7	0	7	150	* AG	1214	4.5	.0	9.9
D. NE	7	150	7	450	* AG	1214	3.5	.0	15.0
E. SF	-7	450	-7	150	* AG	848	3.5	.0	15.0
F. SA	-7	150	-7	0	* AG	684	6.3	.0	13.5
G. SD	-7	0	-7	-150	* AG	590	4.1	.0	9.9
H. SE	-7	-150	-7	-450	* AG	590	3.5	.0	15.0
I. WF	450	7	150	7	* AG	493	3.5	.0	15.0
J. WA	150	7	0	7	* AG	458	5.9	.0	13.5
K. WD	0	7	-150	7	* AG	758	4.1	.0	9.9
L. WE	-150	7	-450	7	* AG	758	3.5	.0	15.0
M. EF	-450	-7	-150	-7	* AG	1218	3.5	.0	15.0
N. EA	-150	-7	0	-7	* AG	617	5.9	.0	13.5
O. ED	0	-7	150	-7	* AG	688	4.0	.0	9.9
P. EE	150	-7	450	-7	* AG	688	3.5	.0	15.0
Q. NL	0	0	5	-150	* AG	143	6.3	.0	9.9
R. SL	0	0	-5	150	* AG	164	6.3	.0	9.9
S. WL	0	0	150	5	* AG	35	5.9	.0	9.9
T. EL	0	0	-150	-5	* AG	601	6.8	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	* Y	* Z
1. NE3	14	14	1.8
2. SE3	14	-14	1.8
3. SW3	-14	-14	1.8
4. NW3	-14	14	1.8
5. NE7	18	18	1.8
6. SE7	18	-18	1.8
7. SW7	-18	-18	1.8
8. NW7	-18	18	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	* D	* E	* F	* G	* H
1. NE3	261.	1.7	.0	.0	.3	.0	.0	.2	.0	.0
2. SE3	352.	1.6	.0	.1	.7	.0	.0	.2	.0	.0
3. SW3	5.	1.7	.0	.0	.0	.2	.0	.7	.0	.0
4. NW3	171.	1.4	.0	.2	.0	.0	.0	.2	.3	.0
5. NE7	259.	1.3	.0	.0	.3	.0	.0	.2	.0	.0
6. SE7	278.	1.2	.0	.2	.0	.0	.0	.0	.0	.0
7. SW7	8.	1.4	.0	.0	.1	.2	.0	.5	.0	.0
8. NW7	170.	1.0	.0	.2	.0	.0	.0	.0	.2	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. NE3	.0	.1	.4	.0	.0	.2	.0	.0	.0	.0	.0	.3
2. SE3	.0	.1	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
3. SW3	.0	.0	.1	.0	.0	.2	.0	.0	.0	.0	.0	.2
4. NW3	.0	.0	.2	.0	.0	.1	.0	.0	.0	.0	.0	.2
5. NE7	.0	.0	.3	.0	.0	.2	.0	.0	.0	.0	.0	.3
6. SE7	.0	.0	.0	.1	.0	.4	.0	.0	.0	.0	.0	.3
7. SW7	.0	.0	.1	.0	.0	.2	.0	.0	.0	.0	.0	.2
8. NW7	.0	.0	.2	.0	.0	.1	.0	.0	.0	.0	.0	.2

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: FIGUEROA STREET AND TORRANCE BOULEVARD PM WP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	LINK COORDINATES (M) Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	* 7	-450	7	-150	* AG	728	3.5	.0	15.0
B. NA	* 7	-150	7	0	* AG	585	6.3	.0	13.5
C. ND	* 7	0	7	150	* AG	1217	4.6	.0	9.9
D. NE	* 7	150	7	450	* AG	1217	3.5	.0	15.0
E. SF	* -7	450	-7	150	* AG	955	3.5	.0	15.0
F. SA	* -7	150	-7	0	* AG	718	6.3	.0	13.5
G. SD	* -7	0	-7	-150	* AG	626	4.1	.0	9.9
H. SE	* -7	-150	-7	-450	* AG	626	3.5	.0	15.0
I. WF	* 450	7	150	7	* AG	570	3.5	.0	15.0
J. WA	* 150	7	0	7	* AG	533	5.9	.0	13.5
K. WD	* 0	7	-150	7	* AG	833	4.0	.0	9.9
L. WE	* -150	7	-450	7	* AG	833	3.5	.0	15.0
M. EF	* -450	-7	-150	-7	* AG	1406	3.5	.0	15.0
N. EA	* -150	-7	0	-7	* AG	805	6.1	.0	13.5
O. ED	* 0	-7	150	-7	* AG	983	4.1	.0	9.9
P. EE	* 150	-7	450	-7	* AG	983	3.5	.0	15.0
Q. NL	* 0	0	5	-150	* AG	143	6.3	.0	9.9
R. SL	* 0	0	-5	150	* AG	237	6.3	.0	9.9
S. WL	* 0	0	150	5	* AG	37	5.9	.0	9.9
T. EL	* 0	0	-150	-5	* AG	601	6.8	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	COORDINATES (M) Y	Z
1. NE3	* 14	14	1.8
2. SE3	* 14	-14	1.8
3. SW3	* -14	-14	1.8
4. NW3	* -14	14	1.8
5. NE7	* 18	18	1.8
6. SE7	* 18	-18	1.8
7. SW7	* -18	-18	1.8
8. NW7	* -18	18	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	A	B	C	D	E	F	G	H
1. NE3	* 261.	* 1.9	* .0	.0	.3	.0	.0	.2	.0	.0
2. SE3	* 352.	* 1.7	* .0	.1	.7	.0	.1	.2	.0	.0
3. SW3	* 5.	* 1.9	* .0	.0	.0	.2	.1	.7	.0	.0
4. NW3	* 171.	* 1.5	* .0	.2	.0	.0	.0	.2	.4	.0
5. NE7	* 259.	* 1.4	* .0	.0	.3	.0	.0	.2	.0	.0
6. SE7	* 278.	* 1.4	* .0	.2	.0	.0	.0	.0	.0	.0
7. SW7	* 8.	* 1.5	* .0	.0	.1	.2	.0	.5	.0	.0
8. NW7	* 97.	* 1.1	* .0	.0	.2	.0	.0	.2	.0	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	* .0	.1	.4	.0	.1	.3	.0	.0	.0	.0	.0	.3
2. SE3	* .0	.1	.0	.0	.0	.0	.2	.0	.0	.1	.0	.0
3. SW3	* .0	.0	.1	.0	.0	.3	.0	.0	.0	.1	.0	.2
4. NW3	* .0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.2
5. NE7	* .0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.3
6. SE7	* .0	.0	.0	.1	.0	.5	.0	.0	.0	.0	.0	.3
7. SW7	* .0	.0	.1	.0	.0	.3	.0	.0	.0	.1	.0	.2
8. NW7	* .0	.4	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: LENARDO DRIVE AND SOUTHBOUND I-405 OFF-RAMP AM NP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	* 540	0	570	0	* AG	0	3.5	.0	10.5
B. NA	* 540	0	570	0	* AG	0	5.0	.0	9.9
C. ND	* 540	0	570	0	* AG	40	3.8	.0	9.9
D. NE	* 540	0	570	0	* AG	40	3.5	.0	10.5
E. SF	* -5	450	-5	150	* AG	1283	3.5	.0	10.5
F. SA	* -5	150	-5	0	* AG	0	5.0	.0	9.9
G. SD	* 540	0	570	0	* AG	0	3.8	.0	9.9
H. SE	* 540	0	570	0	* AG	0	3.5	.0	10.5
I. WF	* 450	9	150	9	* AG	40	3.5	.0	15.0
J. WA	* 150	9	0	9	* AG	40	8.6	.0	9.9
K. WD	* 0	9	-150	9	* AG	0	8.6	.0	9.9
L. WE	* -150	9	-450	9	* AG	0	3.5	.0	15.0
M. EF	* -450	-9	-150	-9	* AG	0	3.5	.0	15.0
N. EA	* -150	-9	0	-9	* AG	0	8.6	.0	18.0
O. ED	* 0	-9	150	-9	* AG	1283	8.6	.0	9.9
P. EE	* 150	-9	450	-9	* AG	1283	3.5	.0	15.0
Q. NL	* 570	0	540	0	* AG	0	5.0	.0	9.9
R. SL	* 0	0	-5	150	* AG	1283	7.3	.0	9.9
S. WL	* 0	-570	0	-540	* AG	0	8.6	.0	9.9
T. EL	* 0	0	-150	-7	* AG	0	8.6	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	Y	Z
1. NE3	* 10	17	1.8
2. SE3	* 10	-17	1.8
3. SW3	* -10	-17	1.8
4. NW3	* -10	17	1.8
5. NE7	* 14	20	1.8
6. SE7	* 14	-20	1.8
7. SW7	* -14	-20	1.8
8. NW7	* -14	20	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	A	B	C	D	E	F	G	H
1. NE3	* 350.	* .9	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0
2. SE3	* 351.	* 1.8	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0
3. SW3	* 84.	* 1.6	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0
4. NW3	* 104.	* 1.1	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0
5. NE7	* 348.	* .7	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0
6. SE7	* 350.	* 1.4	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0
7. SW7	* 82.	* 1.1	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0
8. NW7	* 106.	* 1.0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .9	* .0	* .0
2. SE3	* .0	* .0	* .0	* .0	* .0	* .0	* .7	* .0	* .0	* 1.0	* .0	* .0
3. SW3	* .0	* .0	* .0	* .0	* .0	* .0	* 1.5	* .0	* .0	* .0	* .0	* .0
4. NW3	* .0	* .0	* .0	* .0	* .0	* .0	* .5	* .0	* .0	* .5	* .0	* .0
5. NE7	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .7	* .0	* .0
6. SE7	* .0	* .0	* .0	* .0	* .0	* .0	* .5	* .0	* .0	* .8	* .0	* .0
7. SW7	* .0	* .0	* .0	* .0	* .0	* .0	* 1.0	* .0	* .0	* .0	* .0	* .0
8. NW7	* .0	* .0	* .0	* .0	* .0	* .0	* .5	* .0	* .0	* .4	* .0	* .0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: LENARDO DRIVE AND SOUTHBOUND I-405 OFF-RAMP AM WP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	* 540	0	570	0	* AG	0	3.5	.0	10.5
B. NA	* 540	0	570	0	* AG	0	5.2	.0	9.9
C. ND	* 540	0	570	0	* AG	244	3.8	.0	9.9
D. NE	* 540	0	570	0	* AG	244	3.5	.0	10.5
E. SF	* -5	450	-5	150	* AG	1415	3.5	.0	10.5
F. SA	* -5	150	-5	0	* AG	132	5.2	.0	9.9
G. SD	* 540	0	570	0	* AG	0	3.8	.0	9.9
H. SE	* 540	0	570	0	* AG	0	3.5	.0	10.5
I. WF	* 450	9	150	9	* AG	328	3.5	.0	15.0
J. WA	* 150	9	0	9	* AG	328	7.1	.0	9.9
K. WD	* 0	9	-150	9	* AG	386	4.2	.0	9.9
L. WE	* -150	9	-450	9	* AG	386	3.5	.0	15.0
M. EF	* -450	-9	-150	-9	* AG	359	3.5	.0	15.0
N. EA	* -150	-9	0	-9	* AG	189	7.1	.0	18.0
O. ED	* 0	-9	150	-9	* AG	1472	8.0	.0	9.9
P. EE	* 150	-9	450	-9	* AG	1472	3.5	.0	15.0
Q. NL	* 570	0	540	0	* AG	0	5.2	.0	9.9
R. SL	* 0	0	-5	150	* AG	1283	7.7	.0	9.9
S. WL	* 0	-570	0	-540	* AG	0	7.1	.0	9.9
T. EL	* 0	0	-150	-7	* AG	170	7.1	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	Y	Z
1. NE3	* 10	17	1.8
2. SE3	* 10	-17	1.8
3. SW3	* -10	-17	1.8
4. NW3	* -10	17	1.8
5. NE7	* 14	20	1.8
6. SE7	* 14	-20	1.8
7. SW7	* -14	-20	1.8
8. NW7	* -14	20	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	A	B	C	D	E	F	G	H
1. NE3	* 350.	* 1.1	* .0	.0	.0	.0	.0	.0	.0	.0
2. SE3	* 351.	* 2.0	* .0	.0	.0	.0	.0	.0	.0	.0
3. SW3	* 84.	* 1.8	* .0	.0	.0	.0	.0	.0	.0	.0
4. NW3	* 102.	* 1.5	* .0	.0	.0	.0	.0	.0	.0	.0
5. NE7	* 258.	* .8	* .0	.0	.0	.0	.0	.0	.0	.0
6. SE7	* 350.	* 1.6	* .0	.0	.0	.0	.0	.0	.0	.0
7. SW7	* 81.	* 1.2	* .0	.0	.0	.0	.0	.0	.0	.0
8. NW7	* 104.	* 1.2	* .0	.0	.0	.0	.0	.0	.0	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	* .0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0
2. SE3	* .0	.0	.0	.0	.0	.0	.7	.0	.0	1.1	.0	.0
3. SW3	* .0	.0	.0	.0	.0	.0	1.5	.0	.0	.0	.0	.0
4. NW3	* .0	.3	.0	.0	.0	.0	.5	.0	.0	.5	.0	.0
5. NE7	* .0	.0	.2	.0	.0	.0	.0	.0	.0	.4	.0	.0
6. SE7	* .0	.0	.0	.0	.0	.0	.6	.0	.0	.8	.0	.0
7. SW7	* .0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0
8. NW7	* .0	.2	.0	.0	.0	.0	.5	.0	.0	.5	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: LENARDO DRIVE AND SOUTHBOUND I-405 OFF-RAMP PM NP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	* 540	0	570	0	* AG	0	3.5	.0	10.5
B. NA	* 540	0	570	0	* AG	0	5.0	.0	9.9
C. ND	* 540	0	570	0	* AG	154	3.8	.0	9.9
D. NE	* 540	0	570	0	* AG	154	3.5	.0	10.5
E. SF	* -5	450	-5	150	* AG	953	3.5	.0	10.5
F. SA	* -5	150	-5	0	* AG	0	5.0	.0	9.9
G. SD	* 540	0	570	0	* AG	0	3.8	.0	9.9
H. SE	* 540	0	570	0	* AG	0	3.5	.0	10.5
I. WF	* 450	9	150	9	* AG	154	3.5	.0	15.0
J. WA	* 150	9	0	9	* AG	154	8.6	.0	9.9
K. WD	* 0	9	-150	9	* AG	0	6.8	.0	9.9
L. WE	* -150	9	-450	9	* AG	0	3.5	.0	15.0
M. EF	* -450	-9	-150	-9	* AG	0	3.5	.0	15.0
N. EA	* -150	-9	0	-9	* AG	0	8.6	.0	18.0
O. ED	* 0	-9	150	-9	* AG	953	8.6	.0	9.9
P. EE	* 150	-9	450	-9	* AG	953	3.5	.0	15.0
Q. NL	* 570	0	540	0	* AG	0	5.0	.0	9.9
R. SL	* 0	0	-5	150	* AG	953	7.3	.0	9.9
S. WL	* 0	-570	0	-540	* AG	0	8.6	.0	9.9
T. EL	* 0	0	-150	-7	* AG	0	8.6	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	Y	Z
1. NE3	* 10	17	1.8
2. SE3	* 10	-17	1.8
3. SW3	* -10	-17	1.8
4. NW3	* -10	17	1.8
5. NE7	* 14	20	1.8
6. SE7	* 14	-20	1.8
7. SW7	* -14	-20	1.8
8. NW7	* -14	20	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	A	B	C	D	E	F	G	H
1. NE3	* 350.	* .7	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0
2. SE3	* 352.	* 1.4	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0
3. SW3	* 84.	* 1.3	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0
4. NW3	* 102.	* 1.0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0
5. NE7	* 348.	* .6	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0
6. SE7	* 350.	* 1.1	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0
7. SW7	* 82.	* .9	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0
8. NW7	* 104.	* .9	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0
2. SE3	* .0	.0	.0	.0	.0	.0	.5	.0	.0	.8	.0	.0
3. SW3	* .0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0
4. NW3	* .0	.2	.0	.0	.0	.0	.4	.0	.0	.4	.0	.0
5. NE7	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0
6. SE7	* .0	.0	.0	.0	.0	.0	.4	.0	.0	.6	.0	.0
7. SW7	* .0	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0
8. NW7	* .0	.1	.0	.0	.0	.0	.4	.0	.0	.3	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: LENARDO DRIVE AND SOUTHBOUND I-405 OFF-RAMP PM WP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	* 540	0	570	0	* AG	0	3.5	.0	10.5
B. NA	* 540	0	570	0	* AG	0	6.5	.0	9.9
C. ND	* 540	0	570	0	* AG	681	6.3	.0	9.9
D. NE	* 540	0	570	0	* AG	681	3.5	.0	10.5
E. SF	* -5	450	-5	150	* AG	1258	3.5	.0	10.5
F. SA	* -5	150	-5	0	* AG	305	6.5	.0	9.9
G. SD	* 540	0	570	0	* AG	0	4.1	.0	9.9
H. SE	* 540	0	570	0	* AG	0	3.5	.0	10.5
I. WF	* 450	9	150	9	* AG	722	3.5	.0	15.0
J. WA	* 150	9	0	9	* AG	722	5.9	.0	9.9
K. WD	* 0	9	-150	9	* AG	856	4.0	.0	9.9
L. WE	* -150	9	-450	9	* AG	856	3.5	.0	15.0
M. EF	* -450	-9	-150	-9	* AG	1105	3.5	.0	15.0
N. EA	* -150	-9	0	-9	* AG	595	5.7	.0	18.0
O. ED	* 0	-9	150	-9	* AG	1548	4.4	.0	9.9
P. EE	* 150	-9	450	-9	* AG	1548	3.5	.0	15.0
Q. NL	* 570	0	540	0	* AG	0	6.5	.0	9.9
R. SL	* 0	0	-5	150	* AG	953	8.6	.0	9.9
S. WL	* 0	-570	0	-540	* AG	0	5.7	.0	9.9
T. EL	* 0	0	-150	-7	* AG	510	5.7	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	Y	Z
1. NE3	* 10	17	1.8
2. SE3	* 10	-17	1.8
3. SW3	* -10	-17	1.8
4. NW3	* -10	17	1.8
5. NE7	* 14	20	1.8
6. SE7	* 14	-20	1.8
7. SW7	* -14	-20	1.8
8. NW7	* -14	20	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	A	B	C	D	E	F	G	H
1. NE3	* 261.	* 1.4	* .0	.0	.0	.0	.0	.0	.0	.0
2. SE3	* 351.	* 1.7	* .0	.0	.0	.0	.0	.2	.0	.0
3. SW3	* 4.	* 1.7	* .0	.0	.0	.0	.1	.4	.0	.0
4. NW3	* 96.	* 1.6	* .0	.0	.0	.0	.0	.1	.0	.0
5. NE7	* 258.	* 1.2	* .0	.0	.0	.0	.0	.0	.0	.0
6. SE7	* 350.	* 1.4	* .0	.0	.0	.0	.0	.2	.0	.0
7. SW7	* 6.	* 1.4	* .0	.0	.0	.0	.0	.3	.0	.0
8. NW7	* 97.	* 1.3	* .0	.0	.0	.0	.0	.1	.0	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	* .0	.0	.5	.0	.1	.1	.0	.0	.0	.4	.0	.2
2. SE3	* .0	.1	.0	.0	.0	.0	.4	.0	.0	1.0	.0	.0
3. SW3	* .0	.0	.1	.0	.0	.2	.0	.0	.0	.8	.0	.1
4. NW3	* .0	.6	.0	.0	.0	.0	.3	.0	.5	.0	.0	.0
5. NE7	* .0	.0	.3	.0	.0	.2	.0	.0	.0	.4	.0	.2
6. SE7	* .0	.1	.0	.0	.0	.3	.0	.0	.7	.0	.0	.0
7. SW7	* .0	.0	.1	.0	.0	.2	.0	.0	.0	.6	.0	.1
8. NW7	* .0	.4	.0	.0	.0	.0	.3	.0	.4	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: MAIN STREET AND TORRANCE BOULEVARD AM NP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	* Y1	* X2	* Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	7	-450	7	-150	* AG	1060	3.5	.0	15.0
B. NA	7	-150	7	0	* AG	764	5.2	.0	13.5
C. ND	7	0	7	150	* AG	983	3.8	.0	9.9
D. NE	7	150	7	450	* AG	983	3.5	.0	15.0
E. SF	-7	450	-7	150	* AG	768	3.5	.0	15.0
F. SA	-7	150	-7	0	* AG	744	5.0	.0	13.5
G. SD	-7	0	-7	-150	* AG	761	3.8	.0	9.9
H. SE	-7	-150	-7	-450	* AG	761	3.5	.0	15.0
I. WF	450	2	150	2	* AG	126	3.5	.0	10.5
J. WA	150	2	0	2	* AG	112	7.7	.0	9.9
K. WD	0	2	-150	2	* AG	528	8.6	.0	9.9
L. WE	-150	2	-450	2	* AG	528	3.5	.0	10.5
M. EF	-450	-2	-150	-2	* AG	368	3.5	.0	10.5
N. EA	-150	-2	0	-2	* AG	170	7.7	.0	9.9
O. ED	0	-2	150	-2	* AG	50	4.6	.0	9.9
P. EE	150	-2	450	-2	* AG	50	3.5	.0	10.5
Q. NL	0	0	5	-150	* AG	296	5.2	.0	9.9
R. SL	0	0	-5	150	* AG	24	5.0	.0	9.9
S. WL	0	0	150	2	* AG	14	7.7	.0	9.9
T. EL	0	0	-150	-2	* AG	198	7.7	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	* Y	* Z
1. NE3	14	8	1.8
2. SE3	14	-8	1.8
3. SW3	-14	-8	1.8
4. NW3	-14	8	1.8
5. NE7	18	11	1.8
6. SE7	18	-11	1.8
7. SW7	-18	-11	1.8
8. NW7	-18	11	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	* D	* E	* F	* G	* H
1. NE3	266.	1.8	.0	.0	.2	.0	.0	.1	.0	.0
2. SE3	275.	1.6	.0	.3	.0	.0	.0	.0	.1	.0
3. SW3	5.	1.4	.0	.0	.0	.2	.0	.6	.0	.0
4. NW3	172.	1.4	.1	.2	.0	.0	.0	.0	.4	.0
5. NE7	263.	1.3	.0	.0	.2	.0	.0	.1	.0	.0
6. SE7	277.	1.2	.0	.2	.0	.0	.0	.0	.0	.0
7. SW7	6.	1.1	.0	.0	.0	.2	.0	.4	.0	.0
8. NW7	171.	1.1	.1	.1	.0	.0	.0	.0	.3	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. NE3	.0	.0	.8	.0	.0	.1	.0	.0	.0	.0	.0	.2
2. SE3	.0	.0	.5	.0	.0	.3	.0	.0	.0	.0	.0	.3
3. SW3	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
4. NW3	.0	.0	.3	.0	.0	.0	.0	.0	.1	.0	.0	.0
5. NE7	.0	.0	.6	.0	.0	.1	.0	.0	.0	.0	.0	.2
6. SE7	.0	.0	.4	.0	.0	.2	.0	.0	.0	.0	.0	.2
7. SW7	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. NW7	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0



CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
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JOB: MAIN STREET AND TORRANCE BOULEVARD AM WP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	7	-450	7	-150	* AG	1234	3.5	.0	15.0
B. NA	7	-150	7	0	* AG	938	5.2	.0	13.5
C. ND	7	0	7	150	* AG	1291	3.8	.0	9.9
D. NE	7	150	7	450	* AG	1291	3.5	.0	15.0
E. SF	-7	450	-7	150	* AG	822	3.5	.0	15.0
F. SA	-7	150	-7	0	* AG	798	5.2	.0	13.5
G. SD	-7	0	-7	-150	* AG	781	3.8	.0	9.9
H. SE	-7	-150	-7	-450	* AG	781	3.5	.0	15.0
I. WF	450	2	150	2	* AG	126	3.5	.0	10.5
J. WA	150	2	0	2	* AG	112	7.7	.0	9.9
K. WD	0	2	-150	2	* AG	562	8.6	.0	9.9
L. WE	-150	2	-450	2	* AG	562	3.5	.0	10.5
M. EF	-450	-2	-150	-2	* AG	502	3.5	.0	10.5
N. EA	-150	-2	0	-2	* AG	170	7.7	.0	9.9
O. ED	0	-2	150	-2	* AG	50	4.5	.0	9.9
P. EE	150	-2	450	-2	* AG	50	3.5	.0	10.5
Q. NL	0	0	5	-150	* AG	296	5.2	.0	9.9
R. SL	0	0	-5	150	* AG	24	5.0	.0	9.9
S. WL	0	0	150	2	* AG	14	7.7	.0	9.9
T. EL	0	0	-150	-2	* AG	332	8.6	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	Y	Z
1. NE3	14	8	1.8
2. SE3	14	-8	1.8
3. SW3	-14	-8	1.8
4. NW3	-14	8	1.8
5. NE7	18	11	1.8
6. SE7	18	-11	1.8
7. SW7	-18	-11	1.8
8. NW7	-18	11	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	A	B	C	D	E	F	G	H
1. NE3	265.	2.1	.0	.0	.3	.0	.0	.2	.0	.0
2. SE3	275.	1.9	.0	.3	.0	.0	.0	.0	.1	.0
3. SW3	5.	1.6	.0	.0	.0	.3	.0	.7	.0	.0
4. NW3	172.	1.6	.1	.2	.0	.0	.0	.0	.4	.0
5. NE7	263.	1.5	.0	.0	.2	.0	.0	.1	.0	.0
6. SE7	277.	1.4	.0	.3	.0	.0	.0	.0	.0	.0
7. SW7	7.	1.3	.0	.0	.0	.2	.0	.4	.0	.0
8. NW7	170.	1.2	.0	.2	.0	.0	.0	.0	.3	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	.0	.0	.9	.0	.0	.2	.0	.0	.0	.0	.0	.4
2. SE3	.0	.0	.5	.0	.0	.3	.0	.0	.0	.0	.0	.4
3. SW3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.2
4. NW3	.0	.0	.3	.0	.0	.0	.0	.0	.1	.0	.0	.2
5. NE7	.0	.0	.6	.0	.0	.1	.0	.0	.0	.0	.0	.3
6. SE7	.0	.0	.4	.0	.0	.2	.0	.0	.0	.0	.0	.3
7. SW7	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.1
8. NW7	.0	.0	.3	.0	.0	.0	.0	.0	.1	.0	.0	.1

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
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JOB: MAIN STREET AND TORRANCE BOULEVARD PM NP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	* Y1	* X2	* Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	7	-450	7	-150	* AG	752	3.5	.0	15.0
B. NA	7	-150	7	0	* AG	553	5.0	.0	13.5
C. ND	7	0	7	150	* AG	829	3.8	.0	9.9
D. NE	7	150	7	450	* AG	829	3.5	.0	15.0
E. SF	-7	450	-7	150	* AG	1115	3.5	.0	15.0
F. SA	-7	150	-7	0	* AG	1066	5.2	.0	13.5
G. SD	-7	0	-7	-150	* AG	1153	3.8	.0	9.9
H. SE	-7	-150	-7	-450	* AG	1153	3.5	.0	15.0
I. WF	450	2	150	2	* AG	76	3.5	.0	10.5
J. WA	150	2	0	2	* AG	63	7.3	.0	9.9
K. WD	0	2	-150	2	* AG	475	6.8	.0	9.9
L. WE	-150	2	-450	2	* AG	475	3.5	.0	10.5
M. EF	-450	-2	-150	-2	* AG	645	3.5	.0	10.5
N. EA	-150	-2	0	-2	* AG	364	8.3	.0	9.9
O. ED	0	-2	150	-2	* AG	131	4.4	.0	9.9
P. EE	150	-2	450	-2	* AG	131	3.5	.0	10.5
Q. NL	0	0	5	-150	* AG	199	5.0	.0	9.9
R. SL	0	0	-5	150	* AG	49	5.0	.0	9.9
S. WL	0	0	150	2	* AG	13	7.3	.0	9.9
T. EL	0	0	-150	-2	* AG	281	7.7	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	* Y	* Z
1. NE3	14	8	1.8
2. SE3	14	-8	1.8
3. SW3	-14	-8	1.8
4. NW3	-14	8	1.8
5. NE7	18	11	1.8
6. SE7	18	-11	1.8
7. SW7	-18	-11	1.8
8. NW7	-18	11	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	* D	* E	* F	* G	* H
1. NE3	265.	1.8	.0	.0	.2	.0	.0	.2	.0	.0
2. SE3	275.	1.8	.0	.2	.0	.0	.0	.0	.2	.0
3. SW3	5.	1.8	.0	.0	.0	.2	.1	.9	.0	.0
4. NW3	172.	1.5	.0	.1	.0	.0	.0	.0	.6	.0
5. NE7	263.	1.4	.0	.0	.2	.0	.0	.2	.0	.0
6. SE7	276.	1.3	.0	.1	.0	.0	.0	.0	.1	.0
7. SW7	7.	1.3	.0	.0	.0	.2	.0	.6	.0	.0
8. NW7	173.	1.1	.1	.0	.0	.0	.0	.0	.4	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. NE3	.0	.0	.6	.0	.0	.3	.0	.0	.0	.0	.0	.3
2. SE3	.0	.0	.3	.0	.0	.6	.0	.0	.0	.0	.0	.3
3. SW3	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.1
4. NW3	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.1
5. NE7	.0	.0	.4	.0	.0	.3	.0	.0	.0	.0	.0	.2
6. SE7	.0	.0	.3	.0	.0	.4	.0	.0	.0	.0	.0	.2
7. SW7	.0	.0	.1	.0	.0	.2	.0	.0	.0	.0	.0	.1
8. NW7	.0	.0	.2	.0	.0	.1	.0	.0	.0	.0	.0	.1

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
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JOB: MAIN STREET AND TORRANCE BOULEVARD PM WP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	LINK COORDINATES (M) Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	* 7	-450	7	-150	* AG	1162	3.5	.0	15.0
B. NA	* 7	-150	7	0	* AG	963	5.2	.0	13.5
C. ND	* 7	0	7	150	* AG	1535	4.1	.0	9.9
D. NE	* 7	150	7	450	* AG	1535	3.5	.0	15.0
E. SF	* -7	450	-7	150	* AG	1212	3.5	.0	15.0
F. SA	* -7	150	-7	0	* AG	1163	5.2	.0	13.5
G. SD	* -7	0	-7	-150	* AG	1173	3.8	.0	9.9
H. SE	* -7	-150	-7	-450	* AG	1173	3.5	.0	15.0
I. WF	* 450	2	150	2	* AG	76	3.5	.0	10.5
J. WA	* 150	2	0	2	* AG	63	7.1	.0	9.9
K. WD	* 0	2	-150	2	* AG	552	8.0	.0	9.9
L. WE	* -150	2	-450	2	* AG	552	3.5	.0	10.5
M. EF	* -450	-2	-150	-2	* AG	941	3.5	.0	10.5
N. EA	* -150	-2	0	-2	* AG	364	8.3	.0	9.9
O. ED	* 0	-2	150	-2	* AG	131	4.3	.0	9.9
P. EE	* 150	-2	450	-2	* AG	131	3.5	.0	10.5
Q. NL	* 0	0	5	-150	* AG	199	5.0	.0	9.9
R. SL	* 0	0	-5	150	* AG	49	5.0	.0	9.9
S. WL	* 0	0	150	2	* AG	13	7.1	.0	9.9
T. EL	* 0	0	-150	-2	* AG	577	8.6	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	COORDINATES (M) Y	Z
1. NE3	* 14	8	1.8
2. SE3	* 14	-8	1.8
3. SW3	* -14	-8	1.8
4. NW3	* -14	8	1.8
5. NE7	* 18	11	1.8
6. SE7	* 18	-11	1.8
7. SW7	* -18	-11	1.8
8. NW7	* -18	11	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	A	B	C	D	E	F	G	H
1. NE3	* 265.	* 2.6	* .0	.0	.4	.0	.0	.2	.0	.0
2. SE3	* 275.	* 2.5	* .0	.3	.0	.0	.0	.0	.2	.0
3. SW3	* 5.	* 2.2	* .0	.0	.0	.3	.1	1.0	.0	.0
4. NW3	* 172.	* 1.9	* .1	.2	.0	.0	.0	.0	.6	.0
5. NE7	* 263.	* 1.9	* .0	.0	.3	.0	.0	.2	.0	.0
6. SE7	* 277.	* 1.8	* .0	.3	.0	.0	.0	.0	.1	.0
7. SW7	* 7.	* 1.7	* .0	.0	.0	.2	.0	.6	.0	.0
8. NW7	* 172.	* 1.5	* .2	.1	.0	.0	.0	.0	.4	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	* .0	.0	.8	.0	.1	.3	.0	.0	.0	.0	.0	.7
2. SE3	* .0	.0	.5	.0	.0	.6	.0	.0	.0	.0	.0	.7
3. SW3	* .0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.3
4. NW3	* .0	.0	.3	.0	.0	.2	.0	.0	.0	.0	.0	.3
5. NE7	* .0	.0	.6	.0	.0	.3	.0	.0	.0	.0	.0	.5
6. SE7	* .0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.5
7. SW7	* .0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.3
8. NW7	* .0	.0	.2	.0	.0	.1	.0	.0	.0	.0	.0	.2

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: AVALON BOULEVARD AND 213TH STREET AM NP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	LINK COORDINATES (M) Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	* 9	-450	9	-150	* AG	1377	3.5	.0	19.5
B. NA	* 9	-150	9	0	* AG	1297	5.2	.0	18.0
C. ND	* 9	0	9	150	* AG	1323	3.8	.0	13.5
D. NE	* 9	150	9	450	* AG	1323	3.5	.0	19.5
E. SF	* -9	450	-9	150	* AG	1161	3.5	.0	19.5
F. SA	* -9	150	-9	0	* AG	1107	5.2	.0	18.0
G. SD	* -9	0	-9	-150	* AG	1190	3.8	.0	13.5
H. SE	* -9	-150	-9	-450	* AG	1190	3.5	.0	19.5
I. WF	* 450	5	150	5	* AG	309	3.5	.0	15.0
J. WA	* 150	5	0	5	* AG	216	7.7	.0	13.5
K. WD	* 0	5	-150	5	* AG	301	4.6	.0	9.9
L. WE	* -150	5	-450	5	* AG	301	3.5	.0	15.0
M. EF	* -450	-7	-150	-7	* AG	369	3.5	.0	10.5
N. EA	* -150	-7	0	-7	* AG	220	7.7	.0	9.9
O. ED	* 0	-7	150	-7	* AG	402	8.0	.0	9.9
P. EE	* 150	-7	450	-7	* AG	402	3.5	.0	10.5
Q. NL	* 0	0	5	-150	* AG	80	5.0	.0	9.9
R. SL	* 0	0	-5	150	* AG	54	5.0	.0	9.9
S. WL	* 0	0	150	2	* AG	93	7.7	.0	9.9
T. EL	* 0	0	-150	-7	* AG	149	7.7	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	COORDINATES (M) Y	Z
1. NE3	* 19	12	1.8
2. SE3	* 19	-12	1.8
3. SW3	* -19	-12	1.8
4. NW3	* -19	12	1.8
5. NE7	* 23	16	1.8
6. SE7	* 23	-16	1.8
7. SW7	* -23	-16	1.8
8. NW7	* -23	16	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	A	B	C	D	E	F	G	H
1. NE3	* 186.	* 1.5	* .1	.9	.0	.0	.0	.0	.0	.2
2. SE3	* 352.	* 1.4	* .0	.1	.6	.0	.2	.1	.0	.0
3. SW3	* 85.	* 1.5	* .0	.2	.0	.0	.0	.0	.3	.0
4. NW3	* 172.	* 1.3	* .2	.1	.0	.0	.0	.1	.5	.0
5. NE7	* 187.	* 1.2	* .1	.6	.0	.0	.0	.0	.0	.2
6. SE7	* 352.	* 1.1	* .0	.0	.4	.0	.2	.0	.0	.0
7. SW7	* 83.	* 1.1	* .0	.2	.0	.0	.0	.0	.2	.0
8. NW7	* 171.	* 1.0	* .2	.1	.0	.0	.0	.0	.4	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	* .0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
2. SE3	* .0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
3. SW3	* .0	.0	.0	.0	.0	.0	.1	.6	.0	.0	.0	.0
4. NW3	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5. NE7	* .0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
6. SE7	* .0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
7. SW7	* .0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0
8. NW7	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: AVALON BOULEVARD AND 213TH STREET AM WP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                 AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	* Y1	* X2	* Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	9	-450	9	-150	* AG	1467	3.5	.0	19.5
B. NA	9	-150	9	0	* AG	1387	5.2	.0	18.0
C. ND	9	0	9	150	* AG	1438	3.8	.0	13.5
D. NE	9	150	9	450	* AG	1438	3.5	.0	19.5
E. SF	-9	450	-9	150	* AG	1325	3.5	.0	19.5
F. SA	-9	150	-9	0	* AG	1250	5.2	.0	18.0
G. SD	-9	0	-9	-150	* AG	1333	3.8	.0	13.5
H. SE	-9	-150	-9	-450	* AG	1333	3.5	.0	19.5
I. WF	450	5	150	5	* AG	334	3.5	.0	15.0
J. WA	150	5	0	5	* AG	241	8.0	.0	13.5
K. WD	0	5	-150	5	* AG	301	4.8	.0	9.9
L. WE	-150	5	-450	5	* AG	301	3.5	.0	15.0
M. EF	-450	-7	-150	-7	* AG	369	3.5	.0	10.5
N. EA	-150	-7	0	-7	* AG	220	8.0	.0	9.9
O. ED	0	-7	150	-7	* AG	423	8.3	.0	9.9
P. EE	150	-7	450	-7	* AG	423	3.5	.0	10.5
Q. NL	0	0	5	-150	* AG	80	5.0	.0	9.9
R. SL	0	0	-5	150	* AG	75	5.0	.0	9.9
S. WL	0	0	150	2	* AG	93	8.0	.0	9.9
T. EL	0	0	-150	-7	* AG	149	8.0	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	* Y	* Z
1. NE3	19	12	1.8
2. SE3	19	-12	1.8
3. SW3	-19	-12	1.8
4. NW3	-19	12	1.8
5. NE7	23	16	1.8
6. SE7	23	-16	1.8
7. SW7	-23	-16	1.8
8. NW7	-23	16	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	* D	* E	* F	* G	* H
1. NE3	186.	1.6	.1	.9	.0	.0	.0	.0	.0	.2
2. SE3	352.	1.6	.0	.1	.6	.0	.2	.1	.0	.0
3. SW3	85.	1.6	.0	.2	.0	.0	.0	.0	.3	.0
4. NW3	172.	1.4	.2	.1	.0	.0	.0	.1	.6	.0
5. NE7	187.	1.3	.1	.6	.0	.0	.0	.0	.0	.2
6. SE7	352.	1.1	.0	.0	.5	.0	.2	.0	.0	.0
7. SW7	82.	1.2	.0	.2	.0	.0	.0	.0	.2	.0
8. NW7	99.	1.1	.0	.0	.2	.0	.0	.3	.0	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. NE3	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
2. SE3	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
3. SW3	.0	.1	.0	.0	.0	.0	.1	.6	.0	.0	.0	.0
4. NW3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5. NE7	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
6. SE7	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
7. SW7	.0	.1	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0
8. NW7	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: AVALON BOULEVARD AND 213TH STREET PM NP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                  AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	* Y1	* X2	* Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	9	-450	9	-150	* AG	1495	3.5	.0	19.5
B. NA	9	-150	9	0	* AG	1327	5.2	.0	18.0
C. ND	9	0	9	150	* AG	1312	3.8	.0	13.5
D. NE	9	150	9	450	* AG	1312	3.5	.0	19.5
E. SF	-9	450	-9	150	* AG	1596	3.5	.0	19.5
F. SA	-9	150	-9	0	* AG	1468	5.2	.0	18.0
G. SD	-9	0	-9	-150	* AG	1528	3.8	.0	13.5
H. SE	-9	-150	-9	-450	* AG	1528	3.5	.0	19.5
I. WF	450	5	150	5	* AG	344	3.5	.0	15.0
J. WA	150	5	0	5	* AG	204	8.0	.0	13.5
K. WD	0	5	-150	5	* AG	461	4.9	.0	9.9
L. WE	-150	5	-450	5	* AG	461	3.5	.0	15.0
M. EF	-450	-7	-150	-7	* AG	378	3.5	.0	10.5
N. EA	-150	-7	0	-7	* AG	247	8.0	.0	9.9
O. ED	0	-7	150	-7	* AG	512	8.6	.0	9.9
P. EE	150	-7	450	-7	* AG	512	3.5	.0	10.5
Q. NL	0	0	5	-150	* AG	168	5.0	.0	9.9
R. SL	0	0	-5	150	* AG	128	5.0	.0	9.9
S. WL	0	0	150	2	* AG	140	8.0	.0	9.9
T. EL	0	0	-150	-7	* AG	131	8.0	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	* Y	* Z
1. NE3	19	12	1.8
2. SE3	19	-12	1.8
3. SW3	-19	-12	1.8
4. NW3	-19	12	1.8
5. NE7	23	16	1.8
6. SE7	23	-16	1.8
7. SW7	-23	-16	1.8
8. NW7	-23	16	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	* D	* E	* F	* G	* H
1. NE3	186.	1.7	.1	.9	.0	.0	.0	.0	.0	.3
2. SE3	351.	1.6	.0	.1	.6	.0	.2	.2	.0	.0
3. SW3	85.	1.8	.0	.2	.0	.0	.0	.0	.3	.0
4. NW3	172.	1.6	.2	.1	.0	.0	.0	.1	.7	.0
5. NE7	188.	1.4	.0	.6	.0	.0	.0	.0	.0	.2
6. SE7	351.	1.2	.0	.0	.4	.0	.2	.1	.0	.0
7. SW7	83.	1.3	.0	.2	.0	.0	.0	.0	.3	.0
8. NW7	171.	1.1	.2	.1	.0	.0	.0	.0	.5	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. NE3	.0	.1	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
2. SE3	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0
3. SW3	.0	.0	.0	.0	.0	.0	.1	.7	.0	.0	.0	.1
4. NW3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
5. NE7	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
6. SE7	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
7. SW7	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0
8. NW7	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: AVALON BOULEVARD AND 213TH STREET PM WP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	LINK COORDINATES (M) Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	* 9	-450	9	-150	* AG	1665	3.5	.0	19.5
B. NA	* 9	-150	9	0	* AG	1497	5.2	.0	18.0
C. ND	* 9	0	9	150	* AG	1528	3.8	.0	13.5
D. NE	* 9	150	9	450	* AG	1528	3.5	.0	19.5
E. SF	* -9	450	-9	150	* AG	2008	3.5	.0	19.5
F. SA	* -9	150	-9	0	* AG	1837	5.3	.0	18.0
G. SD	* -9	0	-9	-150	* AG	1897	3.8	.0	13.5
H. SE	* -9	-150	-9	-450	* AG	1897	3.5	.0	19.5
I. WF	* 450	5	150	5	* AG	390	3.5	.0	15.0
J. WA	* 150	5	0	5	* AG	250	8.3	.0	13.5
K. WD	* 0	5	-150	5	* AG	461	5.5	.0	9.9
L. WE	* -150	5	-450	5	* AG	461	3.5	.0	15.0
M. EF	* -450	-7	-150	-7	* AG	378	3.5	.0	10.5
N. EA	* -150	-7	0	-7	* AG	247	8.3	.0	9.9
O. ED	* 0	-7	150	-7	* AG	555	8.6	.0	9.9
P. EE	* 150	-7	450	-7	* AG	555	3.5	.0	10.5
Q. NL	* 0	0	5	-150	* AG	168	5.0	.0	9.9
R. SL	* 0	0	-5	150	* AG	171	5.0	.0	9.9
S. WL	* 0	0	150	2	* AG	140	8.3	.0	9.9
T. EL	* 0	0	-150	-7	* AG	131	8.3	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	COORDINATES (M) Y	Z
1. NE3	* 19	12	1.8
2. SE3	* 19	-12	1.8
3. SW3	* -19	-12	1.8
4. NW3	* -19	12	1.8
5. NE7	* 23	16	1.8
6. SE7	* 23	-16	1.8
7. SW7	* -23	-16	1.8
8. NW7	* -23	16	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	A	B	C	D	E	F	G	H
1. NE3	* 186.	* 1.9	* .1	1.0	.0	.0	.0	.0	.0	.3
2. SE3	* 351.	* 1.9	* .0	.2	.7	.0	.2	.2	.0	.0
3. SW3	* 6.	* 2.0	* .0	.0	.0	.3	.2	1.2	.0	.0
4. NW3	* 171.	* 1.8	* .2	.2	.0	.0	.0	.2	.8	.0
5. NE7	* 188.	* 1.5	* .0	.7	.0	.0	.0	.0	.0	.3
6. SE7	* 348.	* 1.4	* .0	.0	.5	.0	.1	.3	.0	.0
7. SW7	* 8.	* 1.6	* .0	.0	.0	.2	.0	.9	.0	.0
8. NW7	* 100.	* 1.4	* .0	.0	.2	.0	.0	.5	.0	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	* .0	.1	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
2. SE3	* .0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0
3. SW3	* .0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0
4. NW3	* .0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
5. NE7	* .0	.1	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
6. SE7	* .0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0
7. SW7	* .0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
8. NW7	* .0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.1	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: AVALON BOULEVARD AND NORTHBOUND I-405 RAMPS AM NP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	7	-450	7	-150	* AG	2045	3.5	.0	15.0
B. NA	7	-150	7	0	* AG	1567	5.2	.0	18.0
C. ND	7	0	7	150	* AG	2154	4.4	.0	9.9
D. NE	7	150	7	450	* AG	2154	3.5	.0	15.0
E. SF	-7	450	-7	150	* AG	1316	3.5	.0	15.0
F. SA	-7	150	-7	0	* AG	1316	5.9	.0	9.9
G. SD	-7	0	-7	-150	* AG	920	3.8	.0	9.9
H. SE	-7	-150	-7	-450	* AG	920	3.5	.0	15.0
I. WF	-450	0	-150	0	* AG	587	3.5	.0	15.0
J. WA	-150	0	0	0	* AG	587	8.6	.0	9.9
K. WD	0	0	150	0	* AG	874	8.6	.0	9.9
L. WE	150	0	450	0	* AG	874	3.5	.0	10.5
M. EF	-450	0	-150	0	* AG	0	3.5	.0	10.5
N. EA	-150	0	0	0	* AG	0	8.6	.0	9.9
O. ED	0	0	150	0	* AG	0	6.3	.0	9.9
P. EE	150	0	450	0	* AG	0	3.5	.0	10.5
Q. NL	0	0	0	5	-150 * AG	478	5.0	.0	9.9
R. SL	0	-570	0	-540	* AG	0	5.0	.0	9.9
S. WL	0	-570	0	-540	* AG	0	8.6	.0	9.9
T. EL	0	0	-150	0	* AG	0	8.6	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	Y	Z
1. NE3	14	5	1.8
2. SE3	14	-5	1.8
3. SW3	-14	-5	1.8
4. NW3	-14	5	1.8
5. NE7	18	9	1.8
6. SE7	18	-9	1.8
7. SW7	-18	-9	1.8
8. NW7	-18	9	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	A	B	C	D	E	F	G	H
1. NE3	184.	2.4	.3	1.2	.0	.0	.0	.0	.0	.2
2. SE3	354.	2.3	.0	.1	1.1	.1	.2	.1	.0	.0
3. SW3	86.	2.3	.0	.3	.0	.0	.0	.0	.2	.0
4. NW3	94.	2.4	.0	.0	.3	.0	.0	.5	.0	.0
5. NE7	186.	1.8	.2	.9	.0	.0	.0	.0	.0	.2
6. SE7	352.	1.6	.0	.0	.7	.0	.2	.2	.0	.0
7. SW7	84.	1.5	.0	.3	.0	.0	.0	.0	.2	.0
8. NW7	96.	1.6	.0	.0	.3	.0	.0	.4	.0	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	.0	.0	.5	.0	.0	.0	.0	.0	.1	.0	.0	.0
2. SE3	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW3	.0	.3	1.3	.1	.0	.0	.0	.0	.1	.0	.0	.0
4. NW3	.0	.3	1.3	.1	.0	.0	.0	.0	.0	.0	.0	.0
5. NE7	.0	.0	.4	.0	.0	.0	.0	.0	.1	.0	.0	.0
6. SE7	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. SW7	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. NW7	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0



CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: AVALON BOULEVARD AND NORTHBOUND I-405 RAMPS AM WP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	* Y1	* X2	* Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	7	-450	7	-150	* AG	2077	3.5	.0	15.0
B. NA	7	-150	7	0	* AG	1580	5.2	.0	18.0
C. ND	7	0	7	150	* AG	2194	4.4	.0	9.9
D. NE	7	150	7	450	* AG	2194	3.5	.0	15.0
E. SF	-7	450	-7	150	* AG	1387	3.5	.0	15.0
F. SA	-7	150	-7	0	* AG	1387	5.9	.0	9.9
G. SD	-7	0	-7	-150	* AG	1144	3.8	.0	9.9
H. SE	-7	-150	-7	-450	* AG	1144	3.5	.0	15.0
I. WF	-450	0	-150	0	* AG	767	3.5	.0	15.0
J. WA	-150	0	0	0	* AG	614	8.6	.0	9.9
K. WD	0	0	150	0	* AG	893	8.6	.0	9.9
L. WE	150	0	450	0	* AG	893	3.5	.0	10.5
M. EF	-450	0	-150	0	* AG	0	3.5	.0	10.5
N. EA	-150	0	0	0	* AG	0	8.3	.0	9.9
O. ED	0	0	150	0	* AG	0	5.2	.0	9.9
P. EE	150	0	450	0	* AG	0	3.5	.0	10.5
Q. NL	0	0	0	5	-150 * AG	497	5.0	.0	9.9
R. SL	0	-570	0	-540	* AG	0	5.0	.0	9.9
S. WL	0	-570	0	-540	* AG	153	8.3	.0	9.9
T. EL	0	0	-150	0	* AG	0	8.3	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	* Y	* Z
1. NE3	14	5	1.8
2. SE3	14	-5	1.8
3. SW3	-14	-5	1.8
4. NW3	-14	5	1.8
5. NE7	18	9	1.8
6. SE7	18	-9	1.8
7. SW7	-18	-9	1.8
8. NW7	-18	9	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	* D	* E	* F	* G	* H
1. NE3	184.	2.5	.3	1.3	.0	.0	.0	.0	.0	.2
2. SE3	353.	2.3	.0	.1	1.1	.0	.2	.2	.0	.0
3. SW3	86.	2.4	.0	.3	.0	.0	.0	.0	.3	.0
4. NW3	94.	2.5	.0	.0	.3	.0	.0	.5	.0	.0
5. NE7	186.	1.9	.2	.9	.0	.0	.0	.0	.0	.2
6. SE7	352.	1.6	.0	.0	.7	.0	.2	.2	.0	.0
7. SW7	84.	1.5	.0	.3	.0	.0	.0	.0	.2	.0
8. NW7	96.	1.6	.0	.0	.3	.0	.0	.4	.0	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. NE3	.0	.0	.5	.0	.0	.0	.0	.0	.2	.0	.0	.0
2. SE3	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW3	.0	.3	1.3	.1	.0	.0	.0	.0	.1	.0	.0	.0
4. NW3	.0	.3	1.3	.1	.0	.0	.0	.0	.0	.0	.0	.0
5. NE7	.0	.0	.4	.0	.0	.0	.0	.0	.1	.0	.0	.0
6. SE7	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. SW7	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. NW7	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: AVALON BOULEVARD AND NORTHBOUND I-405 RAMPS PM NP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	* Y1	* X2	* Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	7	-450	7	-150	* AG	1775	3.5	.0	15.0
B. NA	7	-150	7	0	* AG	1387	5.2	.0	18.0
C. ND	7	0	7	150	* AG	1779	4.1	.0	9.9
D. NE	7	150	7	450	* AG	1779	3.5	.0	15.0
E. SF	-7	450	-7	150	* AG	2457	3.5	.0	15.0
F. SA	-7	150	-7	0	* AG	2457	7.3	.0	9.9
G. SD	-7	0	-7	-150	* AG	1645	4.1	.0	9.9
H. SE	-7	-150	-7	-450	* AG	1645	3.5	.0	15.0
I. WF	-450	0	-150	0	* AG	392	3.5	.0	15.0
J. WA	-150	0	0	0	* AG	392	8.6	.0	9.9
K. WD	0	0	150	0	* AG	1200	8.6	.0	9.9
L. WE	150	0	450	0	* AG	1200	3.5	.0	10.5
M. EF	-450	0	-150	0	* AG	0	3.5	.0	10.5
N. EA	-150	0	0	0	* AG	0	8.6	.0	9.9
O. ED	0	0	150	0	* AG	0	8.6	.0	9.9
P. EE	150	0	450	0	* AG	0	3.5	.0	10.5
Q. NL	0	0	0	5	-150 * AG	388	5.0	.0	9.9
R. SL	0	-570	0	-540	* AG	0	5.0	.0	9.9
S. WL	0	-570	0	-540	* AG	0	8.6	.0	9.9
T. EL	0	0	-150	0	* AG	0	8.6	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	* Y	* Z
1. NE3	14	5	1.8
2. SE3	14	-5	1.8
3. SW3	-14	-5	1.8
4. NW3	-14	5	1.8
5. NE7	18	9	1.8
6. SE7	18	-9	1.8
7. SW7	-18	-9	1.8
8. NW7	-18	9	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	* D	* E	* F	* G	* H
1. NE3	185.	2.6	.2	1.1	.0	.0	.0	.0	.0	.3
2. SE3	349.	2.6	.0	.1	.9	.0	.0	.8	.0	.0
3. SW3	7.	2.8	.0	.0	.2	.3	.0	2.1	.0	.0
4. NW3	94.	3.3	.0	.0	.2	.0	.0	1.1	.0	.0
5. NE7	187.	2.0	.1	.8	.0	.0	.0	.0	.0	.3
6. SE7	348.	1.9	.0	.0	.6	.0	.0	.7	.0	.0
7. SW7	8.	2.0	.0	.0	.1	.2	.0	1.3	.0	.0
8. NW7	96.	2.3	.0	.0	.2	.0	.0	.8	.0	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. NE3	.0	.0	.7	.0	.0	.0	.0	.0	.1	.0	.0	.0
2. SE3	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4. NW3	.0	.2	1.7	.1	.0	.0	.0	.0	.0	.0	.0	.0
5. NE7	.0	.0	.6	.0	.0	.0	.0	.0	.1	.0	.0	.0
6. SE7	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. SW7	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. NW7	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: AVALON BOULEVARD AND NORTHBOUND I-405 RAMPS PM WP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	7	-450	7	-150	* AG	1861	3.5	.0	15.0
B. NA	7	-150	7	0	* AG	1431	5.2	.0	18.0
C. ND	7	0	7	150	* AG	1904	4.4	.0	9.9
D. NE	7	150	7	450	* AG	1904	3.5	.0	15.0
E. SF	-7	450	-7	150	* AG	2503	3.5	.0	15.0
F. SA	-7	150	-7	0	* AG	2503	7.3	.0	9.9
G. SD	-7	0	-7	-150	* AG	2070	4.4	.0	9.9
H. SE	-7	-150	-7	-450	* AG	2070	3.5	.0	15.0
I. WF	-450	0	-150	0	* AG	852	3.5	.0	15.0
J. WA	-150	0	0	0	* AG	473	8.6	.0	9.9
K. WD	0	0	150	0	* AG	1242	8.6	.0	9.9
L. WE	150	0	450	0	* AG	1242	3.5	.0	10.5
M. EF	-450	0	-150	0	* AG	0	3.5	.0	10.5
N. EA	-150	0	0	0	* AG	0	8.6	.0	9.9
O. ED	0	0	150	0	* AG	0	5.9	.0	9.9
P. EE	150	0	450	0	* AG	0	3.5	.0	10.5
Q. NL	0	0	0	5	-150 * AG	430	5.0	.0	9.9
R. SL	0	-570	0	-540	* AG	0	5.0	.0	9.9
S. WL	0	-570	0	-540	* AG	379	8.6	.0	9.9
T. EL	0	0	-150	0	* AG	0	8.6	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	Y	Z
1. NE3	14	5	1.8
2. SE3	14	-5	1.8
3. SW3	-14	-5	1.8
4. NW3	-14	5	1.8
5. NE7	18	9	1.8
6. SE7	18	-9	1.8
7. SW7	-18	-9	1.8
8. NW7	-18	9	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	A	B	C	D	E	F	G	H
1. NE3	185.	2.7	.2	1.2	.0	.0	.0	.0	.0	.4
2. SE3	349.	2.7	.0	.1	1.0	.0	.0	.8	.0	.0
3. SW3	7.	2.9	.0	.0	.2	.3	.0	2.1	.0	.0
4. NW3	94.	3.4	.0	.0	.3	.0	.0	1.1	.0	.0
5. NE7	187.	2.1	.1	.8	.0	.0	.0	.0	.1	.3
6. SE7	348.	2.0	.0	.0	.7	.0	.0	.7	.0	.0
7. SW7	8.	2.1	.0	.0	.2	.3	.0	1.4	.0	.0
8. NW7	96.	2.3	.0	.0	.2	.0	.0	.8	.0	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	.0	.0	.8	.0	.0	.0	.0	.0	.2	.0	.0	.0
2. SE3	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4. NW3	.0	.2	1.7	.1	.0	.0	.0	.0	.0	.0	.0	.0
5. NE7	.0	.0	.6	.0	.0	.0	.0	.0	.1	.0	.0	.0
6. SE7	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. SW7	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. NW7	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: FIGUEROA STREET AND CARSON STREET AM NP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	* Y1	* X2	* Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	9	-450	9	-150	* AG	960	3.5	.0	15.0
B. NA	9	-150	9	0	* AG	670	6.8	.0	18.0
C. ND	9	0	9	150	* AG	816	4.6	.0	9.9
D. NE	9	150	9	450	* AG	816	3.5	.0	15.0
E. SF	-9	450	-9	150	* AG	349	3.5	.0	15.0
F. SA	-9	150	-9	0	* AG	310	6.8	.0	18.0
G. SD	-9	0	-9	-150	* AG	739	4.6	.0	9.9
H. SE	-9	-150	-9	-450	* AG	739	3.5	.0	15.0
I. WF	450	7	150	7	* AG	1113	3.5	.0	15.0
J. WA	150	7	0	7	* AG	1040	5.3	.0	13.5
K. WD	0	7	-150	7	* AG	1309	4.1	.0	9.9
L. WE	-150	7	-450	7	* AG	1309	3.5	.0	15.0
M. EF	-450	-7	-150	-7	* AG	1305	3.5	.0	15.0
N. EA	-150	-7	0	-7	* AG	1160	5.5	.0	13.5
O. ED	0	-7	150	-7	* AG	863	3.8	.0	9.9
P. EE	150	-7	450	-7	* AG	863	3.5	.0	15.0
Q. NL	0	0	7	-150	* AG	290	6.8	.0	9.9
R. SL	0	0	-7	150	* AG	39	6.8	.0	9.9
S. WL	0	0	150	5	* AG	73	5.3	.0	9.9
T. EL	0	0	-150	-5	* AG	145	5.3	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	* Y	* Z
1. NE3	17	14	1.8
2. SE3	17	-14	1.8
3. SW3	-17	-14	1.8
4. NW3	-17	14	1.8
5. NE7	20	18	1.8
6. SE7	20	-18	1.8
7. SW7	-20	-18	1.8
8. NW7	-20	18	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	* D	* E	* F	* G	* H
1. NE3	262.	1.8	.0	.0	.2	.0	.0	.0	.0	.0
2. SE3	275.	1.9	.0	.3	.0	.0	.0	.0	.1	.0
3. SW3	82.	1.6	.0	.2	.0	.0	.0	.0	.0	.2
4. NW3	171.	1.6	.1	.2	.0	.0	.0	.0	.5	.0
5. NE7	261.	1.2	.0	.0	.2	.0	.0	.0	.0	.0
6. SE7	277.	1.5	.0	.2	.0	.0	.0	.0	.1	.0
7. SW7	82.	1.1	.0	.2	.0	.0	.0	.0	.0	.2
8. NW7	167.	1.3	.0	.2	.0	.0	.0	.0	.3	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. NE3	.0	.2	.7	.0	.1	.3	.0	.0	.0	.0	.0	.0
2. SE3	.0	.0	.0	.2	.1	.9	.0	.0	.0	.0	.0	.0
3. SW3	.1	.3	.0	.0	.0	.3	.4	.0	.0	.0	.0	.0
4. NW3	.0	.0	.3	.0	.0	.2	.0	.0	.1	.0	.0	.0
5. NE7	.0	.0	.5	.0	.1	.2	.0	.0	.0	.0	.0	.0
6. SE7	.0	.0	.1	.2	.0	.7	.0	.0	.0	.0	.0	.0
7. SW7	.1	.2	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0
8. NW7	.0	.0	.3	.0	.0	.2	.0	.0	.2	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: FIGUEROA STREET AND CARSON STREET AM WP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	LINK COORDINATES (M) Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)	
A. NF	*	9	-450	9	-150	* AG	991	3.5	.0	15.0
B. NA	*	9	-150	9	0	* AG	701	6.8	.0	18.0
C. ND	*	9	0	9	150	* AG	842	4.6	.0	9.9
D. NE	*	9	150	9	450	* AG	842	3.5	.0	15.0
E. SF	*	-9	450	-9	150	* AG	367	3.5	.0	15.0
F. SA	*	-9	150	-9	0	* AG	328	6.8	.0	18.0
G. SD	*	-9	0	-9	-150	* AG	755	4.6	.0	9.9
H. SE	*	-9	-150	-9	-450	* AG	755	3.5	.0	15.0
I. WF	*	450	7	150	7	* AG	1135	3.5	.0	15.0
J. WA	*	150	7	0	7	* AG	1059	5.5	.0	13.5
K. WD	*	0	7	-150	7	* AG	1333	4.1	.0	9.9
L. WE	*	-150	7	-450	7	* AG	1333	3.5	.0	15.0
M. EF	*	-450	-7	-150	-7	* AG	1393	3.5	.0	15.0
N. EA	*	-150	-7	0	-7	* AG	1247	5.5	.0	13.5
O. ED	*	0	-7	150	-7	* AG	956	3.9	.0	9.9
P. EE	*	150	-7	450	-7	* AG	956	3.5	.0	15.0
Q. NL	*	0	0	7	-150	* AG	290	6.8	.0	9.9
R. SL	*	0	0	-7	150	* AG	39	6.8	.0	9.9
S. WL	*	0	0	150	5	* AG	76	5.3	.0	9.9
T. EL	*	0	0	-150	-5	* AG	146	5.3	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	COORDINATES (M) Y	Z	
1. NE3	*	17	14	1.8
2. SE3	*	17	-14	1.8
3. SW3	*	-17	-14	1.8
4. NW3	*	-17	14	1.8
5. NE7	*	20	18	1.8
6. SE7	*	20	-18	1.8
7. SW7	*	-20	-18	1.8
8. NW7	*	-20	18	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	A	B	C	D	E	F	G	H
1. NE3	*	262.	* 1.8	* .0	.0	.2	.0	.0	.0	.0
2. SE3	*	275.	* 2.0	* .0	.3	.0	.0	.0	.0	.1
3. SW3	*	82.	* 1.7	* .0	.2	.0	.0	.0	.0	.2
4. NW3	*	171.	* 1.6	* .1	.2	.0	.0	.0	.0	.5
5. NE7	*	261.	* 1.3	* .0	.0	.2	.0	.0	.0	.0
6. SE7	*	277.	* 1.6	* .0	.3	.0	.0	.0	.0	.1
7. SW7	*	80.	* 1.2	* .0	.2	.0	.0	.0	.0	.2
8. NW7	*	167.	* 1.3	* .0	.2	.0	.0	.0	.0	.3

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	*	.0	.3	.7	.0	.1	.3	.0	.0	.0	.0	.0
2. SE3	*	.0	.0	.0	.2	.1	.9	.0	.0	.0	.0	.0
3. SW3	*	.1	.3	.0	.0	.0	.3	.5	.0	.0	.0	.0
4. NW3	*	.0	.0	.3	.0	.0	.3	.0	.0	.1	.0	.0
5. NE7	*	.0	.0	.5	.0	.1	.3	.0	.0	.0	.0	.0
6. SE7	*	.0	.0	.1	.2	.0	.7	.0	.0	.0	.0	.0
7. SW7	*	.0	.3	.0	.0	.0	.0	.4	.0	.0	.0	.0
8. NW7	*	.0	.0	.3	.0	.0	.2	.0	.2	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: FIGUEROA STREET AND CARSON STREET PM NP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	* 9	-450	9	-150	* AG	662	3.5	.0	15.0
B. NA	* 9	-150	9	0	* AG	436	7.3	.0	18.0
C. ND	* 9	0	9	150	* AG	517	4.9	.0	9.9
D. NE	* 9	150	9	450	* AG	517	3.5	.0	15.0
E. SF	* -9	450	-9	150	* AG	611	3.5	.0	15.0
F. SA	* -9	150	-9	0	* AG	492	7.3	.0	18.0
G. SD	* -9	0	-9	-150	* AG	1329	8.6	.0	9.9
H. SE	* -9	-150	-9	-450	* AG	1329	3.5	.0	15.0
I. WF	* 450	7	150	7	* AG	1125	3.5	.0	15.0
J. WA	* 150	7	0	7	* AG	987	5.2	.0	13.5
K. WD	* 0	7	-150	7	* AG	1232	3.8	.0	9.9
L. WE	* -150	7	-450	7	* AG	1232	3.5	.0	15.0
M. EF	* -450	-7	-150	-7	* AG	2237	3.5	.0	15.0
N. EA	* -150	-7	0	-7	* AG	2107	5.9	.0	13.5
O. ED	* 0	-7	150	-7	* AG	1557	4.1	.0	9.9
P. EE	* 150	-7	450	-7	* AG	1557	3.5	.0	15.0
Q. NL	* 0	0	7	-150	* AG	226	7.3	.0	9.9
R. SL	* 0	0	-7	150	* AG	119	7.3	.0	9.9
S. WL	* 0	0	150	5	* AG	138	5.0	.0	9.9
T. EL	* 0	0	-150	-5	* AG	130	5.0	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	Y	Z
1. NE3	* 17	14	1.8
2. SE3	* 17	-14	1.8
3. SW3	* -17	-14	1.8
4. NW3	* -17	14	1.8
5. NE7	* 20	18	1.8
6. SE7	* 20	-18	1.8
7. SW7	* -20	-18	1.8
8. NW7	* -20	18	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	A	B	C	D	E	F	G	H
1. NE3	* 262.	* 1.9	* .0	.0	.2	.0	.0	.1	.0	.0
2. SE3	* 275.	* 2.7	* .0	.2	.0	.0	.0	.0	.4	.0
3. SW3	* 82.	* 2.7	* .0	.1	.0	.0	.0	.0	.7	.0
4. NW3	* 173.	* 2.7	* .1	.0	.0	.0	.0	.1	1.5	.0
5. NE7	* 258.	* 1.4	* .0	.0	.1	.0	.0	.1	.0	.0
6. SE7	* 277.	* 2.2	* .0	.2	.0	.0	.0	.0	.3	.0
7. SW7	* 45.	* 1.8	* .0	.0	.0	.0	.0	.0	.7	.0
8. NW7	* 169.	* 2.1	* .0	.1	.0	.0	.0	.0	1.0	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	* I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	* .0	.2	.6	.0	.2	.5	.0	.0	.0	.0	.0	.0
2. SE3	* .0	.0	.0	.2	.2	1.6	.0	.0	.0	.0	.0	.0
3. SW3	* .1	.2	.0	.0	.0	.6	.8	.0	.0	.0	.0	.0
4. NW3	* .0	.0	.3	.0	.0	.4	.0	.0	.0	.0	.0	.0
5. NE7	* .0	.0	.4	.0	.0	.6	.0	.0	.0	.0	.0	.0
6. SE7	* .0	.0	.0	.2	.1	1.1	.0	.0	.0	.0	.0	.0
7. SW7	* .0	.2	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0
8. NW7	* .0	.0	.2	.0	.0	.4	.0	.0	.1	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: FIGUEROA STREET AND CARSON STREET PM WP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	* Y1	* X2	* Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	9	-450	9	-150	* AG	715	3.5	.0	15.0
B. NA	9	-150	9	0	* AG	489	7.3	.0	18.0
C. ND	9	0	9	150	* AG	554	4.9	.0	9.9
D. NE	9	150	9	450	* AG	554	3.5	.0	15.0
E. SF	-9	450	-9	150	* AG	647	3.5	.0	15.0
F. SA	-9	150	-9	0	* AG	528	7.3	.0	18.0
G. SD	-9	0	-9	-150	* AG	1365	8.6	.0	9.9
H. SE	-9	-150	-9	-450	* AG	1365	3.5	.0	15.0
I. WF	450	7	150	7	* AG	1239	3.5	.0	15.0
J. WA	150	7	0	7	* AG	1083	5.2	.0	13.5
K. WD	0	7	-150	7	* AG	1346	3.9	.0	9.9
L. WE	-150	7	-450	7	* AG	1346	3.5	.0	15.0
M. EF	-450	-7	-150	-7	* AG	2424	3.5	.0	15.0
N. EA	-150	-7	0	-7	* AG	2293	6.3	.0	13.5
O. ED	0	-7	150	-7	* AG	1760	4.1	.0	9.9
P. EE	150	-7	450	-7	* AG	1760	3.5	.0	15.0
Q. NL	0	0	7	-150	* AG	226	7.3	.0	9.9
R. SL	0	0	-7	150	* AG	119	7.3	.0	9.9
S. WL	0	0	150	5	* AG	156	5.0	.0	9.9
T. EL	0	0	-150	-5	* AG	131	5.0	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	* Y	* Z
1. NE3	17	14	1.8
2. SE3	17	-14	1.8
3. SW3	-17	-14	1.8
4. NW3	-17	14	1.8
5. NE7	20	18	1.8
6. SE7	20	-18	1.8
7. SW7	-20	-18	1.8
8. NW7	-20	18	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	* D	* E	* F	* G	* H
1. NE3	261.	2.1	.0	.0	.2	.0	.0	.1	.0	.0
2. SE3	275.	3.0	.0	.2	.0	.0	.0	.0	.4	.0
3. SW3	81.	2.9	.0	.1	.0	.0	.0	.0	.7	.0
4. NW3	173.	2.9	.1	.0	.0	.0	.0	.2	1.5	.0
5. NE7	258.	1.6	.0	.0	.1	.0	.0	.1	.0	.0
6. SE7	277.	2.4	.0	.2	.0	.0	.0	.0	.3	.0
7. SW7	45.	2.0	.0	.0	.1	.0	.0	.0	.7	.0
8. NW7	168.	2.2	.0	.2	.0	.0	.0	.0	1.0	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. NE3	.0	.3	.6	.0	.1	.6	.0	.0	.0	.0	.0	.0
2. SE3	.0	.0	.0	.2	.2	1.8	.0	.0	.0	.0	.0	.0
3. SW3	.0	.3	.0	.0	.0	.7	.8	.0	.0	.0	.0	.0
4. NW3	.0	.0	.3	.0	.0	.5	.0	.0	.0	.0	.0	.0
5. NE7	.0	.0	.5	.0	.0	.7	.0	.0	.0	.0	.0	.0
6. SE7	.0	.0	.1	.2	.1	1.3	.0	.0	.0	.0	.0	.0
7. SW7	.0	.2	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0
8. NW7	.0	.0	.3	.0	.0	.5	.0	.0	.1	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: MAIN STREET AND 213TH STREET AM NP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	* Y1	* X2	* Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	7	-450	7	-150	* AG	1133	3.5	.0	15.0
B. NA	7	-150	7	0	* AG	1133	5.2	.0	13.5
C. ND	7	0	7	150	* AG	1213	3.8	.0	9.9
D. NE	7	150	7	450	* AG	1213	3.5	.0	15.0
E. SF	-7	450	-7	150	* AG	773	3.5	.0	15.0
F. SA	-7	150	-7	0	* AG	666	5.0	.0	13.5
G. SD	-7	0	-7	-150	* AG	891	3.8	.0	9.9
H. SE	-7	-150	-7	-450	* AG	891	3.5	.0	15.0
I. WF	450	2	150	2	* AG	461	3.5	.0	10.5
J. WA	150	2	0	2	* AG	236	8.0	.0	9.9
K. WD	0	540	0	570	* AG	0	4.9	.0	9.9
L. WE	0	540	0	570	* AG	0	3.5	.0	10.5
M. EF	0	540	0	570	* AG	0	3.5	.0	10.5
N. EA	0	540	0	570	* AG	0	8.0	.0	9.9
O. ED	0	-2	150	-2	* AG	263	6.8	.0	9.9
P. EE	150	-2	450	-2	* AG	263	3.5	.0	10.5
Q. NL	0	-570	0	-540	* AG	0	5.0	.0	9.9
R. SL	0	0	-5	150	* AG	107	5.0	.0	9.9
S. WL	0	0	150	2	* AG	225	8.0	.0	9.9
T. EL	0	-570	0	-540	* AG	0	8.0	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	* Y	* Z
1. NE3	14	8	1.8
2. SE3	14	-8	1.8
3. SW3	-14	-8	1.8
4. NW3	-14	8	1.8
5. NE7	18	11	1.8
6. SE7	18	-11	1.8
7. SW7	-18	-11	1.8
8. NW7	-18	11	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	* D	* E	* F	* G	* H
1. NE3	185.	1.6	.1	.9	.0	.0	.0	.0	.0	.2
2. SE3	353.	1.4	.0	.0	.6	.0	.1	.1	.0	.0
3. SW3	85.	1.4	.0	.2	.0	.0	.0	.0	.2	.0
4. NW3	94.	1.4	.0	.0	.2	.0	.0	.2	.0	.0
5. NE7	186.	1.2	.1	.6	.0	.0	.0	.0	.0	.2
6. SE7	353.	1.0	.0	.0	.4	.0	.1	.0	.0	.0
7. SW7	83.	1.1	.0	.2	.0	.0	.0	.0	.2	.0
8. NW7	96.	1.1	.0	.0	.1	.0	.0	.2	.0	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. NE3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0
2. SE3	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.1	.0
3. SW3	.0	.2	.0	.0	.0	.0	.4	.0	.0	.0	.3	.0
4. NW3	.0	.4	.0	.0	.0	.0	.2	.0	.0	.0	.3	.0
5. NE7	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. SE7	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
7. SW7	.0	.2	.0	.0	.0	.0	.3	.0	.0	.0	.2	.0
8. NW7	.0	.3	.0	.0	.0	.0	.2	.0	.0	.0	.2	.0



CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: MAIN STREET AND 213TH STREET AM WP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	* Y1	* X2	* Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	7	-450	7	-150	* AG	1307	3.5	.0	15.0
B. NA	7	-150	7	0	* AG	1307	5.2	.0	13.5
C. ND	7	0	7	150	* AG	1387	3.9	.0	9.9
D. NE	7	150	7	450	* AG	1387	3.5	.0	15.0
E. SF	-7	450	-7	150	* AG	793	3.5	.0	15.0
F. SA	-7	150	-7	0	* AG	686	5.0	.0	13.5
G. SD	-7	0	-7	-150	* AG	911	3.8	.0	9.9
H. SE	-7	-150	-7	-450	* AG	911	3.5	.0	15.0
I. WF	450	2	150	2	* AG	461	3.5	.0	10.5
J. WA	150	2	0	2	* AG	236	8.3	.0	9.9
K. WD	0	540	0	570	* AG	0	5.2	.0	9.9
L. WE	0	540	0	570	* AG	0	3.5	.0	10.5
M. EF	0	540	0	570	* AG	0	3.5	.0	10.5
N. EA	0	540	0	570	* AG	0	8.3	.0	9.9
O. ED	0	-2	150	-2	* AG	263	7.1	.0	9.9
P. EE	150	-2	450	-2	* AG	263	3.5	.0	10.5
Q. NL	0	-570	0	-540	* AG	0	5.0	.0	9.9
R. SL	0	0	-5	150	* AG	107	5.0	.0	9.9
S. WL	0	0	150	2	* AG	225	8.3	.0	9.9
T. EL	0	-570	0	-540	* AG	0	8.3	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	* Y	* Z
1. NE3	14	8	1.8
2. SE3	14	-8	1.8
3. SW3	-14	-8	1.8
4. NW3	-14	8	1.8
5. NE7	18	11	1.8
6. SE7	18	-11	1.8
7. SW7	-18	-11	1.8
8. NW7	-18	11	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	* D	* E	* F	* G	* H
1. NE3	185.	1.8	.1	1.1	.0	.0	.0	.0	.0	.2
2. SE3	353.	1.5	.0	.0	.7	.0	.1	.1	.0	.0
3. SW3	85.	1.5	.0	.3	.0	.0	.0	.0	.2	.0
4. NW3	94.	1.4	.0	.0	.2	.0	.0	.2	.0	.0
5. NE7	186.	1.3	.1	.6	.0	.0	.0	.0	.0	.2
6. SE7	353.	1.1	.0	.0	.5	.0	.1	.0	.0	.0
7. SW7	83.	1.1	.0	.2	.0	.0	.0	.0	.2	.0
8. NW7	96.	1.1	.0	.0	.2	.0	.0	.2	.0	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. NE3	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.1	.0
2. SE3	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.1	.0
3. SW3	.0	.2	.0	.0	.0	.0	.4	.0	.0	.0	.3	.0
4. NW3	.0	.4	.0	.0	.0	.0	.2	.0	.0	.0	.3	.0
5. NE7	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. SE7	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
7. SW7	.0	.2	.0	.0	.0	.0	.3	.0	.0	.0	.2	.0
8. NW7	.0	.3	.0	.0	.0	.0	.2	.0	.0	.0	.2	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: MAIN STREET AND 213TH STREET PM NP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	* Y1	* X2	* Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	7	-450	7	-150	* AG	904	3.5	.0	15.0
B. NA	7	-150	7	0	* AG	904	5.2	.0	13.5
C. ND	7	0	7	150	* AG	832	3.8	.0	9.9
D. NE	7	150	7	450	* AG	832	3.5	.0	15.0
E. SF	-7	450	-7	150	* AG	1146	3.5	.0	15.0
F. SA	-7	150	-7	0	* AG	916	5.2	.0	13.5
G. SD	-7	0	-7	-150	* AG	1100	3.8	.0	9.9
H. SE	-7	-150	-7	-450	* AG	1100	3.5	.0	15.0
I. WF	450	2	150	2	* AG	313	3.5	.0	10.5
J. WA	150	2	0	2	* AG	129	8.6	.0	9.9
K. WD	0	540	0	570	* AG	0	7.3	.0	9.9
L. WE	0	540	0	570	* AG	0	3.5	.0	10.5
M. EF	0	540	0	570	* AG	0	3.5	.0	10.5
N. EA	0	540	0	570	* AG	0	8.6	.0	9.9
O. ED	0	-2	150	-2	* AG	431	8.6	.0	9.9
P. EE	150	-2	450	-2	* AG	431	3.5	.0	10.5
Q. NL	0	-570	0	-540	* AG	0	5.0	.0	9.9
R. SL	0	0	-5	150	* AG	230	5.0	.0	9.9
S. WL	0	0	150	2	* AG	184	8.6	.0	9.9
T. EL	0	-570	0	-540	* AG	0	8.6	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	* Y	* Z
1. NE3	14	8	1.8
2. SE3	14	-8	1.8
3. SW3	-14	-8	1.8
4. NW3	-14	8	1.8
5. NE7	18	11	1.8
6. SE7	18	-11	1.8
7. SW7	-18	-11	1.8
8. NW7	-18	11	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	* D	* E	* F	* G	* H
1. NE3	185.	1.5	.1	.8	.0	.0	.0	.0	.0	.2
2. SE3	352.	1.4	.0	.0	.5	.0	.1	.2	.0	.0
3. SW3	86.	1.6	.0	.2	.0	.0	.0	.0	.3	.0
4. NW3	95.	1.5	.0	.0	.1	.0	.0	.3	.0	.0
5. NE7	187.	1.1	.0	.5	.0	.0	.0	.0	.0	.2
6. SE7	352.	1.1	.0	.0	.3	.0	.2	.1	.0	.0
7. SW7	83.	1.2	.0	.2	.0	.0	.0	.0	.2	.0
8. NW7	97.	1.2	.0	.0	.1	.0	.0	.2	.0	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. NE3	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.1	.0
2. SE3	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0
3. SW3	.0	.1	.0	.0	.0	.0	.7	.0	.0	.0	.2	.0
4. NW3	.0	.2	.0	.0	.0	.0	.4	.0	.0	.0	.3	.0
5. NE7	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
6. SE7	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
7. SW7	.0	.1	.0	.0	.0	.0	.5	.0	.0	.0	.2	.0
8. NW7	.0	.2	.0	.0	.0	.0	.3	.0	.0	.0	.2	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: MAIN STREET AND 213TH STREET PM WP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	* Y1	* X2	* Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	7	-450	7	-150	* AG	1314	3.5	.0	15.0
B. NA	7	-150	7	0	* AG	1314	5.2	.0	13.5
C. ND	7	0	7	150	* AG	1242	3.8	.0	9.9
D. NE	7	150	7	450	* AG	1242	3.5	.0	15.0
E. SF	-7	450	-7	150	* AG	1166	3.5	.0	15.0
F. SA	-7	150	-7	0	* AG	936	5.2	.0	13.5
G. SD	-7	0	-7	-150	* AG	1120	3.8	.0	9.9
H. SE	-7	-150	-7	-450	* AG	1120	3.5	.0	15.0
I. WF	450	2	150	2	* AG	313	3.5	.0	10.5
J. WA	150	2	0	2	* AG	129	8.6	.0	9.9
K. WD	0	540	0	570	* AG	0	8.3	.0	9.9
L. WE	0	540	0	570	* AG	0	3.5	.0	10.5
M. EF	0	540	0	570	* AG	0	3.5	.0	10.5
N. EA	0	540	0	570	* AG	0	8.6	.0	9.9
O. ED	0	-2	150	-2	* AG	431	8.6	.0	9.9
P. EE	150	-2	450	-2	* AG	431	3.5	.0	10.5
Q. NL	0	-570	0	-540	* AG	0	5.0	.0	9.9
R. SL	0	0	-5	150	* AG	230	5.0	.0	9.9
S. WL	0	0	150	2	* AG	184	8.6	.0	9.9
T. EL	0	-570	0	-540	* AG	0	8.6	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	* Y	* Z
1. NE3	14	8	1.8
2. SE3	14	-8	1.8
3. SW3	-14	-8	1.8
4. NW3	-14	8	1.8
5. NE7	18	11	1.8
6. SE7	18	-11	1.8
7. SW7	-18	-11	1.8
8. NW7	-18	11	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	* D	* E	* F	* G	* H
1. NE3	185.	1.9	.1	1.1	.0	.0	.0	.0	.0	.2
2. SE3	352.	1.6	.0	.0	.6	.0	.1	.2	.0	.0
3. SW3	86.	1.7	.0	.3	.0	.0	.0	.0	.3	.0
4. NW3	95.	1.5	.0	.0	.2	.0	.0	.3	.0	.0
5. NE7	187.	1.3	.0	.7	.0	.0	.0	.0	.0	.2
6. SE7	352.	1.2	.0	.0	.4	.0	.2	.1	.0	.0
7. SW7	83.	1.3	.0	.2	.0	.0	.0	.0	.2	.0
8. NW7	97.	1.2	.0	.0	.1	.0	.0	.3	.0	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. NE3	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.1	.0
2. SE3	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0
3. SW3	.0	.1	.0	.0	.0	.0	.7	.0	.0	.0	.2	.0
4. NW3	.0	.2	.0	.0	.0	.0	.4	.0	.0	.0	.3	.0
5. NE7	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
6. SE7	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
7. SW7	.0	.1	.0	.0	.0	.0	.5	.0	.0	.0	.2	.0
8. NW7	.0	.2	.0	.0	.0	.0	.3	.0	.0	.0	.2	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: VERMONT AVENUE AND CARSON STREET AM NP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                  AMB= .0 PPM  
 SIGTH= 5. DEGREES              TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	* Y1	* X2	* Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	7	-450	7	-150	* AG	843	3.5	.0	15.0
B. NA	7	-150	7	0	* AG	758	7.1	.0	13.5
C. ND	7	0	7	150	* AG	840	4.6	.0	9.9
D. NE	7	150	7	450	* AG	840	3.5	.0	15.0
E. SF	-7	450	-7	150	* AG	686	3.5	.0	15.0
F. SA	-7	150	-7	0	* AG	593	7.1	.0	13.5
G. SD	-7	0	-7	-150	* AG	685	4.4	.0	9.9
H. SE	-7	-150	-7	-450	* AG	685	3.5	.0	15.0
I. WF	450	7	150	7	* AG	1770	3.5	.0	15.0
J. WA	150	7	0	7	* AG	1575	5.7	.0	13.5
K. WD	0	7	-150	7	* AG	1721	4.4	.0	9.9
L. WE	-150	7	-450	7	* AG	1721	3.5	.0	15.0
M. EF	-450	-7	-150	-7	* AG	1141	3.5	.0	15.0
N. EA	-150	-7	0	-7	* AG	1037	5.3	.0	13.5
O. ED	0	-7	150	-7	* AG	1194	3.9	.0	9.9
P. EE	150	-7	450	-7	* AG	1194	3.5	.0	15.0
Q. NL	0	0	5	-150	* AG	85	7.1	.0	9.9
R. SL	0	0	-5	150	* AG	93	7.1	.0	9.9
S. WL	0	0	150	5	* AG	195	5.2	.0	9.9
T. EL	0	0	-150	-5	* AG	104	5.2	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	* Y	* Z
1. NE3	14	14	1.8
2. SE3	14	-14	1.8
3. SW3	-14	-14	1.8
4. NW3	-14	14	1.8
5. NE7	18	18	1.8
6. SE7	18	-18	1.8
7. SW7	-18	-18	1.8
8. NW7	-18	18	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	* D	* E	* F	* G	* H
1. NE3	262.	2.2	.0	.0	.2	.0	.0	.2	.0	.0
2. SE3	351.	1.8	.0	.2	.5	.0	.0	.2	.0	.0
3. SW3	82.	1.9	.0	.2	.0	.0	.0	.0	.2	.0
4. NW3	95.	2.2	.0	.0	.1	.0	.0	.3	.0	.0
5. NE7	187.	1.5	.0	.6	.0	.0	.0	.0	.0	.1
6. SE7	277.	1.5	.0	.3	.0	.0	.0	.0	.1	.0
7. SW7	80.	1.4	.0	.2	.0	.0	.0	.0	.2	.0
8. NW7	97.	1.7	.0	.0	.1	.0	.0	.2	.0	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. NE3	.0	.3	.9	.0	.1	.2	.0	.0	.0	.0	.0	.0
2. SE3	.0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0
3. SW3	.2	.4	.0	.0	.0	.2	.6	.0	.0	.0	.0	.0
4. NW3	.2	1.2	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0
5. NE7	.0	.5	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
6. SE7	.0	.0	.1	.3	.0	.6	.0	.0	.0	.0	.0	.0
7. SW7	.1	.4	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0
8. NW7	.0	.9	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: VERMONT AVENUE AND CARSON STREET AM WP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	* Y1	* X2	* Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	7	-450	7	-150	* AG	849	3.5	.0	15.0
B. NA	7	-150	7	0	* AG	764	7.1	.0	13.5
C. ND	7	0	7	150	* AG	840	4.6	.0	9.9
D. NE	7	150	7	450	* AG	840	3.5	.0	15.0
E. SF	-7	450	-7	150	* AG	778	3.5	.0	15.0
F. SA	-7	150	-7	0	* AG	646	6.8	.0	13.5
G. SD	-7	0	-7	-150	* AG	689	4.3	.0	9.9
H. SE	-7	-150	-7	-450	* AG	689	3.5	.0	15.0
I. WF	450	7	150	7	* AG	1794	3.5	.0	15.0
J. WA	150	7	0	7	* AG	1595	5.7	.0	13.5
K. WD	0	7	-150	7	* AG	1794	4.4	.0	9.9
L. WE	-150	7	-450	7	* AG	1794	3.5	.0	15.0
M. EF	-450	-7	-150	-7	* AG	1222	3.5	.0	15.0
N. EA	-150	-7	0	-7	* AG	1118	5.5	.0	13.5
O. ED	0	-7	150	-7	* AG	1320	4.1	.0	9.9
P. EE	150	-7	450	-7	* AG	1320	3.5	.0	15.0
Q. NL	0	0	5	-150	* AG	85	6.8	.0	9.9
R. SL	0	0	-5	150	* AG	132	6.8	.0	9.9
S. WL	0	0	150	5	* AG	199	5.3	.0	9.9
T. EL	0	0	-150	-5	* AG	104	5.3	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	* Y	* Z
1. NE3	14	14	1.8
2. SE3	14	-14	1.8
3. SW3	-14	-14	1.8
4. NW3	-14	14	1.8
5. NE7	18	18	1.8
6. SE7	18	-18	1.8
7. SW7	-18	-18	1.8
8. NW7	-18	18	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	* D	* E	* F	* G	* H
1. NE3	262.	2.2	.0	.0	.2	.0	.0	.2	.0	.0
2. SE3	351.	1.9	.0	.2	.5	.0	.0	.2	.0	.0
3. SW3	82.	2.0	.0	.2	.0	.0	.0	.0	.2	.0
4. NW3	95.	2.3	.0	.0	.1	.0	.0	.3	.0	.0
5. NE7	187.	1.6	.0	.6	.0	.0	.0	.0	.0	.1
6. SE7	277.	1.6	.0	.3	.0	.0	.0	.0	.0	.0
7. SW7	80.	1.5	.0	.2	.0	.0	.0	.0	.1	.0
8. NW7	97.	1.8	.0	.0	.1	.0	.0	.2	.0	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. NE3	.0	.3	1.0	.0	.1	.3	.0	.0	.0	.0	.0	.0
2. SE3	.0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0
3. SW3	.2	.4	.0	.0	.0	.2	.7	.0	.0	.0	.0	.0
4. NW3	.2	1.3	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0
5. NE7	.0	.5	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
6. SE7	.0	.0	.1	.3	.0	.6	.0	.0	.0	.0	.0	.0
7. SW7	.1	.4	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0
8. NW7	.0	.9	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: VERMONT AVENUE AND CARSON STREET PM NP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	* Y1	* X2	* Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	7	-450	7	-150	* AG	814	3.5	.0	15.0
B. NA	7	-150	7	0	* AG	705	6.8	.0	13.5
C. ND	7	0	7	150	* AG	635	4.3	.0	9.9
D. NE	7	150	7	450	* AG	635	3.5	.0	15.0
E. SF	-7	450	-7	150	* AG	1123	3.5	.0	15.0
F. SA	-7	150	-7	0	* AG	960	7.1	.0	13.5
G. SD	-7	0	-7	-150	* AG	962	5.0	.0	9.9
H. SE	-7	-150	-7	-450	* AG	962	3.5	.0	15.0
I. WF	450	7	150	7	* AG	1468	3.5	.0	15.0
J. WA	150	7	0	7	* AG	1371	5.9	.0	13.5
K. WD	0	7	-150	7	* AG	1579	4.2	.0	9.9
L. WE	-150	7	-450	7	* AG	1579	3.5	.0	15.0
M. EF	-450	-7	-150	-7	* AG	1781	3.5	.0	15.0
N. EA	-150	-7	0	-7	* AG	1678	6.1	.0	13.5
O. ED	0	-7	150	-7	* AG	2010	5.2	.0	9.9
P. EE	150	-7	450	-7	* AG	2010	3.5	.0	15.0
Q. NL	0	0	5	-150	* AG	109	6.8	.0	9.9
R. SL	0	0	-5	150	* AG	163	6.8	.0	9.9
S. WL	0	0	150	5	* AG	97	5.3	.0	9.9
T. EL	0	0	-150	-5	* AG	103	5.3	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	* Y	* Z
1. NE3	14	14	1.8
2. SE3	14	-14	1.8
3. SW3	-14	-14	1.8
4. NW3	-14	14	1.8
5. NE7	18	18	1.8
6. SE7	18	-18	1.8
7. SW7	-18	-18	1.8
8. NW7	-18	18	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	* D	* E	* F	* G	* H
1. NE3	261.	2.3	.0	.0	.2	.0	.0	.3	.0	.0
2. SE3	275.	2.5	.0	.3	.0	.0	.0	.0	.2	.0
3. SW3	82.	2.7	.0	.2	.0	.0	.0	.0	.3	.0
4. NW3	95.	2.4	.0	.0	.1	.0	.0	.4	.0	.0
5. NE7	258.	1.6	.0	.0	.1	.0	.0	.2	.0	.0
6. SE7	277.	1.9	.0	.3	.0	.0	.0	.0	.2	.0
7. SW7	81.	1.8	.0	.2	.0	.0	.0	.0	.2	.0
8. NW7	98.	1.9	.0	.0	.0	.0	.0	.4	.0	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. NE3	.0	.3	.8	.0	.1	.5	.0	.0	.0	.0	.0	.0
2. SE3	.0	.0	.0	.3	.2	1.4	.0	.0	.0	.0	.0	.0
3. SW3	.2	.3	.0	.0	.0	.4	1.2	.0	.0	.0	.0	.0
4. NW3	.1	1.1	.0	.0	.0	.0	.1	.3	.0	.0	.0	.0
5. NE7	.0	.0	.6	.0	.0	.5	.0	.0	.0	.0	.0	.0
6. SE7	.0	.0	.1	.2	.0	1.0	.0	.0	.0	.0	.0	.0
7. SW7	.1	.3	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0
8. NW7	.0	.8	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: VERMONT AVENUE AND CARSON STREET PM WP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	* Y1	* X2	* Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	7	-450	7	-150	* AG	830	3.5	.0	15.0
B. NA	7	-150	7	0	* AG	721	6.8	.0	13.5
C. ND	7	0	7	150	* AG	635	4.3	.0	9.9
D. NE	7	150	7	450	* AG	635	3.5	.0	15.0
E. SF	-7	450	-7	150	* AG	1283	3.5	.0	15.0
F. SA	-7	150	-7	0	* AG	1026	7.1	.0	13.5
G. SD	-7	0	-7	-150	* AG	980	5.0	.0	9.9
H. SE	-7	-150	-7	-450	* AG	980	3.5	.0	15.0
I. WF	450	7	150	7	* AG	1584	3.5	.0	15.0
J. WA	150	7	0	7	* AG	1469	5.9	.0	13.5
K. WD	0	7	-150	7	* AG	1743	4.6	.0	9.9
L. WE	-150	7	-450	7	* AG	1743	3.5	.0	15.0
M. EF	-450	-7	-150	-7	* AG	1952	3.5	.0	15.0
N. EA	-150	-7	0	-7	* AG	1849	6.1	.0	13.5
O. ED	0	-7	150	-7	* AG	2291	5.2	.0	9.9
P. EE	150	-7	450	-7	* AG	2291	3.5	.0	15.0
Q. NL	0	0	5	-150	* AG	109	6.8	.0	9.9
R. SL	0	0	-5	150	* AG	257	7.1	.0	9.9
S. WL	0	0	150	5	* AG	115	5.3	.0	9.9
T. EL	0	0	-150	-5	* AG	103	5.3	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	* Y	* Z
1. NE3	14	14	1.8
2. SE3	14	-14	1.8
3. SW3	-14	-14	1.8
4. NW3	-14	14	1.8
5. NE7	18	18	1.8
6. SE7	18	-18	1.8
7. SW7	-18	-18	1.8
8. NW7	-18	18	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	* D	* E	* F	* G	* H
1. NE3	262.	2.6	.0	.0	.2	.0	.0	.3	.0	.0
2. SE3	275.	2.7	.0	.3	.0	.0	.0	.0	.2	.0
3. SW3	82.	2.9	.0	.2	.0	.0	.0	.0	.3	.0
4. NW3	95.	2.6	.0	.0	.1	.0	.0	.5	.0	.0
5. NE7	258.	1.8	.0	.0	.1	.0	.0	.3	.0	.0
6. SE7	278.	2.1	.0	.3	.0	.0	.0	.0	.2	.0
7. SW7	80.	1.9	.0	.2	.0	.0	.0	.0	.2	.0
8. NW7	98.	2.0	.0	.0	.0	.0	.0	.4	.0	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. NE3	.0	.3	1.0	.0	.2	.5	.0	.0	.0	.0	.0	.0
2. SE3	.0	.0	.1	.3	.2	1.5	.0	.0	.0	.0	.0	.0
3. SW3	.2	.4	.0	.0	.0	.4	1.4	.0	.0	.0	.0	.0
4. NW3	.2	1.2	.0	.0	.0	.0	.1	.4	.0	.0	.0	.0
5. NE7	.0	.0	.7	.0	.0	.5	.0	.0	.0	.0	.0	.0
6. SE7	.0	.0	.2	.2	.0	1.1	.0	.0	.0	.0	.0	.0
7. SW7	.1	.4	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0
8. NW7	.0	.9	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: AVALON BOULEVARD AND CARSON STREET AM NP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	* 9	-450	9	-150	* AG	1401	3.5	.0	19.5
B. NA	* 9	-150	9	0	* AG	1294	6.1	.0	18.0
C. ND	* 9	0	9	150	* AG	1222	4.1	.0	13.5
D. NE	* 9	150	9	450	* AG	1222	3.5	.0	19.5
E. SF	* -9	450	-9	150	* AG	988	3.5	.0	19.5
F. SA	* -9	150	-9	0	* AG	829	5.9	.0	18.0
G. SD	* -9	0	-9	-150	* AG	1055	4.1	.0	13.5
H. SE	* -9	-150	-9	-450	* AG	1055	3.5	.0	19.5
I. WF	* 450	9	150	9	* AG	1131	3.5	.0	15.0
J. WA	* 150	9	0	9	* AG	823	6.3	.0	18.0
K. WD	* 0	9	-150	9	* AG	968	4.2	.0	9.9
L. WE	* -150	9	-450	9	* AG	968	3.5	.0	15.0
M. EF	* -450	-9	-150	-9	* AG	967	3.5	.0	15.0
N. EA	* -150	-9	0	-9	* AG	770	6.3	.0	18.0
O. ED	* 0	-9	150	-9	* AG	1242	4.5	.0	9.9
P. EE	* 150	-9	450	-9	* AG	1242	3.5	.0	15.0
Q. NL	* 0	0	5	-150	* AG	107	5.9	.0	9.9
R. SL	* 0	0	-5	150	* AG	159	5.9	.0	9.9
S. WL	* 0	0	150	7	* AG	308	6.3	.0	9.9
T. EL	* 0	0	-150	-7	* AG	197	6.3	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	Y	Z
1. NE3	* 19	17	1.8
2. SE3	* 19	-17	1.8
3. SW3	* -19	-17	1.8
4. NW3	* -19	17	1.8
5. NE7	* 23	20	1.8
6. SE7	* 23	-20	1.8
7. SW7	* -23	-20	1.8
8. NW7	* -23	20	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	A	B	C	D	E	F	G	H
1. NE3	* 186.	* 1.9	* .1	.9	.0	.0	.0	.0	.0	.2
2. SE3	* 351.	* 1.8	* .0	.3	.6	.0	.1	.1	.0	.0
3. SW3	* 83.	* 1.9	* .0	.3	.0	.0	.0	.0	.2	.0
4. NW3	* 171.	* 1.6	* .2	.2	.0	.0	.0	.2	.5	.0
5. NE7	* 188.	* 1.6	* .0	.7	.0	.0	.0	.0	.0	.2
6. SE7	* 276.	* 1.4	* .0	.4	.0	.0	.0	.0	.1	.0
7. SW7	* 78.	* 1.5	* .0	.2	.0	.0	.0	.0	.2	.0
8. NW7	* 96.	* 1.5	* .0	.0	.1	.0	.0	.2	.0	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	* .0	.3	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
2. SE3	* .0	.2	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0
3. SW3	* .2	.1	.0	.0	.0	.3	.7	.0	.0	.0	.0	.0
4. NW3	* .0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0
5. NE7	* .0	.3	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
6. SE7	* .0	.0	.0	.2	.0	.5	.0	.0	.0	.0	.0	.0
7. SW7	* .0	.2	.0	.0	.0	.1	.5	.0	.0	.0	.1	.0
8. NW7	* .1	.6	.0	.0	.0	.0	.0	.2	.0	.0	.1	.0



CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: AVALON BOULEVARD AND CARSON STREET AM WP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	* Y1	* X2	* Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	9	-450	9	-150	* AG	1427	3.5	.0	19.5
B. NA	9	-150	9	0	* AG	1320	6.1	.0	18.0
C. ND	9	0	9	150	* AG	1311	4.0	.0	13.5
D. NE	9	150	9	450	* AG	1311	3.5	.0	19.5
E. SF	-9	450	-9	150	* AG	1131	3.5	.0	19.5
F. SA	-9	150	-9	0	* AG	909	5.9	.0	18.0
G. SD	-9	0	-9	-150	* AG	1080	4.0	.0	13.5
H. SE	-9	-150	-9	-450	* AG	1080	3.5	.0	19.5
I. WF	450	9	150	9	* AG	1194	3.5	.0	15.0
J. WA	150	9	0	9	* AG	886	6.3	.0	18.0
K. WD	0	9	-150	9	* AG	1023	4.3	.0	9.9
L. WE	-150	9	-450	9	* AG	1023	3.5	.0	15.0
M. EF	-450	-9	-150	-9	* AG	967	3.5	.0	15.0
N. EA	-150	-9	0	-9	* AG	770	6.3	.0	18.0
O. ED	0	-9	150	-9	* AG	1305	5.3	.0	9.9
P. EE	150	-9	450	-9	* AG	1305	3.5	.0	15.0
Q. NL	0	0	5	-150	* AG	107	5.9	.0	9.9
R. SL	0	0	-5	150	* AG	222	5.9	.0	9.9
S. WL	0	0	150	7	* AG	308	6.3	.0	9.9
T. EL	0	0	-150	-7	* AG	197	6.3	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	* Y	* Z
1. NE3	19	17	1.8
2. SE3	19	-17	1.8
3. SW3	-19	-17	1.8
4. NW3	-19	17	1.8
5. NE7	23	20	1.8
6. SE7	23	-20	1.8
7. SW7	-23	-20	1.8
8. NW7	-23	20	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	* D	* E	* F	* G	* H
1. NE3	186.	2.0	.1	1.0	.0	.0	.0	.0	.0	.2
2. SE3	351.	2.0	.0	.3	.6	.0	.1	.2	.0	.0
3. SW3	83.	2.1	.0	.3	.0	.0	.0	.0	.2	.0
4. NW3	171.	1.6	.2	.2	.0	.0	.0	.2	.5	.0
5. NE7	188.	1.7	.0	.7	.0	.0	.0	.0	.0	.2
6. SE7	344.	1.5	.0	.0	.4	.0	.0	.3	.0	.0
7. SW7	78.	1.7	.0	.2	.0	.0	.0	.0	.2	.0
8. NW7	97.	1.6	.0	.0	.2	.0	.0	.3	.0	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. NE3	.0	.3	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
2. SE3	.0	.2	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0
3. SW3	.2	.1	.0	.0	.0	.3	.9	.0	.0	.0	.0	.0
4. NW3	.0	.0	.3	.0	.0	.2	.0	.0	.0	.0	.0	.0
5. NE7	.0	.3	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
6. SE7	.0	.2	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0
7. SW7	.0	.3	.0	.0	.0	.1	.6	.0	.0	.0	.1	.0
8. NW7	.0	.6	.0	.0	.0	.0	.2	.0	.0	.0	.1	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: AVALON BOULEVARD AND CARSON STREET PM NP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	* Y1	* X2	* Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	9	-450	9	-150	* AG	1277	3.5	.0	19.5
B. NA	9	-150	9	0	* AG	1086	6.1	.0	18.0
C. ND	9	0	9	150	* AG	1244	4.1	.0	13.5
D. NE	9	150	9	450	* AG	1244	3.5	.0	19.5
E. SF	-9	450	-9	150	* AG	1428	3.5	.0	19.5
F. SA	-9	150	-9	0	* AG	1204	6.1	.0	18.0
G. SD	-9	0	-9	-150	* AG	1303	4.1	.0	13.5
H. SE	-9	-150	-9	-450	* AG	1303	3.5	.0	19.5
I. WF	450	9	150	9	* AG	1125	3.5	.0	15.0
J. WA	150	9	0	9	* AG	874	6.3	.0	18.0
K. WD	0	9	-150	9	* AG	1226	4.4	.0	9.9
L. WE	-150	9	-450	9	* AG	1226	3.5	.0	15.0
M. EF	-450	-9	-150	-9	* AG	1337	3.5	.0	15.0
N. EA	-150	-9	0	-9	* AG	1024	6.3	.0	18.0
O. ED	0	-9	150	-9	* AG	1394	5.0	.0	9.9
P. EE	150	-9	450	-9	* AG	1394	3.5	.0	15.0
Q. NL	0	0	5	-150	* AG	191	6.1	.0	9.9
R. SL	0	0	-5	150	* AG	224	6.1	.0	9.9
S. WL	0	0	150	7	* AG	251	6.3	.0	9.9
T. EL	0	0	-150	-7	* AG	313	6.3	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	* Y	* Z
1. NE3	19	17	1.8
2. SE3	19	-17	1.8
3. SW3	-19	-17	1.8
4. NW3	-19	17	1.8
5. NE7	23	20	1.8
6. SE7	23	-20	1.8
7. SW7	-23	-20	1.8
8. NW7	-23	20	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	* D	* E	* F	* G	* H
1. NE3	262.	2.1	.0	.0	.3	.0	.0	.2	.0	.0
2. SE3	351.	2.0	.0	.2	.6	.0	.2	.2	.0	.0
3. SW3	84.	2.2	.0	.2	.0	.0	.0	.0	.3	.0
4. NW3	171.	1.9	.2	.2	.0	.0	.0	.2	.6	.0
5. NE7	257.	1.7	.0	.0	.2	.0	.0	.2	.0	.0
6. SE7	276.	1.7	.0	.3	.0	.0	.0	.0	.2	.0
7. SW7	78.	1.7	.0	.2	.0	.0	.0	.0	.3	.0
8. NW7	97.	1.6	.0	.0	.2	.0	.0	.4	.0	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. NE3	.0	.3	.7	.0	.2	.2	.0	.0	.0	.0	.0	.1
2. SE3	.0	.2	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0
3. SW3	.2	.0	.0	.0	.0	.3	.9	.0	.0	.0	.0	.0
4. NW3	.0	.0	.3	.0	.0	.2	.0	.0	.0	.0	.0	.0
5. NE7	.0	.2	.5	.0	.0	.3	.0	.0	.0	.0	.0	.2
6. SE7	.0	.0	.0	.2	.1	.7	.0	.0	.0	.0	.0	.1
7. SW7	.0	.2	.0	.0	.0	.2	.6	.0	.0	.0	.1	.0
8. NW7	.0	.6	.0	.0	.0	.0	.2	.0	.0	.0	.1	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: AVALON BOULEVARD AND CARSON STREET PM WP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	LINK COORDINATES (M) Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	* 9	-450	9	-150	* AG	1327	3.5	.0	19.5
B. NA	* 9	-150	9	0	* AG	1136	5.9	.0	18.0
C. ND	* 9	0	9	150	* AG	1414	4.1	.0	13.5
D. NE	* 9	150	9	450	* AG	1414	3.5	.0	19.5
E. SF	* -9	450	-9	150	* AG	1797	3.5	.0	19.5
F. SA	* -9	150	-9	0	* AG	1465	6.1	.0	18.0
G. SD	* -9	0	-9	-150	* AG	1350	4.1	.0	13.5
H. SE	* -9	-150	-9	-450	* AG	1350	3.5	.0	19.5
I. WF	* 450	9	150	9	* AG	1245	3.5	.0	15.0
J. WA	* 150	9	0	9	* AG	994	6.3	.0	18.0
K. WD	* 0	9	-150	9	* AG	1440	5.5	.0	9.9
L. WE	* -150	9	-450	9	* AG	1440	3.5	.0	15.0
M. EF	* -450	-9	-150	-9	* AG	1337	3.5	.0	15.0
N. EA	* -150	-9	0	-9	* AG	1024	6.5	.0	18.0
O. ED	* 0	-9	150	-9	* AG	1502	6.5	.0	9.9
P. EE	* 150	-9	450	-9	* AG	1502	3.5	.0	15.0
Q. NL	* 0	0	5	-150	* AG	191	5.9	.0	9.9
R. SL	* 0	0	-5	150	* AG	332	5.9	.0	9.9
S. WL	* 0	0	150	7	* AG	251	6.3	.0	9.9
T. EL	* 0	0	-150	-7	* AG	313	6.3	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	COORDINATES (M) Y	Z
1. NE3	* 19	17	1.8
2. SE3	* 19	-17	1.8
3. SW3	* -19	-17	1.8
4. NW3	* -19	17	1.8
5. NE7	* 23	20	1.8
6. SE7	* 23	-20	1.8
7. SW7	* -23	-20	1.8
8. NW7	* -23	20	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	A	B	C	D	E	F	G	H
1. NE3	* 263.	* 2.5	* .0	.0	.3	.0	.0	.3	.0	.0
2. SE3	* 350.	* 2.4	* .0	.2	.6	.0	.2	.3	.0	.0
3. SW3	* 84.	* 2.6	* .0	.2	.0	.0	.0	.0	.3	.0
4. NW3	* 171.	* 2.2	* .2	.2	.0	.0	.0	.3	.6	.0
5. NE7	* 258.	* 2.0	* .0	.0	.3	.0	.0	.3	.0	.0
6. SE7	* 345.	* 1.8	* .0	.0	.5	.0	.0	.4	.0	.0
7. SW7	* 78.	* 2.0	* .0	.2	.0	.0	.0	.0	.3	.0
8. NW7	* 97.	* 1.9	* .0	.0	.2	.0	.0	.4	.0	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	* .0	.3	1.0	.0	.2	.2	.0	.0	.0	.0	.0	.0
2. SE3	* .0	.2	.0	.0	.0	.0	.6	.0	.0	.1	.0	.0
3. SW3	* .2	.1	.0	.0	.0	.4	1.2	.0	.0	.0	.0	.0
4. NW3	* .0	.0	.5	.0	.0	.2	.0	.0	.0	.0	.0	.0
5. NE7	* .0	.2	.7	.0	.0	.3	.0	.0	.0	.0	.0	.1
6. SE7	* .0	.2	.0	.0	.0	.5	.0	.0	.1	.0	.0	.0
7. SW7	* .0	.3	.0	.0	.0	.2	.8	.0	.0	.0	.1	.0
8. NW7	* .0	.7	.0	.0	.0	.0	.2	.0	.0	.1	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: HAMILTON AVENUE AND TORRANCE BOULEVARD AM NP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	* Y1	* X2	* Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	* 2	* -450	* 2	* -150	* AG	0	3.8	.0	10.5
B. NA	* 2	* -150	* 2	* 0	* AG	0	7.3	.0	9.9
C. ND	* 2	* 0	* 2	* 150	* AG	213	4.6	.0	9.9
D. NE	* 2	* 150	* 2	* 450	* AG	213	3.8	.0	10.5
E. SF	* -2	* 450	* -2	* 150	* AG	795	3.8	.0	10.5
F. SA	* -2	* 150	* -2	* 0	* AG	605	8.6	.0	9.9
G. SD	* -2	* 0	* -2	* -150	* AG	0	4.6	.0	9.9
H. SE	* -2	* -150	* -2	* -450	* AG	0	3.8	.0	10.5
I. WF	* 450	* 7	* 150	* 7	* AG	781	3.8	.0	15.0
J. WA	* 150	* 7	* 0	* 7	* AG	781	5.3	.0	9.9
K. WD	* 0	* 7	* -150	* 7	* AG	1325	4.2	.0	9.9
L. WE	* -150	* 7	* -450	* 7	* AG	1325	3.8	.0	15.0
M. EF	* -450	* -7	* -150	* -7	* AG	1141	3.8	.0	15.0
N. EA	* -150	* -7	* 0	* -7	* AG	989	5.3	.0	13.5
O. ED	* 0	* -7	* 150	* -7	* AG	1179	4.1	.0	9.9
P. EE	* 150	* -7	* 450	* -7	* AG	1179	3.8	.0	15.0
Q. NL	* 0	* 0	* 2	* -150	* AG	0	7.3	.0	9.9
R. SL	* 0	* 0	* -2	* 150	* AG	190	7.3	.0	9.9
S. WL	* 0	* 0	* 150	* 5	* AG	0	5.2	.0	9.9
T. EL	* 0	* 0	* -150	* -5	* AG	152	5.2	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	* Y	* Z
1. NE3	* 8	* 14	* 1.8
2. SE3	* 8	* -14	* 1.8
3. SW3	* -8	* -14	* 1.8
4. NW3	* -8	* 14	* 1.8
5. NE7	* 11	* 18	* 1.8
6. SE7	* 11	* -18	* 1.8
7. SW7	* -11	* -18	* 1.8
8. NW7	* -11	* 18	* 1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	* D	* E	* F	* G	* H
1. NE3	* 264.	* 1.7	* .0	* .0	* .0	* .0	* .0	* .3	* .0	* .0
2. SE3	* 354.	* 1.5	* .0	* .0	* .2	* .0	* .0	* .6	* .0	* .0
3. SW3	* 4.	* 2.0	* .0	* .0	* .1	* .0	* .1	* .9	* .0	* .0
4. NW3	* 96.	* 1.5	* .0	* .0	* .0	* .0	* .0	* .4	* .0	* .0
5. NE7	* 263.	* 1.3	* .0	* .0	* .0	* .0	* .0	* .2	* .0	* .0
6. SE7	* 353.	* 1.2	* .0	* .0	* .1	* .0	* .0	* .4	* .0	* .0
7. SW7	* 6.	* 1.5	* .0	* .0	* .0	* .0	* .0	* .6	* .0	* .0
8. NW7	* 97.	* 1.2	* .0	* .0	* .0	* .0	* .0	* .3	* .0	* .0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. NE3	* .0	* .0	* .7	* .0	* .2	* .1	* .0	* .0	* .0	* .0	* .0	* .0
2. SE3	* .0	* .1	* .0	* .0	* .0	* .0	* .3	* .0	* .0	* .2	* .0	* .0
3. SW3	* .0	* .0	* .2	* .0	* .0	* .3	* .0	* .0	* .0	* .2	* .0	* .0
4. NW3	* .0	* .6	* .0	* .0	* .0	* .0	* .2	* .0	* .0	* .0	* .0	* .0
5. NE7	* .0	* .0	* .5	* .0	* .2	* .1	* .0	* .0	* .0	* .0	* .0	* .0
6. SE7	* .0	* .1	* .0	* .0	* .0	* .2	* .0	* .0	* .2	* .0	* .0	* .0
7. SW7	* .0	* .0	* .2	* .0	* .0	* .3	* .0	* .0	* .0	* .2	* .0	* .0
8. NW7	* .0	* .4	* .0	* .0	* .0	* .0	* .2	* .0	* .0	* .0	* .0	* .0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: HAMILTON AVENUE AND TORRANCE BOULEVARD AM WP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	* Y1	* X2	* Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	* 2	* -450	* 2	* -150	* AG	0	3.8	.0	10.5
B. NA	* 2	* -150	* 2	* 0	* AG	0	7.3	.0	9.9
C. ND	* 2	* 0	* 2	* 150	* AG	241	4.6	.0	9.9
D. NE	* 2	* 150	* 2	* 450	* AG	241	3.8	.0	10.5
E. SF	* -2	* 450	* -2	* 150	* AG	821	3.8	.0	10.5
F. SA	* -2	* 150	* -2	* 0	* AG	605	8.6	.0	9.9
G. SD	* -2	* 0	* -2	* -150	* AG	0	4.6	.0	9.9
H. SE	* -2	* -150	* -2	* -450	* AG	0	3.8	.0	10.5
I. WF	* 450	* 7	* 150	* 7	* AG	811	3.8	.0	15.0
J. WA	* 150	* 7	* 0	* 7	* AG	811	5.3	.0	9.9
K. WD	* 0	* 7	* -150	* 7	* AG	1327	4.2	.0	9.9
L. WE	* -150	* 7	* -450	* 7	* AG	1327	3.8	.0	15.0
M. EF	* -450	* -7	* -150	* -7	* AG	1198	3.8	.0	15.0
N. EA	* -150	* -7	* 0	* -7	* AG	1046	5.3	.0	13.5
O. ED	* 0	* -7	* 150	* -7	* AG	1262	4.1	.0	9.9
P. EE	* 150	* -7	* 450	* -7	* AG	1262	3.8	.0	15.0
Q. NL	* 0	* 0	* 2	* -150	* AG	0	7.3	.0	9.9
R. SL	* 0	* 0	* -2	* 150	* AG	216	7.3	.0	9.9
S. WL	* 0	* 0	* 150	* 5	* AG	0	5.2	.0	9.9
T. EL	* 0	* 0	* -150	* -5	* AG	152	5.2	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	* Y	* Z
1. NE3	* 8	* 14	* 1.8
2. SE3	* 8	* -14	* 1.8
3. SW3	* -8	* -14	* 1.8
4. NW3	* -8	* 14	* 1.8
5. NE7	* 11	* 18	* 1.8
6. SE7	* 11	* -18	* 1.8
7. SW7	* -11	* -18	* 1.8
8. NW7	* -11	* 18	* 1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	* D	* E	* F	* G	* H
1. NE3	* 264.	* 1.7	* .0	* .0	* .0	* .0	* .0	* .3	* .0	* .0
2. SE3	* 354.	* 1.6	* .0	* .0	* .2	* .0	* .0	* .6	* .0	* .0
3. SW3	* 4.	* 2.1	* .0	* .0	* .1	* .0	* .1	* .9	* .0	* .0
4. NW3	* 96.	* 1.6	* .0	* .0	* .0	* .0	* .0	* .4	* .0	* .0
5. NE7	* 263.	* 1.3	* .0	* .0	* .0	* .0	* .0	* .2	* .0	* .0
6. SE7	* 353.	* 1.3	* .0	* .0	* .2	* .0	* .0	* .4	* .0	* .0
7. SW7	* 6.	* 1.5	* .0	* .0	* .0	* .0	* .0	* .6	* .0	* .0
8. NW7	* 97.	* 1.2	* .0	* .0	* .0	* .0	* .0	* .3	* .0	* .0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. NE3	* .0	* .0	* .7	* .0	* .2	* .1	* .0	* .0	* .0	* .0	* .0	* .0
2. SE3	* .0	* .2	* .0	* .0	* .0	* .0	* .3	* .0	* .0	* .3	* .0	* .0
3. SW3	* .0	* .0	* .2	* .0	* .0	* .4	* .0	* .0	* .0	* .3	* .0	* .0
4. NW3	* .0	* .6	* .0	* .0	* .0	* .1	* .2	* .0	* .0	* .0	* .0	* .0
5. NE7	* .0	* .0	* .5	* .0	* .2	* .1	* .0	* .0	* .0	* .0	* .0	* .0
6. SE7	* .0	* .1	* .0	* .0	* .0	* .3	* .0	* .0	* .2	* .0	* .0	* .0
7. SW7	* .0	* .0	* .2	* .0	* .0	* .3	* .0	* .0	* .0	* .2	* .0	* .0
8. NW7	* .0	* .4	* .0	* .0	* .0	* .0	* .2	* .0	* .0	* .0	* .0	* .0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: HAMILTON AVENUE AND TORRANCE BOULEVARD PM NP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	* 540	0	570	0	* AG	0	3.8	.0	10.5
B. NA	* 540	0	570	0	* AG	0	8.0	.0	9.9
C. ND	* 0	2	150	2	* AG	415	8.3	.0	9.9
D. NE	* 150	2	450	23	* AG	415	3.8	.0	10.5
E. SF	* -2	450	-2	150	* AG	504	3.8	.0	10.5
F. SA	* -2	150	-2	0	* AG	347	8.6	.0	9.9
G. SD	* -2	0	-2	-150	* AG	0	5.0	.0	9.9
H. SE	* -2	-150	-2	-450	* AG	0	3.8	.0	10.5
I. WF	* 450	7	150	7	* AG	746	3.8	.0	15.0
J. WA	* 150	7	0	7	* AG	746	5.3	.0	9.9
K. WD	* 0	7	-150	7	* AG	980	4.1	.0	9.9
L. WE	* -150	7	-450	7	* AG	980	3.8	.0	15.0
M. EF	* -450	-7	-150	-7	* AG	1332	3.8	.0	15.0
N. EA	* -150	-7	0	-7	* AG	1030	5.3	.0	13.5
O. ED	* 0	-7	150	-7	* AG	1187	4.1	.0	9.9
P. EE	* 150	-7	450	-7	* AG	1187	3.8	.0	15.0
Q. NL	* 570	0	540	0	* AG	0	8.0	.0	9.9
R. SL	* 0	0	-2	150	* AG	157	8.0	.0	9.9
S. WL	* 0	0	150	5	* AG	0	5.2	.0	9.9
T. EL	* 0	0	-150	-5	* AG	302	5.3	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	Y	Z
1. NE3	* 8	14	1.8
2. SE3	* 8	-14	1.8
3. SW3	* -8	-14	1.8
4. NW3	* -8	14	1.8
5. NE7	* 11	18	1.8
6. SE7	* 11	-18	1.8
7. SW7	* -11	-18	1.8
8. NW7	* -11	18	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	A	B	C	D	E	F	G	H
1. NE3	* 263.	* 1.4	* .0	.0	.0	.0	.0	.2	.0	.0
2. SE3	* 275.	* 1.4	* .0	.0	.0	.0	.0	.0	.0	.0
3. SW3	* 83.	* 1.3	* .0	.0	.2	.0	.0	.0	.0	.0
4. NW3	* 97.	* 1.6	* .0	.0	.3	.0	.0	.2	.0	.0
5. NE7	* 262.	* 1.1	* .0	.0	.0	.0	.0	.1	.0	.0
6. SE7	* 277.	* 1.0	* .0	.0	.0	.0	.0	.0	.0	.0
7. SW7	* 82.	* 1.0	* .0	.0	.2	.0	.0	.0	.0	.0
8. NW7	* 98.	* 1.3	* .0	.0	.3	.0	.0	.2	.0	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	* .0	.0	.6	.0	.2	.2	.0	.0	.0	.0	.0	.1
2. SE3	* .0	.0	.0	.2	.2	.9	.0	.0	.0	.0	.0	.1
3. SW3	* .1	.1	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0
4. NW3	* .0	.6	.0	.0	.0	.0	.1	.2	.0	.0	.0	.0
5. NE7	* .0	.0	.4	.0	.2	.1	.0	.0	.0	.0	.0	.0
6. SE7	* .0	.0	.0	.2	.0	.6	.0	.0	.0	.0	.0	.1
7. SW7	* .1	.1	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0
8. NW7	* .0	.4	.0	.0	.0	.0	.1	.2	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: HAMILTON AVENUE AND TORRANCE BOULEVARD PM WP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	* 540	0	570	0	* AG	0	3.8	.0	10.5
B. NA	* 540	0	570	0	* AG	0	8.0	.0	9.9
C. ND	* 0	2	150	2	* AG	486	8.6	.0	9.9
D. NE	* 150	2	450	23	* AG	486	3.8	.0	10.5
E. SF	* -2	450	-2	150	* AG	568	3.8	.0	10.5
F. SA	* -2	150	-2	0	* AG	347	8.6	.0	9.9
G. SD	* -2	0	-2	-150	* AG	0	5.0	.0	9.9
H. SE	* -2	-150	-2	-450	* AG	0	3.8	.0	10.5
I. WF	* 450	7	150	7	* AG	822	3.8	.0	15.0
J. WA	* 150	7	0	7	* AG	822	5.3	.0	9.9
K. WD	* 0	7	-150	7	* AG	985	4.1	.0	9.9
L. WE	* -150	7	-450	7	* AG	985	3.8	.0	15.0
M. EF	* -450	-7	-150	-7	* AG	1457	3.8	.0	15.0
N. EA	* -150	-7	0	-7	* AG	1155	5.3	.0	13.5
O. ED	* 0	-7	150	-7	* AG	1376	4.2	.0	9.9
P. EE	* 150	-7	450	-7	* AG	1376	3.8	.0	15.0
Q. NL	* 570	0	540	0	* AG	0	8.0	.0	9.9
R. SL	* 0	0	-2	150	* AG	221	8.0	.0	9.9
S. WL	* 0	0	150	5	* AG	0	5.2	.0	9.9
T. EL	* 0	0	-150	-5	* AG	302	5.3	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	Y	Z
1. NE3	* 8	14	1.8
2. SE3	* 8	-14	1.8
3. SW3	* -8	-14	1.8
4. NW3	* -8	14	1.8
5. NE7	* 11	18	1.8
6. SE7	* 11	-18	1.8
7. SW7	* -11	-18	1.8
8. NW7	* -11	18	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	A	B	C	D	E	F	G	H
1. NE3	* 97.	* 1.5	* .0	.0	.4	.0	.0	.0	.0	.0
2. SE3	* 83.	* 1.4	* .0	.0	.2	.1	.0	.0	.0	.0
3. SW3	* 83.	* 1.5	* .0	.0	.3	.1	.0	.0	.0	.0
4. NW3	* 97.	* 1.8	* .0	.0	.4	.0	.0	.2	.0	.0
5. NE7	* 262.	* 1.1	* .0	.0	.0	.0	.0	.1	.0	.0
6. SE7	* 352.	* 1.1	* .0	.0	.2	.0	.0	.3	.0	.0
7. SW7	* 82.	* 1.1	* .0	.0	.2	.0	.0	.0	.0	.0
8. NW7	* 98.	* 1.4	* .0	.0	.3	.0	.0	.2	.0	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	* .0	.6	.0	.0	.0	.0	.1	.3	.0	.0	.0	.0
2. SE3	* .2	.1	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0
3. SW3	* .1	.1	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0
4. NW3	* .0	.6	.0	.0	.0	.0	.2	.2	.0	.1	.0	.0
5. NE7	* .0	.0	.4	.0	.2	.2	.0	.0	.0	.0	.0	.0
6. SE7	* .0	.1	.0	.0	.0	.0	.3	.0	.0	.2	.0	.0
7. SW7	* .1	.1	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0
8. NW7	* .0	.4	.0	.0	.0	.0	.1	.2	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: MAIN STREET AND CARSON STREET AM NP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	* Y1	* X2	* Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	9	-450	9	-150	* AG	881	3.5	.0	19.5
B. NA	9	-150	9	0	* AG	737	6.3	.0	18.0
C. ND	9	0	9	150	* AG	884	4.1	.0	13.5
D. NE	9	150	9	450	* AG	884	3.5	.0	19.5
E. SF	-9	450	-9	150	* AG	687	3.5	.0	19.5
F. SA	-9	150	-9	0	* AG	594	6.3	.0	18.0
G. SD	-9	0	-9	-150	* AG	683	4.1	.0	13.5
H. SE	-9	-150	-9	-450	* AG	683	3.5	.0	19.5
I. WF	450	9	150	9	* AG	1132	3.5	.0	19.5
J. WA	150	9	0	9	* AG	996	5.9	.0	18.0
K. WD	0	9	-150	9	* AG	1087	4.0	.0	13.5
L. WE	-150	9	-450	9	* AG	1087	3.5	.0	19.5
M. EF	-450	-9	-150	-9	* AG	820	3.5	.0	19.5
N. EA	-150	-9	0	-9	* AG	685	5.9	.0	18.0
O. ED	0	-9	150	-9	* AG	866	4.0	.0	13.5
P. EE	150	-9	450	-9	* AG	866	3.5	.0	19.5
Q. NL	0	0	5	-150	* AG	144	6.3	.0	9.9
R. SL	0	0	-5	150	* AG	93	6.3	.0	9.9
S. WL	0	0	150	5	* AG	136	5.9	.0	9.9
T. EL	0	0	-150	-5	* AG	135	5.9	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	* Y	* Z
1. NE3	19	19	1.8
2. SE3	19	-19	1.8
3. SW3	-19	-19	1.8
4. NW3	-19	19	1.8
5. NE7	23	23	1.8
6. SE7	23	-23	1.8
7. SW7	-23	-23	1.8
8. NW7	-23	23	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	* D	* E	* F	* G	* H
1. NE3	262.	1.4	.0	.0	.2	.0	.0	.1	.0	.0
2. SE3	352.	1.3	.0	.2	.4	.0	.1	.0	.0	.0
3. SW3	81.	1.3	.0	.2	.0	.0	.0	.0	.2	.0
4. NW3	96.	1.4	.0	.0	.1	.0	.0	.2	.0	.0
5. NE7	188.	1.2	.0	.5	.0	.0	.0	.0	.0	.1
6. SE7	278.	1.1	.0	.2	.0	.0	.0	.0	.0	.0
7. SW7	76.	1.0	.0	.1	.0	.0	.0	.0	.1	.0
8. NW7	97.	1.2	.0	.0	.1	.0	.0	.2	.0	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. NE3	.0	.2	.5	.0	.1	.1	.0	.0	.0	.0	.0	.0
2. SE3	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
3. SW3	.1	.2	.0	.0	.0	.2	.4	.0	.0	.0	.0	.0
4. NW3	.0	.7	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0
5. NE7	.0	.3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
6. SE7	.0	.0	.0	.2	.0	.4	.0	.0	.0	.0	.0	.0
7. SW7	.0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0
8. NW7	.0	.5	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0



CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: MAIN STREET AND CARSON STREET AM WP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	* Y1	* X2	* Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	9	-450	9	-150	* AG	963	3.5	.0	19.5
B. NA	9	-150	9	0	* AG	819	6.5	.0	18.0
C. ND	9	0	9	150	* AG	1058	4.2	.0	13.5
D. NE	9	150	9	450	* AG	1058	3.5	.0	19.5
E. SF	-9	450	-9	150	* AG	707	3.5	.0	19.5
F. SA	-9	150	-9	0	* AG	614	6.5	.0	18.0
G. SD	-9	0	-9	-150	* AG	735	4.1	.0	13.5
H. SE	-9	-150	-9	-450	* AG	735	3.5	.0	19.5
I. WF	450	9	150	9	* AG	1186	3.5	.0	19.5
J. WA	150	9	0	9	* AG	1016	5.9	.0	18.0
K. WD	0	9	-150	9	* AG	1109	4.0	.0	13.5
L. WE	-150	9	-450	9	* AG	1109	3.5	.0	19.5
M. EF	-450	-9	-150	-9	* AG	912	3.5	.0	19.5
N. EA	-150	-9	0	-9	* AG	685	5.7	.0	18.0
O. ED	0	-9	150	-9	* AG	866	4.0	.0	13.5
P. EE	150	-9	450	-9	* AG	866	3.5	.0	19.5
Q. NL	0	0	5	-150	* AG	144	6.5	.0	9.9
R. SL	0	0	-5	150	* AG	93	6.5	.0	9.9
S. WL	0	0	150	5	* AG	170	5.7	.0	9.9
T. EL	0	0	-150	-5	* AG	227	5.7	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	* Y	* Z
1. NE3	19	19	1.8
2. SE3	19	-19	1.8
3. SW3	-19	-19	1.8
4. NW3	-19	19	1.8
5. NE7	23	23	1.8
6. SE7	23	-23	1.8
7. SW7	-23	-23	1.8
8. NW7	-23	23	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	* D	* E	* F	* G	* H
1. NE3	262.	1.5	.0	.0	.3	.0	.0	.1	.0	.0
2. SE3	352.	1.5	.0	.2	.5	.0	.1	.1	.0	.0
3. SW3	81.	1.4	.0	.2	.0	.0	.0	.0	.2	.0
4. NW3	96.	1.5	.0	.0	.1	.0	.0	.2	.0	.0
5. NE7	188.	1.2	.0	.5	.0	.0	.0	.0	.0	.1
6. SE7	278.	1.1	.0	.3	.0	.0	.0	.0	.0	.0
7. SW7	77.	1.1	.0	.2	.0	.0	.0	.0	.1	.0
8. NW7	97.	1.2	.0	.0	.1	.0	.0	.2	.0	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. NE3	.0	.2	.5	.0	.1	.0	.0	.0	.0	.0	.0	.0
2. SE3	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
3. SW3	.1	.2	.0	.0	.0	.2	.4	.0	.0	.0	.0	.0
4. NW3	.0	.7	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
5. NE7	.0	.3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
6. SE7	.0	.0	.0	.2	.0	.4	.0	.0	.0	.0	.0	.0
7. SW7	.0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0
8. NW7	.0	.6	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: MAIN STREET AND CARSON STREET PM NP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	* Y1	* X2	* Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	9	-450	9	-150	* AG	889	3.5	.0	19.5
B. NA	9	-150	9	0	* AG	680	6.5	.0	18.0
C. ND	9	0	9	150	* AG	853	4.1	.0	13.5
D. NE	9	150	9	450	* AG	853	3.5	.0	19.5
E. SF	-9	450	-9	150	* AG	1191	3.5	.0	19.5
F. SA	-9	150	-9	0	* AG	990	6.5	.0	18.0
G. SD	-9	0	-9	-150	* AG	1221	4.2	.0	13.5
H. SE	-9	-150	-9	-450	* AG	1221	3.5	.0	19.5
I. WF	450	9	150	9	* AG	1226	3.5	.0	19.5
J. WA	150	9	0	9	* AG	973	5.7	.0	18.0
K. WD	0	9	-150	9	* AG	1213	4.0	.0	13.5
L. WE	-150	9	-450	9	* AG	1213	3.5	.0	19.5
M. EF	-450	-9	-150	-9	* AG	1428	3.5	.0	19.5
N. EA	-150	-9	0	-9	* AG	1254	5.9	.0	18.0
O. ED	0	-9	150	-9	* AG	1447	4.1	.0	13.5
P. EE	150	-9	450	-9	* AG	1447	3.5	.0	19.5
Q. NL	0	0	5	-150	* AG	209	6.5	.0	9.9
R. SL	0	0	-5	150	* AG	201	6.5	.0	9.9
S. WL	0	0	150	5	* AG	253	5.9	.0	9.9
T. EL	0	0	-150	-5	* AG	174	5.7	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	* Y	* Z
1. NE3	19	19	1.8
2. SE3	19	-19	1.8
3. SW3	-19	-19	1.8
4. NW3	-19	19	1.8
5. NE7	23	23	1.8
6. SE7	23	-23	1.8
7. SW7	-23	-23	1.8
8. NW7	-23	23	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	* D	* E	* F	* G	* H
1. NE3	261.	1.7	.0	.0	.2	.0	.0	.2	.0	.0
2. SE3	276.	1.8	.0	.3	.0	.0	.0	.0	.2	.0
3. SW3	82.	1.9	.0	.2	.0	.0	.0	.0	.3	.0
4. NW3	171.	1.8	.1	.1	.0	.0	.0	.3	.6	.0
5. NE7	188.	1.3	.0	.4	.0	.0	.0	.0	.0	.2
6. SE7	277.	1.5	.0	.2	.0	.0	.0	.0	.2	.0
7. SW7	8.	1.5	.0	.0	.0	.1	.0	.6	.0	.0
8. NW7	98.	1.4	.0	.0	.1	.0	.0	.3	.0	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. NE3	.0	.2	.5	.0	.2	.2	.0	.0	.0	.0	.0	.0
2. SE3	.0	.0	.0	.2	.1	.9	.0	.0	.0	.0	.0	.0
3. SW3	.2	.1	.0	.0	.0	.3	.7	.0	.0	.0	.0	.0
4. NW3	.0	.0	.3	.0	.0	.2	.0	.0	.0	.0	.0	.0
5. NE7	.0	.3	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
6. SE7	.0	.0	.0	.2	.1	.7	.0	.0	.0	.0	.0	.0
7. SW7	.0	.0	.1	.0	.0	.4	.0	.0	.0	.0	.0	.0
8. NW7	.0	.5	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
 JUNE 1989 VERSION  
 PAGE 1

JOB: MAIN STREET AND CARSON STREET PM WP  
 RUN: Hour 1 (WORST CASE ANGLE)  
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S                      Z0= 100. CM                      ALT= 0. (M)  
 BRG= WORST CASE              VD= .0 CM/S  
 CLAS= 7 (G)                    VS= .0 CM/S  
 MIXH= 1000. M                AMB= .0 PPM  
 SIGTH= 5. DEGREES            TEMP= 15.6 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	* 9	-450	9	-150	* AG	1096	3.5	.0	19.5
B. NA	* 9	-150	9	0	* AG	887	6.5	.0	18.0
C. ND	* 9	0	9	150	* AG	1263	4.2	.0	13.5
D. NE	* 9	150	9	450	* AG	1263	3.5	.0	19.5
E. SF	* -9	450	-9	150	* AG	1211	3.5	.0	19.5
F. SA	* -9	150	-9	0	* AG	1010	6.5	.0	18.0
G. SD	* -9	0	-9	-150	* AG	1340	4.2	.0	13.5
H. SE	* -9	-150	-9	-450	* AG	1340	3.5	.0	19.5
I. WF	* 450	9	150	9	* AG	1440	3.5	.0	19.5
J. WA	* 150	9	0	9	* AG	1081	5.9	.0	18.0
K. WD	* 0	9	-150	9	* AG	1328	4.0	.0	13.5
L. WE	* -150	9	-450	9	* AG	1328	3.5	.0	19.5
M. EF	* -450	-9	-150	-9	* AG	1631	3.5	.0	19.5
N. EA	* -150	-9	0	-9	* AG	1254	5.9	.0	18.0
O. ED	* 0	-9	150	-9	* AG	1447	4.1	.0	13.5
P. EE	* 150	-9	450	-9	* AG	1447	3.5	.0	19.5
Q. NL	* 0	0	5	-150	* AG	209	6.5	.0	9.9
R. SL	* 0	0	-5	150	* AG	201	6.5	.0	9.9
S. WL	* 0	0	150	5	* AG	359	6.1	.0	9.9
T. EL	* 0	0	-150	-5	* AG	377	6.1	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	* X	Y	Z
1. NE3	* 19	19	1.8
2. SE3	* 19	-19	1.8
3. SW3	* -19	-19	1.8
4. NW3	* -19	19	1.8
5. NE7	* 23	23	1.8
6. SE7	* 23	-23	1.8
7. SW7	* -23	-23	1.8
8. NW7	* -23	23	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	A	B	C	D	E	F	G	H
1. NE3	* 261.	* 2.0	* .0	.0	.3	.0	.0	.2	.0	.0
2. SE3	* 351.	* 1.9	* .0	.2	.6	.0	.1	.2	.0	.0
3. SW3	* 81.	* 2.0	* .0	.2	.0	.0	.0	.0	.3	.0
4. NW3	* 171.	* 1.9	* .1	.2	.0	.0	.0	.3	.6	.0
5. NE7	* 188.	* 1.5	* .0	.6	.0	.0	.0	.0	.0	.2
6. SE7	* 278.	* 1.7	* .0	.3	.0	.0	.0	.0	.2	.0
7. SW7	* 8.	* 1.6	* .0	.0	.0	.2	.0	.6	.0	.0
8. NW7	* 98.	* 1.6	* .0	.0	.2	.0	.0	.3	.0	.0

IV. MODEL RESULTS (WORST CASE WIND ANGLE ) (CONT.)

RECEPTOR	* I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	* .0	.2	.6	.0	.2	.2	.0	.0	.0	.0	.0	.1
2. SE3	* .0	.2	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0
3. SW3	* .2	.2	.0	.0	.0	.3	.7	.0	.0	.0	.1	.0
4. NW3	* .0	.0	.3	.0	.0	.2	.0	.0	.0	.0	.0	.0
5. NE7	* .0	.3	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
6. SE7	* .0	.0	.0	.2	.0	.7	.0	.0	.0	.0	.0	.1
7. SW7	* .0	.0	.2	.0	.0	.4	.0	.0	.0	.0	.0	.0
8. NW7	* .0	.6	.0	.0	.0	.0	.0	.2	.0	.0	.1	.0

Title : Los Angeles County Avg 2010 Winter Default Title  
 Version : Emfac2002 V2.2 Apr 23 2003  
 Run Date : 12/17/04 08:16:01  
 Scen Year: 2010 -- Model Years: 1965 to 2010  
 Season : Winter  
 Area : Los Angeles County

\*\*\*\*\*  
 Year:2010 -- Model Years 1965 to 2010 Inclusive -- Winter  
 Emfac2002 Emission Factors: V2.2 Apr 23 2003

County Average

Table 1: Running Exhaust Emissions (grams/mile)

Pollutant Name: Carbon Monoxide Temperature: 60F Relative Humidity: 50%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
3	6.120	10.488	10.547	18.462	45.705	34.955	8.557
4	5.904	10.042	10.133	18.462	45.705	34.955	8.274
5	5.702	9.629	9.750	18.462	45.705	34.955	8.012
6	5.513	9.245	9.306	16.990	41.846	33.538	7.664
7	5.336	8.889	8.897	15.668	38.399	32.241	7.343
8	5.169	8.558	8.520	14.478	35.316	31.054	7.046
9	5.013	8.249	8.172	13.407	32.554	29.969	6.772
10	4.865	7.961	7.850	12.441	30.076	28.976	6.518
11	4.726	7.693	7.552	11.568	27.849	28.070	6.282
12	4.595	7.441	7.275	10.779	25.846	27.244	6.063
13	4.471	7.206	7.018	10.064	24.040	26.492	5.858
14	4.354	6.986	6.778	9.416	22.411	25.809	5.668
15	4.243	6.779	6.555	8.829	20.940	25.191	5.490
16	4.138	6.585	6.347	8.295	19.609	24.633	5.323
17	4.038	6.402	6.153	7.809	18.405	24.133	5.167
18	3.943	6.230	5.972	7.367	17.313	23.687	5.021
19	3.852	6.068	5.802	6.964	16.322	23.293	4.884
20	3.766	5.916	5.643	6.597	15.423	22.947	4.756
21	3.685	5.772	5.494	6.263	14.606	22.649	4.635
22	3.607	5.637	5.354	5.957	13.864	22.397	4.521
23	3.532	5.509	5.223	5.678	13.189	22.189	4.414
24	3.462	5.389	5.101	5.423	12.575	22.023	4.313
25	3.394	5.275	4.985	5.191	12.016	21.900	4.219
26	3.330	5.167	4.877	4.978	11.508	21.819	4.129
27	3.268	5.066	4.776	4.784	11.046	21.779	4.045
28	3.210	4.970	4.681	4.607	10.627	21.780	3.966
29	3.154	4.880	4.592	4.446	10.246	21.822	3.892
30	3.100	4.796	4.508	4.300	9.902	21.907	3.822
31	3.049	4.716	4.430	4.166	9.590	22.034	3.756
32	3.001	4.641	4.357	4.045	9.309	22.205	3.694
33	2.954	4.570	4.289	3.936	9.056	22.420	3.636
34	2.910	4.505	4.226	3.838	8.830	22.682	3.582
35	2.869	4.443	4.167	3.750	8.629	22.993	3.531
36	2.829	4.386	4.113	3.671	8.451	23.353	3.484
37	2.791	4.333	4.064	3.602	8.296	23.767	3.440
38	2.756	4.284	4.018	3.541	8.162	24.237	3.400
39	2.722	4.238	3.977	3.488	8.047	24.765	3.362
40	2.690	4.197	3.940	3.443	7.953	25.357	3.328

# Appendix F-4

- Freeway Health Risk Assessment

Carson Marketplace  
Vehicle Fleet Mix Computation

AADT Total	Total Trucks	Truck %/100	2 axle vol	3 axle vol	4 axle vol	5 axle vol	2 axle %	3 axle %	4 axle %	5 axle %
273000	16926	0.062	10646	1185	575	4519	0.629	0.070	0.034	0.267

Fleet Mix Computation w/ Truck Volume Adjustment

Non-HDT	0.938
2-axle	0.039
3-axle	0.004
4-axle	0.002
5-axle	0.017

1.000

Fleet Mix Computation w/ Time of Day Adjustment

Non-HDT	1.51	1.416	0.947
2-axle	1.40	0.055	0.036
3-axle	1.28	0.006	0.004
4-axle	1.09	0.002	0.002
5-axle	1.03	0.017	0.011

1.496      1.000

Corrected Fleet Mix (EMFAC7F Vehicle Classes)

LDA	0.757
LDT	0.133
MDT	0.047
HDGT	0.019
HDDT	0.034
MCY	0.009

1.000

Source: UCD, Institute of Transportation Studies, *Transportation Project-Level Carbon Monoxide Protocol*. UCD-ITS-RR-96-1

Carson Marketplace  
Vehicle Fleet Mix Computation  
Emfac2002 Worksheet

**Los Angeles County Avg 2010 Annual Default**

Model Version : Emfac 2002 V2.2  
Run Date : 06/22/05 12:50:56  
Scenario Year : 2010 -- Model Years: 1965 to 2010  
Location : Los Angeles County Average Data  
Season : Annual  
Temperature : All  
Relative Humidity : All

Table A: Estimated Travel Fractions

	LDA NCAT	LDA CAT	LDA DSL	LDA ALL	LDT1 NCAT	LDT1 CAT	LDT1 DSL	LDT1 ALL	LDT2 NCAT	LDT2 CAT	LDT2 DSL	LDT2 ALL
%VEH	0.006	0.605	0.002	0.613	0.002	0.106	0.001	0.109	0.002	0.157	0.001	0.160
	MDV NCAT	MDV CAT	MDV DSL	MDV ALL	LHD1 NCAT	LHD1 CAT	LHD1 DSL	LHD1 ALL	LHD2 NCAT	LHD2 CAT	LHD2 DSL	LHD2 ALL
%VEH	0.001	0.063	0.001	0.065	0.000	0.007	0.001	0.008	0.000	0.002	0.001	0.003
	MHD NCAT	MHD CAT	MHD DSL	MHD ALL	HHD NCAT	HHD CAT	HHD DSL	HHD ALL	LHV NCAT	LHV CAT	LHV DSL	LHV ALL
%VEH	0.000	0.002	0.007	0.010	0.000	0.001	0.007	0.008	0.000	0.000	0.000	0.000
	UBUS NCAT	UBUS CAT	UBUS DSL	UBUS ALL	MCY NCAT	MCY CAT	MCY DSL	MCY ALL	SBUS NCAT	SBUS CAT	SBUS DSL	SBUS ALL
%VEH	0.000	0.001	0.001	0.001	0.009	0.004	0.000	0.013	0.000	0.000	0.001	0.001
	MH NCAT	MH CAT	MH DSL	MH ALL	ALL NCAT	ALL CAT	ALL DSL	ALL ALL				
%VEH	0.000	0.008	0.001	0.009	0.020	0.956	0.025	1.000				

Table B: Travel Fractions (Emfac2002 Format/Emfac7F Vehicle Classifications)

Class	NCAT	CAT	DSL
LDA	0.006	0.605	0.002
LDT	0.004	0.263	0.002
MDT	0.001	0.072	0.004
HDTG	0.001	0.011	0
HDTD	0	0	0.016
MCY	0.009	0.004	0

Table C: Travel Fractions (Emfac7F Format)

Class	NCAT	CAT	DSL
LDA	0.98	98.77	0.25
LDT	1.33	97.87	0.81
MDT	1.12	93.67	5.21
HDTG	6.43	93.57	0.00
HDTD	0.00	0.00	100.00
MCY	68.33	31.67	0.00

Carson Marketplace  
Vehicle Fleet Mix Computation

Emfac2002 Worksheet, continued

Table D: Vehicle Fleet Mix

Class	Fraction
LDA	0.7575
LDT	0.1326
MDT	0.0473
HDTG	0.0193
HDTD	0.0338
MCY	0.0095

Table E: Population Profile (Emfac2002 Format)

AADT 273000

Class	All	Fraction	Gas	Fraction	Diesel	Fraction
LDA	206793.4	1.000	206278.3	0.998	515.1	0.002
LDT1	14676.3	0.406	14555.2	0.992	121.1	0.008
LDT2	21512.5	0.594	21341.8	0.992	170.7	0.008
MDV	10969.9	0.849	10717.9	0.977	252.0	0.023
LHD1	1422.6	0.110	1202.1	0.845	220.6	0.155
LHD2	532.1	0.041	331.2	0.622	200.9	0.378
MHD	5056.5	0.349	1280.5	0.253	3776.0	0.747
HHD	4219.6	0.291	380.5	0.090	3839.1	0.910
LH	0.0	0.000	0.0	0.000	0.0	0.000
URB	0.0	0.000	0.0	0.000	0.0	0.000
MCY	2584.9	1.000	2584.9	1.000	0.0	0.000
SB	483.6	0.033	56.3	0.116	427.3	0.884
MH	4748.5	0.327	4464.2	0.940	284.3	0.060
Total	273000.0		263192.9		9807.1	



Carson Marketplace  
Vehicle Fleet Mix Computation

TOG Emissions

Acceleration (45 mph)

$$Emfac (gr/mi) = (emfac \text{ at average link speed} \times 16/60) \times (0.027) \times (exp (.098 \times \text{acceleration speed product})) \times (60 \text{ min/hr}) / (\text{average link speed})$$

emfac at link speed	0.126
speed (mph)	45.0
acceleration time (sec)	18.0
acceleration rate (mph/sec)	2.50

Emfac (gr/mi)	<input type="text" value="0.300"/>
---------------	------------------------------------

Deceleration

$$Emfac (gr/mi) = (emfac \text{ at idle speed} \times 1.5)$$

emfac at idle speed (gr/mi)	0.727
-----------------------------	-------

Emfac (gr/mi)	<input type="text" value="1.091"/>
---------------	------------------------------------

Carson Marketplace  
Vehicle Fleet Mix Computation

Diesel Particulate Emissions

Acceleration (45 mph)

$$Emfac (gr/mi) = (emfac \text{ at average link speed} \times 16/60) \times (0.027) \times (exp (.098 \times \text{acceleration speed product})) \times (60 \text{ min/hr}) / (\text{average link speed})$$

emfac at link speed	0.16
speed (mph)	45.0
acceleration time (sec)	18.0
acceleration rate (mph/sec)	2.50

Emfac (gr/mi)	<input type="text" value="0.381"/>
---------------	------------------------------------

Deceleration

$$Emfac (gr/mi) = (emfac \text{ at idle speed} * 1.5)$$

emfac at idle speed (gr/mi)	0.599
-----------------------------	-------

Emfac (gr/mi)	<input type="text" value="0.899"/>
---------------	------------------------------------

Carson Marketplace  
Vehicle Fleet Mix Computation

Roadway Link / At Grade

	Freeway	Ramp
Width of Traveled Way (m)	42.00	7.00
Average Wind Speed (m/s)	1.41	1.41

Initial Vertical Dispersion Parameter (Sigma Z)

$$SZ = (1.8 + 0.11(TR)) \times (60/30)^{0.2}$$

$$TR = W2/U$$

Where:

$$W2 = \text{traveled way half width (m)}$$

$$U = \text{average wind speed (m/s)}$$

$$SZ = \boxed{3.95} \quad \boxed{2.38}$$

Carson Marketplace  
Vehicle Fleet Mix Computation

FLEET MIX COMPUTATION / GASOLINE (TOG)  
Interstate Highway 405

U.S. EPA Mobile Fleet Mix Categories

LDGV	Light Duty Auto/Gas
LDDV	Light Duty Auto/Diesel
LDGT1	Light Duty Truck/Gas (<6500 lbs)
LDGT2	Light Duty Truck/Gas (>6500 lbs)
LDDT	Light Duty Truck/Diesel (<8500 lbs)
HDGV	Heavy Duty Truck/Gas (>8500 lbs)
HDDV	Heavy Duty Truck/Diesel (>8500 lbs)
MC	Motorcycle

California Mobile Fleet Mix Categories

LDA/LDT (Gas)
LDA/LDT (Diesel)
(average NCAT/CAT percentages into LDA/LDT categories)
MDT
(use LDT Diesel percentage as surrogate for category)
HDG
HDD
MCY

Project Fleet Mix (Emfac7F format)	Travel Fractions/%Vehicle	
	NCAT	CAT
LDA	78.7	0.99
LDT	14.4	1.34
MDT	5.2	1.18
HDTG	1.5	6.43
MCY	0.2	68.33

Adjusted Fleet Mix	Percent/100
LDA/LDT - CAT	0.921
LDA/LDT - NCAT	0.010
MDT - CAT	0.051
MDT - NCAT	0.001
HDG - CAT	0.014
HDG - NCAT	0.001
MCY - CAT	0.001
MCY - NCAT	0.001

TOXIC EMISSIONS

Compound: Benzene

Vehicle Fleet	TOG/Toxic Emission Fractions	Composite Emission Fractions
	Exhaust	Exhaust
LDA/LDT - CAT	0.04220	0.03888
LDA/LDT - NCAT	0.02740	0.00027
MDT - CAT	0.04220	0.00217
MDT - NCAT	0.02740	0.00002
HDG -CAT	0.04220	0.00059
HDG - NCAT	0.02740	0.00003
MCY - CAT	0.04220	0.00003
MCY - NCAT	0.02740	0.00004
	Total	0.04201

Carson Marketplace  
Vehicle Fleet Mix Computation

Compound: Formaldehyde

Vehicle Fleet	TOG/Toxic Emission Fractions	Composite Emission Fractions
	Exhaust	Exhaust
LDA/LDT - CAT	0.01300	0.01198
LDA/LDT - NCAT	0.03740	0.00036
MDT - CAT	0.01300	0.00067
MDT - NCAT	0.03740	0.00002
HDG -CAT	0.01500	0.00021
HDG - NCAT	0.04310	0.00004
MCY - CAT	0.01300	0.00001
MCY - NCAT	0.03740	0.00005
		Total 0.01334

Compound: 1,3-Butadiene

Vehicle Fleet	TOG/Toxic Emission Fractions	Composite Emission Fractions
	Exhaust	Exhaust
LDA/LDT - CAT	0.00560	0.00516
LDA/LDT - NCAT	0.01150	0.00011
MDT - CAT	0.00560	0.00029
MDT - NCAT	0.01150	0.00001
HDG -CAT	0.00560	0.00008
HDG - NCAT	0.01150	0.00001
MCY - CAT	0.00560	0.00000
MCY - NCAT	0.01150	0.00002
		Total 0.00567

Compound: Acetaldehyde

Vehicle Fleet	TOG/Toxic Emission Fractions	Composite Emission Fractions
	Exhaust	Exhaust
LDA/LDT - CAT	0.00500	0.00461
LDA/LDT - NCAT	0.00820	0.00008
MDT - CAT	0.00500	0.00026
MDT - NCAT	0.00820	0.00001
HDG -CAT	0.00500	0.00007
HDG - NCAT	0.00830	0.00001
MCY - CAT	0.00500	0.00000
MCY - NCAT	0.00820	0.00001
		Total 0.00504

Note: Fleet mix normalized for the NCAT and CAT travel fractions.

Carson Marketplace  
Vehicle Fleet Mix Computation

TOG Emission Rate - Exhaust (Deceleration) 0.727 grams/mile Total-gr/mi

Benzene	0.030544
Formaldehyde	0.009699
1,3-Butadiene	0.004125
Acetaldehyde	0.003664

TOXIC EMISSIONS - Mass Emission Rate Total

Exhaust / Deceleration (grams/mile) 0.048033

Normalized Weight Fraction / Speciation

Benzene	0.636
Formaldehyde	0.202
1,3-Butadiene	0.086
Acetaldehyde	0.076

TOG Emission Rate - Exhaust (Acceleration) 0.126 grams/mile Total-gr/mi

Benzene	0.005294
Formaldehyde	0.001681
1,3-Butadiene	0.000715
Acetaldehyde	0.000635

TOXIC EMISSIONS - Mass Emission Rate Total

Exhaust / Acceleration (grams/mile) 0.008325

Normalized Weight Fraction / Speciation

Benzene	0.636
Formaldehyde	0.202
1,3-Butadiene	0.086
Acetaldehyde	0.076

TOG Emission Rate - Exhaust (Average Route Speed 55 MPH) 0.130 grams/mile Total-gr/mi

Benzene	0.005462
Formaldehyde	0.001734
1,3-Butadiene	0.000738
Acetaldehyde	0.000655

TOXIC EMISSIONS - Mass Emission Rate Total

Exhaust / Average Route Speed 55 MPH (grams/mile) 0.008589

Normalized Weight Fraction / Speciation

Benzene	0.636
Formaldehyde	0.202
1,3-Butadiene	0.086
Acetaldehyde	0.076

Carson Marketplace  
Vehicle Fleet Mix Computation

**Interstate 405, Main Link (Sources 31)**

**TOG Emissions**

Number of Sources 31  
Link Length (meters) 2180  
Volume/Baseline (VPH) 10966

Toxic Mass Emission Rate (gr/mi) 0.008589

$$Emission\ Rate\ (gr/sec) = ((Mass\ Emission\ Rate\ x\ Volume/Baseline)/(1609.3\ m/mile) \times (3600\ sec/hr)) \times (Link\ Length)$$

Toxic Emission Rate (gr/sec) 3.54E-02  
Toxic Emission Rate (gr/sec/source) 1.14E-03

**I-405, NB Off-Ramp to NB Avalon Link (Sources 29)**

**TOG Emissions**

Number of Sources 29  
Link Length (meters) 362  
Volume/Baseline (VPH) 177.1

Toxic Mass Emission Rate (gr/mi) 0.048033

$$Emission\ Rate\ (gr/sec) = ((Mass\ Emission\ Rate\ x\ Volume/Baseline)/(1609.3\ m/mile) \times (3600\ sec/hr)) \times (Link\ Length)$$

Toxic Emission Rate (gr/sec) 5.32E-04  
Toxic Emission Rate (gr/sec/source) 1.83E-05

**I-405, SB Off-Ramp to SB Avalon Link (Sources 31)**

**TOG Emissions**

Number of Sources 31  
Link Length (meters) 390  
Volume/Baseline (VPH) 599.8

Toxic Mass Emission Rate (gr/mi) 0.048033

$$Emission\ Rate\ (gr/sec) = ((Mass\ Emission\ Rate\ x\ Volume/Baseline)/(1609.3\ m/mile) \times (3600\ sec/hr)) \times (Link\ Length)$$

Toxic Emission Rate (gr/sec) 1.94E-03  
Toxic Emission Rate (gr/sec/source) 6.26E-05

**I-405, NB On-Ramp from Avalon Link (Sources 25)**

**TOG Emissions**

Number of Sources 25  
Link Length (meters) 295  
Volume/Baseline (VPH) 575.7

Toxic Mass Emission Rate (gr/mi) 0.008325

$$Emission\ Rate\ (gr/sec) = ((Mass\ Emission\ Rate\ x\ Volume/Baseline)/(1609.3\ m/mile) \times (3600\ sec/hr)) \times (Link\ Length)$$

Toxic Emission Rate (gr/sec) 2.44E-04  
Toxic Emission Rate (gr/sec/source) 9.76E-06

**I-405, SB On-Ramp from SB Avalon Link (Sources 44)**

**TOG Emissions**

Number of Sources 44  
Link Length (meters) 450  
Volume/Baseline (VPH) 161.0

Toxic Mass Emission Rate (gr/mi) 0.008325

$$Emission\ Rate\ (gr/sec) = ((Mass\ Emission\ Rate\ x\ Volume/Baseline)/(1609.3\ m/mile) \times (3600\ sec/hr)) \times (Link\ Length)$$

Toxic Emission Rate (gr/sec) 1.04E-04  
Toxic Emission Rate (gr/sec/source) 2.37E-06

**I-405, Main Link (Sources 31)**

**Diesel Particulate Emissions**

Number of Sources 31  
Link Length (meters) 2180  
Volume/Baseline (VPH) 408.6

Toxic Mass Emission Rate (gr/mi) 0.128000

$$\text{Emission Rate (gr/sec)} = ((\text{Mass Emission Rate} \times \text{Volume/Baseline}) / (1609.3 \text{ m/mile}) \times (3600 \text{ sec/hr})) \times (\text{Link Length})$$

Toxic Emission Rate (gr/sec) 1.97E-02  
Toxic Emission Rate (gr/sec/source) 6.35E-04

**I-405, NB Off-Ramp to NB Avalon Link (Sources 29)**

**Diesel Particulate Emissions**

Number of Sources 29  
Link Length (meters) 362  
Volume/Baseline (VPH) 6.2

Toxic Mass Emission Rate (gr/mi) 0.898500

$$\text{Emission Rate (gr/sec)} = ((\text{Mass Emission Rate} \times \text{Volume/Baseline}) / (1609.3 \text{ m/mile}) \times (3600 \text{ sec/hr})) \times (\text{Link Length})$$

Toxic Emission Rate (gr/sec) 3.48E-04  
Toxic Emission Rate (gr/sec/source) 1.20E-05

**I-405, SB Off-Ramp to SB Avalon Link (Sources 31)**

**Diesel Particulate Emissions**

Number of Sources 31  
Link Length (meters) 390  
Volume/Baseline (VPH) 21.0

Toxic Mass Emission Rate (gr/mi) 0.898500

$$\text{Emission Rate (gr/sec)} = ((\text{Mass Emission Rate} \times \text{Volume/Baseline}) / (1609.3 \text{ m/mile}) \times (3600 \text{ sec/hr})) \times (\text{Link Length})$$

Toxic Emission Rate (gr/sec) 1.27E-03  
Toxic Emission Rate (gr/sec/source) 4.10E-05

**I-405, NB On-Ramp from Avalon Link (Sources 25)**

**Diesel Particulate Emissions**

Number of Sources 25  
Link Length (meters) 295  
Volume/Baseline (VPH) 20.1

Toxic Mass Emission Rate (gr/mi) 0.380574

$$\text{Emission Rate (gr/sec)} = ((\text{Mass Emission Rate} \times \text{Volume/Baseline}) / (1609.3 \text{ m/mile}) \times (3600 \text{ sec/hr})) \times (\text{Link Length})$$

Toxic Emission Rate (gr/sec) 3.90E-04  
Toxic Emission Rate (gr/sec/source) 1.56E-05

**I-405, SB On-Ramp from Avalon Link (Sources 44)**

**Diesel Particulate Emissions**

Number of Sources 44  
Link Length (meters) 450  
Volume/Baseline (VPH) 5.6

Toxic Mass Emission Rate (gr/mi) 0.380574

$$\text{Emission Rate (gr/sec)} = ((\text{Mass Emission Rate} \times \text{Volume/Baseline}) / (1609.3 \text{ m/mile}) \times (3600 \text{ sec/hr})) \times (\text{Link Length})$$

Toxic Emission Rate (gr/sec) 1.67E-04  
Toxic Emission Rate (gr/sec/source) 3.79E-06



Carson Marketplace  
Health Risk Assessment  
Adult Risk (70 year High-end Point Estimate)  
Adult 70 Year HE

Source (a)	Mass GLC		Weight Fraction (d)	Contaminant (e)	Carcinogenic Risk			
	(ug/m3) (b)				URF (ug/m3) (f)	CPF (mg/kg/day) <sup>-1</sup> (g)	Dose (mg/kg*day) (g)	RISK (h)
Freeway Segment	1.16000		6.84E-01	Benzene	2.9E-05	1.0E-01	3.0E-04	2.99E-05
			1.75E-01	Formaldehyde	6.0E-06	2.0E-02	7.7E-05	1.53E-06
			7.40E-02	1,3-Butadiene	1.7E-04	6.0E-01	3.2E-05	1.94E-05
			6.60E-02	Acetaldehyde	2.7E-06	0.0E+00	2.9E-05	0.00E+00
	0.72000	1.00E+00	Particulates	3.0E-04	1.1E+00	2.71E-04	2.98E-04	

Total

**3.49E-04**

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	70
inhalation rate (L/kg*day)	393
average body weight (kg)	63
averaging time <sub>(cancer)</sub> (days)	25550
averaging time <sub>(noncancer)</sub> (days)	25550

Carson Marketplace  
Health Risk Assessment  
Adult Risk (30 year High-end Point Estimate)  
Adult 30 Year HE

Source (a)	Mass GLC		Weight Fraction (d)	Contaminant (e)	Carcinogenic Risk			
	(ug/m3) (b)				URF (ug/m3) (f)	CPF (mg/kg/day) <sup>-1</sup> (g)	Dose (mg/kg*day) (mg/kg*day)	RISK (h)
Freeway Segment	1.16000		6.84E-01	Benzene	2.9E-05	1.0E-01	1.3E-04	1.28E-05
			1.75E-01	Formaldehyde	6.0E-06	2.0E-02	3.3E-05	6.56E-07
			7.40E-02	1,3-Butadiene	1.7E-04	6.0E-01	1.4E-05	8.32E-06
			6.60E-02	Acetaldehyde	2.7E-06	0.0E+00	1.2E-05	0.00E+00
	0.72000		1.00E+00	Particulates	3.0E-04	1.1E+00	1.16E-04	1.28E-04

Total

**1.50E-04**

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	30
inhalation rate (L/kg*day)	393
average body weight (kg)	63
averaging time <sub>(cancer)</sub> (days)	25550
averaging time <sub>(noncancer)</sub> (days)	10950

Carson Marketplace  
Health Risk Assessment  
Adult 9 Year HE

**Adult Risk (9 year High-end Point Estimate)**

Source (a)	Mass GLC		Weight Fraction (d)	Contaminant (e)	Carcinogenic Risk			
	(ug/m3) (b)				URF (ug/m3) (f)	CPF (mg/kg/day) <sup>-1</sup> (g)	Dose (mg/kg*day) (g)	RISK (h)
Freeway Segment	1.16000		6.84E-01	Benzene	2.9E-05	1.0E-01	3.8E-05	3.84E-06
			1.75E-01	Formaldehyde	6.0E-06	2.0E-02	9.8E-06	1.97E-07
			7.40E-02	1,3-Butadiene	1.7E-04	6.0E-01	4.2E-06	2.50E-06
			6.60E-02	Acetaldehyde	2.7E-06	0.0E+00	3.7E-06	0.00E+00
	0.72000	1.00E+00	Particulates	3.0E-04	1.1E+00	3.49E-05	3.84E-05	

Total

**4.49E-05**

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	9
inhalation rate (L/kg*day)	393
average body weight (kg)	63
averaging time <sub>(cancer)</sub> (days)	25550
averaging time <sub>(noncancer)</sub> (days)	3285

Carson Marketplace  
Health Risk Assessment  
Child Risk (9 year High-end Point Estimate)  
Child 9 Year HE

Source (a)	Mass GLC		Weight Fraction (d)	Contaminant (e)	Carcinogenic Risk			
	(ug/m3) (b)				URF (ug/m3) (f)	CPF (mg/kg/day) <sup>-1</sup> (g)	Dose (mg/kg*day) (mg/kg*day)	RISK (h)
Freeway Segment	1.16000		6.84E-01	Benzene	2.9E-05	1.0E-01	5.7E-05	5.68E-06
			1.75E-01	Formaldehyde	6.0E-06	2.0E-02	1.5E-05	2.91E-07
			7.40E-02	1,3-Butadiene	1.7E-04	6.0E-01	6.1E-06	3.69E-06
			6.60E-02	Acetaldehyde	2.7E-06	0.0E+00	5.5E-06	0.00E+00
	0.72000	1.00E+00	Particulates	3.0E-04	1.1E+00	5.16E-05	5.67E-05	

Total

**6.64E-05**

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	9
inhalation rate (L/kg*day)	581
average body weight (kg)	63
averaging time <sub>(cancer)</sub> (days)	25550
averaging time <sub>(noncancer)</sub> (days)	3285

Carson Marketplace  
Health Risk Assessment  
Adult 70 Year Avg

**Adult Risk (70 year Average Point Estimate)**

Source (a)	Mass GLC		Weight Fraction (d)	Contaminant (e)	Carcinogenic Risk			
	(ug/m3) (b)				URF (ug/m3) (f)	CPF (mg/kg/day) <sup>-1</sup> (g)	Dose (mg/kg*day) (g)	RISK (h)
Freeway Segment	1.16000		6.84E-01	Benzene	2.9E-05	1.0E-01	2.1E-04	2.06E-05
			1.75E-01	Formaldehyde	6.0E-06	2.0E-02	5.3E-05	1.06E-06
			7.40E-02	1,3-Butadiene	1.7E-04	6.0E-01	2.2E-05	1.34E-05
			6.60E-02	Acetaldehyde	2.7E-06	0.0E+00	2.0E-05	0.00E+00
	0.72000	1.00E+00	Particulates	3.0E-04	1.1E+00	1.87E-04	2.06E-04	

Total

**2.41E-04**

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	70
inhalation rate (L/kg*day)	271
average body weight (kg)	63
averaging time <sub>(cancer)</sub> (days)	25550
averaging time <sub>(noncancer)</sub> (days)	25550

Carson Marketplace  
Health Risk Assessment  
Adult 30 Year Avg

**Adult Risk (30 year Average Point Estimate)**

Source (a)	Mass GLC		Weight Fraction (d)	Contaminant (e)	Carcinogenic Risk			
	(ug/m3) (b)				URF (ug/m3) (f)	CPF (mg/kg/day) <sup>-1</sup> (g)	Dose (mg/kg*day) (g)	RISK (h)
Freeway Segment	1.16000		6.84E-01	Benzene	2.9E-05	1.0E-01	8.8E-05	8.84E-06
			1.75E-01	Formaldehyde	6.0E-06	2.0E-02	2.3E-05	4.52E-07
			7.40E-02	1,3-Butadiene	1.7E-04	6.0E-01	9.6E-06	5.74E-06
			6.60E-02	Acetaldehyde	2.7E-06	0.0E+00	8.5E-06	0.00E+00
	0.72000		1.00E+00	Particulates	3.0E-04	1.1E+00	8.02E-05	8.82E-05

Total

**1.03E-04**

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	30
inhalation rate (L/kg*day)	271
average body weight (kg)	63
averaging time <sub>(cancer)</sub> (days)	25550
averaging time <sub>(noncancer)</sub> (days)	10950

Carson Marketplace  
Health Risk Assessment  
Adult 9 Year Avg

**Adult Risk (9 year Average Point Estimate)**

Source (a)	Mass GLC		Weight Fraction (d)	Contaminant (e)	Carcinogenic Risk			
	(ug/m3) (b)				URF (ug/m3) (f)	CPF (mg/kg/day) <sup>-1</sup> (g)	Dose (mg/kg*day) (g)	RISK (h)
Freeway Segment	1.16000		6.84E-01	Benzene	2.9E-05	1.0E-01	2.7E-05	2.65E-06
			1.75E-01	Formaldehyde	6.0E-06	2.0E-02	6.8E-06	1.36E-07
			7.40E-02	1,3-Butadiene	1.7E-04	6.0E-01	2.9E-06	1.72E-06
			6.60E-02	Acetaldehyde	2.7E-06	0.0E+00	2.6E-06	0.00E+00
	0.72000	1.00E+00	Particulates	3.0E-04	1.1E+00	2.41E-05	2.65E-05	

Total

**3.10E-05**

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	9
inhalation rate (L/kg*day)	271
average body weight (kg)	63
averaging time <sub>(cancer)</sub> (days)	25550
averaging time <sub>(noncancer)</sub> (days)	3285

Carson Marketplace  
Health Risk Assessment  
Child Risk (9 year Average Point Estimate)  
Child 9 Year Avg

Source (a)	Mass GLC		Weight Fraction (d)	Contaminant (e)	Carcinogenic Risk			
	(ug/m3) (b)				URF (ug/m3) (f)	CPF (mg/kg/day) <sup>-1</sup> (g)	Dose (mg/kg*day) (g)	RISK (h)
Freeway Segment	1.16000		6.84E-01	Benzene	2.9E-05	1.0E-01	4.4E-05	4.42E-06
			1.75E-01	Formaldehyde	6.0E-06	2.0E-02	1.1E-05	2.26E-07
			7.40E-02	1,3-Butadiene	1.7E-04	6.0E-01	4.8E-06	2.87E-06
			6.60E-02	Acetaldehyde	2.7E-06	0.0E+00	4.3E-06	0.00E+00
	0.72000	1.00E+00	Particulates	3.0E-04	1.1E+00	4.01E-05	4.41E-05	

Total

**5.17E-05**

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	9
inhalation rate (L/kg*day)	452
average body weight (kg)	63
averaging time <sub>(cancer)</sub> (days)	25550
averaging time <sub>(noncancer)</sub> (days)	3285



Carson Marketplace - Freeway Emissions  
Acute Risk Calculation

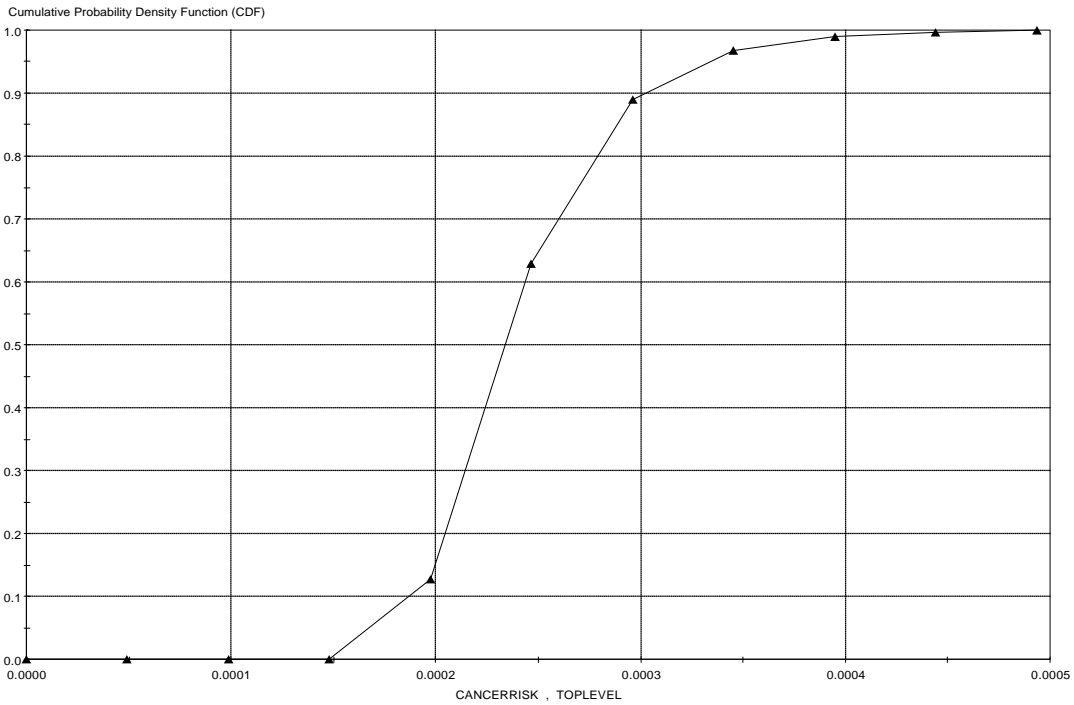
Pollutant	1-hr Max Concentration (ug/m3)	Inhalation Acute REL	Acute Risk	Inhalation Acute REL												
				Acute Risk												
				Cardiovascular	CNS	Immune System	Kidney	Alimentary System	Reproductive	Respiratory	Skin	Eye	Bone	Endocrine	Development	Hematopoietic
1,3-Butadiene	7.84E+00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetaldehyde	2.01E+00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	8.48E-01	1300	6.52E-04	-	-	6.52E-04	-	-	6.52E-04	-	-	-	-	-	6.52E-04	6.52E-04
Formaldehyde	7.56E-01	94	8.05E-03	-	-	8.05E-03	-	-	-	8.05E-03	-	8.05E-03	-	-	-	-
DieselExhPM	6.57E+00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Hazard Index</b>	<b>8.70E-03</b>			-	-	8.70E-03	-	-	6.52E-04	8.05E-03	-	8.05E-03	-	-	6.52E-04	6.52E-04

Carson Marketplace - Freeway Emissions  
Chronic Risk Calculations

Pollutant	Annual Max Concentration (ug/m3)	Inhalation Chronic REL	Oral Chronic REL	Inhalation Chronic Risk	Oral Chronic Risk	Onsite Residential												
						Inhalation Risk												
						Cardiovascular	CNS	Immune System	Kidney	Alimentary System	Reproductive	Respiratory	Skin	Eye	Bone	Endocrine	Development	Hematopoietic
1,3-Butadiene	8.58E-02	20	-	4.29E-03	-	-	-	-	-	-	4.29E-03	-	-	-	-	-	-	-
Acetaldehyde	7.66E-02	9	-	8.51E-03	-	-	-	-	-	-	-	8.51E-03	-	-	-	-	-	-
Benzene	7.93E-01	60	-	1.32E-02	-	-	1.32E-02	-	-	-	-	-	-	-	-	-	1.32E-02	1.32E-02
Formaldehyde	2.03E-01	3	-	6.77E-02	-	-	-	-	-	-	-	6.77E-02	-	6.77E-02	-	-	-	-
DieselExhPM	7.20E-01	5	-	1.44E-01	-	-	-	-	-	-	-	1.44E-01	-	-	-	-	-	-
<b>Hazard Index</b>	<b>2.20E-01</b>					-	1.32E-02	-	-	-	4.29E-03	2.20E-01	-	6.77E-02	-	-	1.32E-02	1.32E-02

# Carson Marketplace Health Risk Assessment Summary

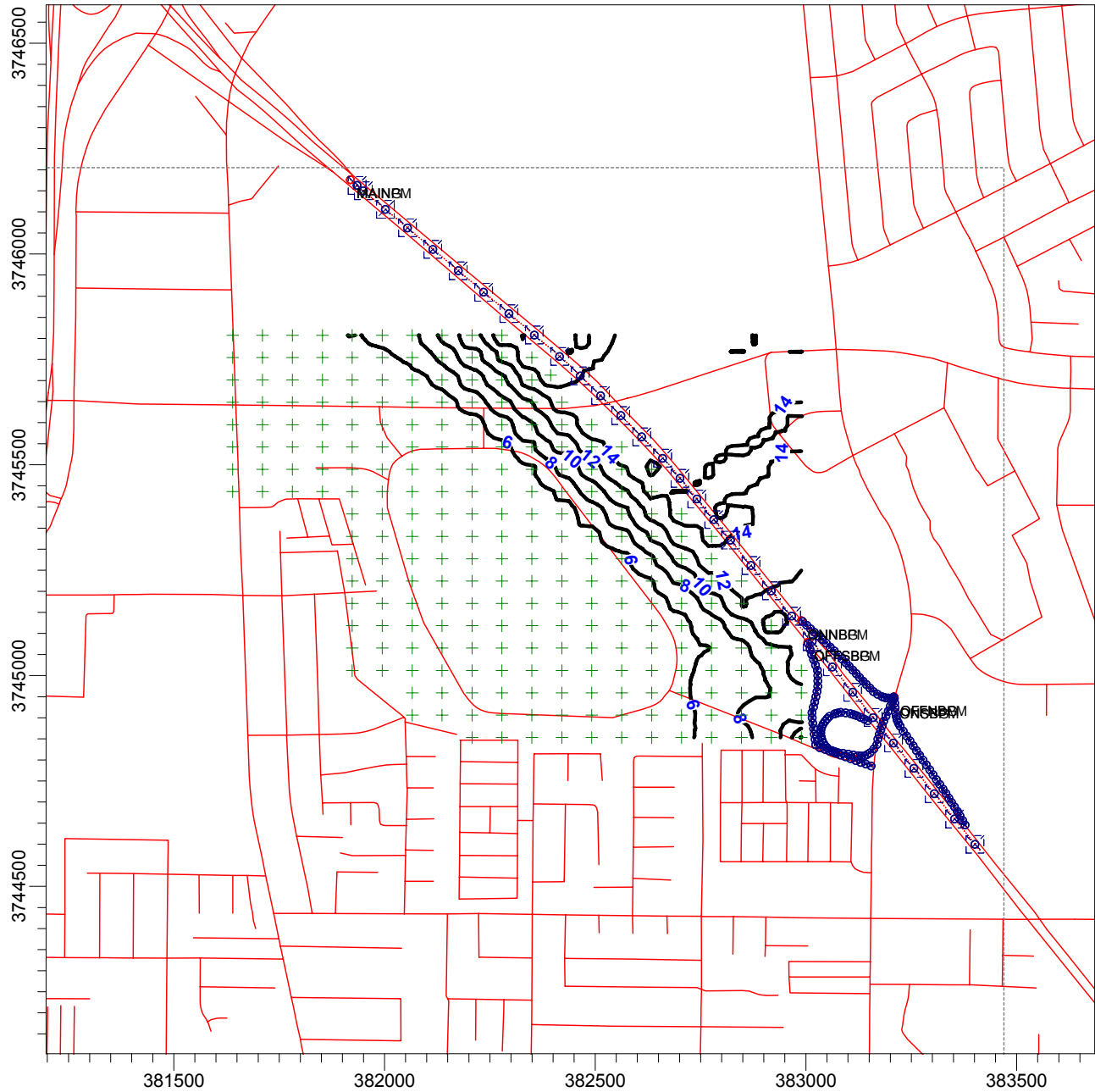
SIMULATION RESULTS  
 GLC: chemicals and/or concentrations have been edited by the user  
 70 year (adult resident)  
 Latin Hypercube Sampling (10 bins), 1000 trials in 10 bins



Note:

According to the stochastic analysis graph above, 90% probability of cancer risk being below  $3 \times 10^{-4}$

Summary	High-end	Average
Adult Risk (70 year)	3.49E-04	2.41E-04
Adult Risk (30 year)	1.50E-04	1.03E-04
Adult Risk (9 year)	4.49E-05	3.10E-05
Child Risk (9 year)	6.64E-05	5.17E-05
Acute HI	0.008698721	
Chronic HI	0.220177778	



COMMENTS:	SOURCES:10 <b>10</b>	COMPANY NAME:PCR Services Corporation <b>PCR Services Corporation</b>	
	RECEPTORS:256 <b>254</b>	MODELER:Nasrin Behmanesh, Ph.D.	
	OUTPUT TYPE:Concentration <b>CONC</b>	SCALE: 1:15,186 0  0.5 km	
	MAX: <b>18.03337 ug/m^3</b>	DATE:10/25/05 <b>10/25/2005</b>	PROJECT NO.: