

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Title: Lane Ranch

Background Information

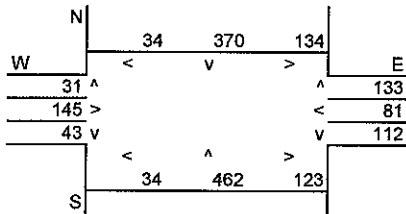
Nearest Air Monitoring Station measuring CO: 43301 Division Street
 Background 1-hour CO Concentration (ppm): 2.9
 Background 8-hour CO Concentration (ppm): 1.2
 Persistence Factor: 0.7
 Analysis Year: 2008

Roadway Data

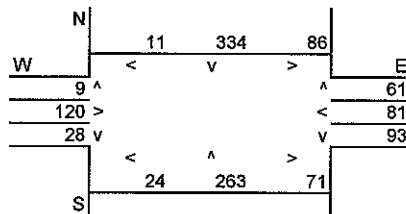
Intersection: 60th Street West/Avenue K
 Analysis Condition: Existing (2008) Traffic Volumes

Roadway Type	No. of Lanes	Average Speed		
		A.M.	P.M.	
North-South Roadway: 60th Street	At Grade	2	20	20
East-West Roadway: Avenue K	At Grade	4	20	20

A.M. Peak Hour Traffic Volumes



P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	1,164	N-S Road:	813
E-W Road:	728	E-W Road:	512

Roadway CO Contributions and Concentrations

$$\text{Emissions} = (A \times B \times C) / 100,000^1$$

Roadway	Reference CO Concentrations				Traffic Volume	Emission Factors ²	Estimated CO Concentrations			
	E.O.R.	25 Feet	50 Feet	100 Feet			E.O.R.	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour										
North-South Road	14.0	7.6	5.7	4.0	1,164	5.39	0.88	0.48	0.36	0.25
East-West Road	3.3	2.6	2.2	1.7	728	5.39	0.13	0.10	0.09	0.07
P.M. Peak Traffic Hour										
North-South Road	14.0	7.6	5.7	4.0	813	5.39	0.61	0.33	0.25	0.18
East-West Road	3.3	2.6	2.2	1.7	512	5.39	0.09	0.07	0.06	0.05

¹ Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

² Emission factors from EMFAC2002 (2003).

Total Roadway CO Concentrations

$$\text{Peak Hour Emissions} = \text{North-South Concentration} + \text{East-West Concentration} + \text{Background 1-hour Concentration}^2$$

$$\text{8-Hour Emissions} = ((\text{Highest Peak Hour Concentration} - \text{Background 1-hour Concentration}) \times \text{Persistence Factor}) + \text{Background 8-hour Concentration}^2$$

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
Roadway Edge	3.9	3.6	1.9
25 Feet from Roadway Edge	3.5	3.3	1.6
50 Feet from Roadway Edge	3.3	3.2	1.5
100 Feet from Roadway Edge	3.2	3.1	1.4

² Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Title: Lane Ranch

Background Information

Nearest Air Monitoring Station measuring CO: 43301 Division Street
 Background 1-hour CO Concentration (ppm): 2.9
 Background 8-hour CO Concentration (ppm): 1.2
 Persistence Factor: 0.7
 Analysis Year: 2008

Roadway Data

Intersection: 60th Street West/Avenue L
 Analysis Condition: Existing (2008) Traffic Volumes

Roadway Type	No. of Lanes	Average Speed		
		A.M.	P.M.	
North-South Roadway: 60th Street	At Grade	2	20	20
East-West Roadway: Avenue L	At Grade	4	20	20

A.M. Peak Hour Traffic Volumes

N	18	383	85	E
W	<	v	>	
	36 ^			78
	294 >			202
	14 v			110
	<	^	>	
S	22	284	115	

P.M. Peak Hour Traffic Volumes

N	28	253	109	E
W	<	v	>	
	75 ^			85
	81 >			182
	50 v			150
	<	^	>	
S	65	225	136	

Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	928	N-S Road:	879
E-W Road:	884	E-W Road:	743

Roadway CO Contributions and Concentrations

Emissions = (A x B x C) / 100,000¹

Roadway	Reference CO Concentrations				B Traffic Volume	C Emission Factors ²	Estimated CO Concentrations			
	E.O.R.	25 Feet	50 Feet	100 Feet			E.O.R.	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour										
North-South Road	14.0	7.6	5.7	4.0	928	5.39	0.70	0.38	0.29	0.20
East-West Road	3.3	2.6	2.2	1.7	884	5.39	0.16	0.12	0.10	0.08
P.M. Peak Traffic Hour										
North-South Road	14.0	7.6	5.7	4.0	879	5.39	0.66	0.36	0.27	0.19
East-West Road	3.3	2.6	2.2	1.7	743	5.39	0.13	0.10	0.09	0.07

¹ Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

² Emission factors from EMFAC2002 (2003).

Total Roadway CO Concentrations

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration²

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration²

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
Roadway Edge	3.8	3.7	1.8
25 Feet from Roadway Edge	3.4	3.4	1.5
50 Feet from Roadway Edge	3.3	3.3	1.5
100 Feet from Roadway Edge	3.2	3.2	1.4

² Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Title: Lane Ranch

Background Information

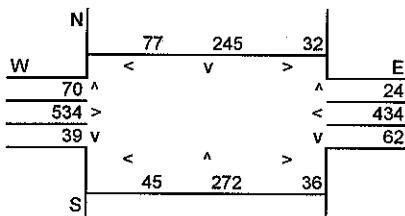
Nearest Air Monitoring Station measuring CO: 43301 Division Street
 Background 1-hour CO Concentration (ppm): 2.9
 Background 8-hour CO Concentration (ppm): 1.2
 Persistence Factor: 0.7
 Analysis Year: 2008

Roadway Data

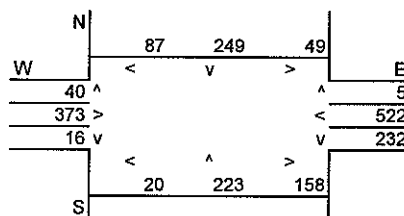
Intersection: 50th Street West/Avenue L
 Analysis Condition: Existing (2008) Traffic Volumes

	Roadway Type	No. of Lanes	Average Speed	
			A.M.	P.M.
North-South Roadway: 50th Street	At Grade	2	20	20
East-West Roadway: Avenue L	At Grade	2	20	20

A.M. Peak Hour Traffic Volumes



P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	720	N-S Road:	898
E-W Road:	1,199	E-W Road:	1,339

Roadway CO Contributions and Concentrations

$$\text{Emissions} = (A \times B \times C) / 100,000^1$$

Roadway	Reference CO Concentrations				B Traffic Volume	C Emission Factors ²	Estimated CO Concentrations			
	A ₁ E.O.R.	A ₂ 25 Feet	A ₃ 50 Feet	A ₄ 100 Feet			E.O.R.	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour										
North-South Road	3.7	2.7	2.2	1.7	720	5.39	0.14	0.10	0.09	0.07
East-West Road	14.0	7.6	5.7	4.0	1,199	5.39	0.90	0.49	0.37	0.26
P.M. Peak Traffic Hour										
North-South Road	3.7	2.7	2.2	1.7	898	5.39	0.18	0.13	0.11	0.08
East-West Road	14.0	7.6	5.7	4.0	1,339	5.39	1.01	0.55	0.41	0.29

¹ Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

² Emission factors from EMFAC2002 (2003).

Total Roadway CO Concentrations

$$\text{Peak Hour Emissions} = \text{North-South Concentration} + \text{East-West Concentration} + \text{Background 1-hour Concentration}^2$$

$$\text{8-Hour Emissions} = ((\text{Highest Peak Hour Concentration} - \text{Background 1-hour Concentration}) \times \text{Persistence Factor}) + \text{Background 8-hour Concentration}^2$$

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
Roadway Edge	3.9	4.1	2.0
25 Feet from Roadway Edge	3.5	3.6	1.7
50 Feet from Roadway Edge	3.4	3.4	1.5
100 Feet from Roadway Edge	3.2	3.3	1.4

² Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

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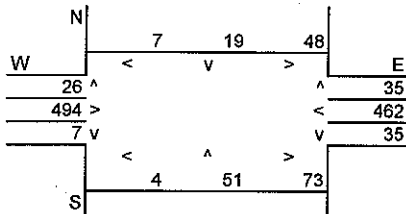
Nearest Air Monitoring Station measuring CO: 43301 Division Street
 Background 1-hour CO Concentration (ppm): 2.9
 Background 8-hour CO Concentration (ppm): 1.2
 Persistence Factor: 0.7
 Analysis Year: 2008

Roadway Data

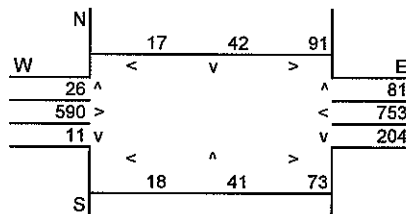
Intersection: 45th Street West/Avenue L
 Analysis Condition: Existing (2008) Traffic Volumes

Roadway Type	No. of Lanes	Average Speed		
		A.M.	P.M.	
North-South Roadway: 45th Street	At Grade	2	20	20
East-West Roadway: Avenue L	At Grade	2	20	20

A.M. Peak Hour Traffic Volumes



P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	189	N-S Road:	389
E-W Road:	1,147	E-W Road:	1,792

Roadway CO Contributions and Concentrations

$$\text{Emissions} = (A \times B \times C) / 100,000^1$$

Roadway	Reference CO Concentrations				B Traffic Volume	C Emission Factors ²	Estimated CO Concentrations			
	A ₁ E.O.R.	A ₂ 25 Feet	A ₃ 50 Feet	A ₄ 100 Feet			E.O.R.	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour										
North-South Road	3.7	2.7	2.2	1.7	189	5.39	0.04	0.03	0.02	0.02
East-West Road	14.0	7.6	5.7	4.0	1,147	5.39	0.87	0.47	0.35	0.25
P.M. Peak Traffic Hour										
North-South Road	3.7	2.7	2.2	1.7	389	5.39	0.08	0.06	0.05	0.04
East-West Road	14.0	7.6	5.7	4.0	1,792	5.39	1.35	0.73	0.55	0.39

¹ Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

² Emission factors from EMFAC2002 (2003).

Total Roadway CO Concentrations

$$\text{Peak Hour Emissions} = \text{North-South Concentration} + \text{East-West Concentration} + \text{Background 1-hour Concentration}^2$$

$$\text{8-Hour Emissions} = ((\text{Highest Peak Hour Concentration} - \text{Background 1-hour Concentration}) \times \text{Persistence Factor}) + \text{Background 8-hour Concentration}^2$$

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
Roadway Edge	3.8	4.3	2.2
25 Feet from Roadway Edge	3.4	3.7	1.7
50 Feet from Roadway Edge	3.3	3.5	1.6
100 Feet from Roadway Edge	3.2	3.3	1.5

² Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

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Background Information

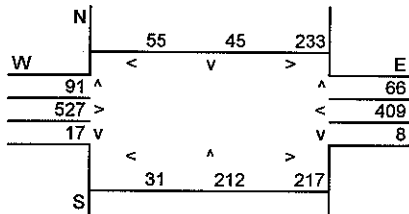
Nearest Air Monitoring Station measuring CO: 43301 Division Street
 Background 1-hour CO Concentration (ppm): 2.9
 Background 8-hour CO Concentration (ppm): 1.2
 Persistence Factor: 0.7
 Analysis Year: 2008

Roadway Data

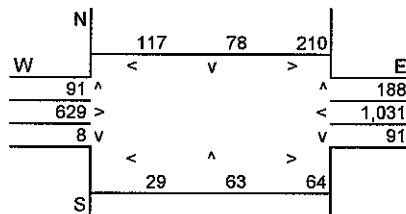
Intersection: 40th Street West/Avenue L
 Analysis Condition: Existing (2008) Traffic Volumes

Roadway Type	No. of Lanes	Average Speed		
		A.M.	P.M.	
North-South Roadway: 40th Street	At Grade	2	20	20
East-West Roadway: Avenue L	At Grade	2	20	20

A.M. Peak Hour Traffic Volumes



P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	702	N-S Road:	747
E-W Road:	1,460	E-W Road:	2,213

Roadway CO Contributions and Concentrations

$$\text{Emissions} = (A \times B \times C) / 100,000^1$$

Roadway	Reference CO Concentrations				B Traffic Volume	C Emission Factors ²	Estimated CO Concentrations			
	E.O.R.	25 Feet	50 Feet	100 Feet			E.O.R.	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour										
North-South Road	3.7	2.7	2.2	1.7	702	5.39	0.14	0.10	0.08	0.06
East-West Road	14.0	7.6	5.7	4.0	1,460	5.39	1.10	0.60	0.45	0.31
P.M. Peak Traffic Hour										
North-South Road	3.7	2.7	2.2	1.7	747	5.39	0.15	0.11	0.09	0.07
East-West Road	14.0	7.6	5.7	4.0	2,213	5.39	1.67	0.91	0.68	0.48

¹ Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

² Emission factors from EMFAC2002 (2003).

Total Roadway CO Concentrations

$$\text{Peak Hour Emissions} = \text{North-South Concentration} + \text{East-West Concentration} + \text{Background 1-hour Concentration}^2$$

$$\text{8-Hour Emissions} = ((\text{Highest Peak Hour Concentration} - \text{Background 1-hour Concentration}) \times \text{Persistence Factor}) + \text{Background 8-hour Concentration}^2$$

Roadway Edge	A.M.	P.M.	8-Hour
	Peak Hour	Peak Hour	
Roadway Edge	4.1	4.7	2.5
25 Feet from Roadway Edge	3.6	3.9	1.9
50 Feet from Roadway Edge	3.4	3.7	1.7
100 Feet from Roadway Edge	3.3	3.4	1.6

² Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

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Background Information

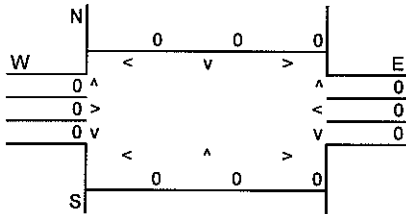
Nearest Air Monitoring Station measuring CO: 43301 Division Street
 Background 1-hour CO Concentration (ppm): 2.9
 Background 8-hour CO Concentration (ppm): 1.2
 Persistence Factor: 0.7
 Analysis Year: 2008

Roadway Data

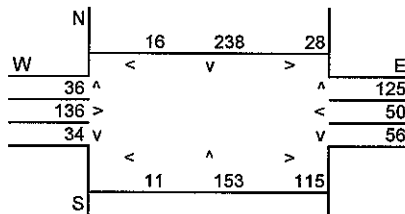
Intersection: 60th Street West/Avenue K
 Analysis Condition: Existing (2008) - Saturday - Traffic Volumes

	Roadway Type	No. of Lanes	Average Speed	
			A.M.	P.M.
North-South Roadway: 60th Street	At Grade	2	20	20
East-West Roadway: Avenue K	At Grade	4	20	20

A.M. Peak Hour Traffic Volumes



P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	0	N-S Road:	607
E-W Road:	0	E-W Road:	510

Roadway CO Contributions and Concentrations

$$\text{Emissions} = (A \times B \times C) / 100,000^1$$

Roadway	Reference CO Concentrations				B Traffic Volume	C Emission Factors ²	Estimated CO Concentrations			
	E.O.R.	25 Feet	50 Feet	100 Feet			E.O.R.	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour										
North-South Road	14.0	7.6	5.7	4.0	0	5.39	0.00	0.00	0.00	0.00
East-West Road	3.3	2.6	2.2	1.7	0	5.39	0.00	0.00	0.00	0.00
P.M. Peak Traffic Hour										
North-South Road	14.0	7.6	5.7	4.0	607	5.39	0.46	0.25	0.19	0.13
East-West Road	3.3	2.6	2.2	1.7	510	5.39	0.09	0.07	0.06	0.05

¹ Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

² Emission factors from EMFAC2002 (2003).

Total Roadway CO Concentrations

$$\text{Peak Hour Emissions} = \text{North-South Concentration} + \text{East-West Concentration} + \text{Background 1-hour Concentration}^2$$

$$\text{8-Hour Emissions} = ((\text{Highest Peak Hour Concentration} - \text{Background 1-hour Concentration}) \times \text{Persistence Factor}) + \text{Background 8-hour Concentration}^2$$

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
Roadway Edge	2.9	3.4	1.6
25 Feet from Roadway Edge	2.9	3.2	1.4
50 Feet from Roadway Edge	2.9	3.1	1.4
100 Feet from Roadway Edge	2.9	3.1	1.3

² Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Title: Lane Ranch

Background Information

Nearest Air Monitoring Station measuring CO: 43301 Division Street
 Background 1-hour CO Concentration (ppm): 2.9
 Background 8-hour CO Concentration (ppm): 1.2
 Persistence Factor: 0.7
 Analysis Year: 2008

Roadway Data

Intersection: 60th Street West/Avenue L
 Analysis Condition: Existing (2008) - Saturday - Traffic Volumes

	Roadway Type	No. of Lanes	Average Speed	
			A.M.	P.M.
North-South Roadway: 60th Street	At Grade	2	20	20
East-West Roadway: Avenue L	At Grade	4	20	20

A.M. Peak Hour Traffic Volumes

N	0	0	0	E
W	<	v	>	0
0	^			0
0	>		<	0
0	v		v	0
S	0	0	0	0

P.M. Peak Hour Traffic Volumes

N	12	234	67	E
W	<	v	>	118
24	^			171
123	>		<	171
10	v		v	131
S	17	195	107	

Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	0	N-S Road:	694
E-W Road:	0	E-W Road:	717

Roadway CO Contributions and Concentrations

$$\text{Emissions} = (A \times B \times C) / 100,000^1$$

Roadway	Reference CO Concentrations				B Traffic Volume	C Emission Factors ²	Estimated CO Concentrations			
	E.O.R.	25 Feet	50 Feet	100 Feet			E.O.R.	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour										
North-South Road	14.0	7.6	5.7	4.0	0	5.39	0.00	0.00	0.00	0.00
East-West Road	3.3	2.6	2.2	1.7	0	5.39	0.00	0.00	0.00	0.00
P.M. Peak Traffic Hour										
North-South Road	3.7	2.7	2.2	1.7	694	5.39	0.14	0.10	0.08	0.06
East-West Road	11.9	7.0	5.4	3.8	717	5.39	0.46	0.27	0.21	0.15

¹ Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

² Emission factors from EMFAC2002 (2003).

Total Roadway CO Concentrations

$$\text{Peak Hour Emissions} = \text{North-South Concentration} + \text{East-West Concentration} + \text{Background 1-hour Concentration}^2$$

$$\text{8-Hour Emissions} = ((\text{Highest Peak Hour Concentration} - \text{Background 1-hour Concentration}) \times \text{Persistence Factor}) + \text{Background 8-hour Concentration}^2$$

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
Roadway Edge	2.9	3.5	1.6
25 Feet from Roadway Edge	2.9	3.3	1.4
50 Feet from Roadway Edge	2.9	3.2	1.4
100 Feet from Roadway Edge	2.9	3.1	1.3

² Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

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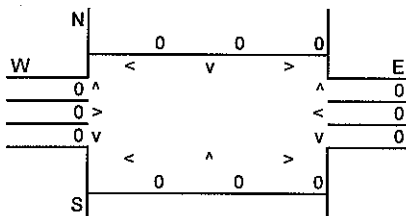
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 Background 1-hour CO Concentration (ppm): 2.9
 Background 8-hour CO Concentration (ppm): 1.2
 Persistence Factor: 0.7
 Analysis Year: 2008

Roadway Data

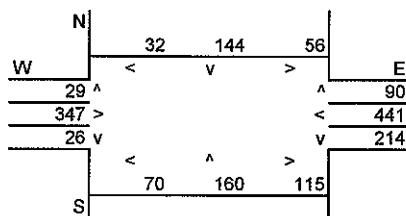
Intersection: 50th Street West/Avenue L
 Analysis Condition: Existing (2008) - Saturday - Traffic Volumes

Roadway Type	No. of Lanes	Average Speed		
		A.M.	P.M.	
North-South Roadway: 50th Street	At Grade	2	20	20
East-West Roadway: Avenue L	At Grade	2	20	20

A.M. Peak Hour Traffic Volumes



P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	0	N-S Road:	729
E-W Road:	0	E-W Road:	1,263

Roadway CO Contributions and Concentrations

$$\text{Emissions} = (A \times B \times C) / 100,000^1$$

Roadway	Reference CO Concentrations				B Traffic Volume	C Emission Factors ²	Estimated CO Concentrations			
	E.O.R.	25 Feet	50 Feet	100 Feet			E.O.R.	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour										
North-South Road	14.0	7.6	5.7	4.0	0	5.39	0.00	0.00	0.00	0.00
East-West Road	3.7	2.7	2.2	1.7	0	5.39	0.00	0.00	0.00	0.00
P.M. Peak Traffic Hour										
North-South Road	3.7	2.7	2.2	1.7	729	5.39	0.15	0.11	0.09	0.07
East-West Road	14.0	7.6	5.7	4.0	1,263	5.39	0.95	0.52	0.39	0.27

¹ Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

² Emission factors from EMFAC2002 (2003).

Total Roadway CO Concentrations

$$\text{Peak Hour Emissions} = \text{North-South Concentration} + \text{East-West Concentration} + \text{Background 1-hour Concentration}^2$$

$$\text{8-Hour Emissions} = ((\text{Highest Peak Hour Concentration} - \text{Background 1-hour Concentration}) \times \text{Persistence Factor}) + \text{Background 8-hour Concentration}^2$$

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
Roadway Edge	2.9	4.0	1.9
25 Feet from Roadway Edge	2.9	3.5	1.6
50 Feet from Roadway Edge	2.9	3.4	1.5
100 Feet from Roadway Edge	2.9	3.2	1.4

² Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

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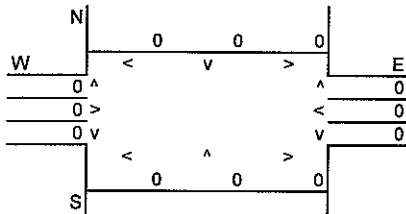
Nearest Air Monitoring Station measuring CO: 43301 Division Street
 Background 1-hour CO Concentration (ppm): 2.9
 Background 8-hour CO Concentration (ppm): 1.2
 Persistence Factor: 0.7
 Analysis Year: 2008

Roadway Data

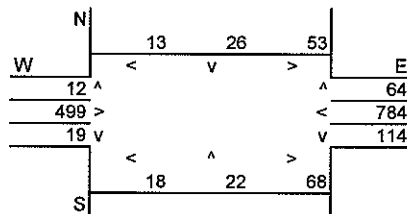
Intersection: 45th Street West/Avenue L
 Analysis Condition: Existing (2008) - Saturday - Traffic Volumes

	Roadway Type	No. of Lanes	Average Speed	
			A.M.	P.M.
North-South Roadway: 45th Street	At Grade	2	20	20
East-West Roadway: Avenue L	At Grade	2	20	20

A.M. Peak Hour Traffic Volumes



P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	0	N-S Road:	267
E-W Road:	0	E-W Road:	1,582

Roadway CO Contributions and Concentrations

$$\text{Emissions} = (A \times B \times C) / 100,000^1$$

Roadway	Reference CO Concentrations				B Traffic Volume	C Emission Factors ²	Estimated CO Concentrations			
	A ₁ E.O.R.	A ₂ 25 Feet	A ₃ 50 Feet	A ₄ 100 Feet			E.O.R.	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour										
North-South Road	14.0	7.6	5.7	4.0	0	5.39	0.00	0.00	0.00	0.00
East-West Road	3.7	2.7	2.2	1.7	0	5.39	0.00	0.00	0.00	0.00
P.M. Peak Traffic Hour										
North-South Road	3.7	2.7	2.2	1.7	267	5.39	0.05	0.04	0.03	0.02
East-West Road	14.0	7.6	5.7	4.0	1,582	5.39	1.19	0.65	0.49	0.34

¹ Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

² Emission factors from EMFAC2002 (2003).

Total Roadway CO Concentrations

$$\text{Peak Hour Emissions} = \text{North-South Concentration} + \text{East-West Concentration} + \text{Background 1-hour Concentration}^2$$

$$\text{8-Hour Emissions} = ((\text{Highest Peak Hour Concentration} - \text{Background 1-hour Concentration}) \times \text{Persistence Factor}) + \text{Background 8-hour Concentration}^2$$

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
Roadway Edge	2.9	4.1	2.1
25 Feet from Roadway Edge	2.9	3.6	1.7
50 Feet from Roadway Edge	2.9	3.4	1.5
100 Feet from Roadway Edge	2.9	3.3	1.4

² Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Title: Lane Ranch

Background Information

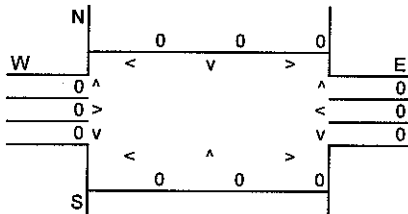
Nearest Air Monitoring Station measuring CO: 43301 Division Street
 Background 1-hour CO Concentration (ppm): 2.9
 Background 8-hour CO Concentration (ppm): 1.2
 Persistence Factor: 0.7
 Analysis Year: 2008

Roadway Data

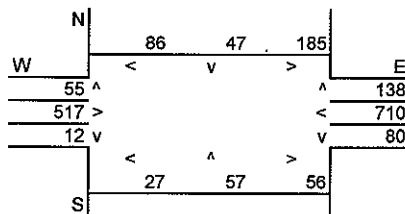
Intersection: 40th Street West/Avenue L
 Analysis Condition: Existing (2008) - Saturday - Traffic Volumes

	Roadway Type	No. of Lanes	Average Speed	
			A.M.	P.M.
North-South Roadway: 40th Street	At Grade	2	20	20
East-West Roadway: Avenue L	At Grade	2	20	20

A.M. Peak Hour Traffic Volumes



P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	0	N-S Road:	568
E-W Road:	0	E-W Road:	1,686

Roadway CO Contributions and Concentrations

$$\text{Emissions} = (A \times B \times C) / 100,000^1$$

Roadway	Reference CO Concentrations				Traffic Volume	Emission Factors ²	Estimated CO Concentrations			
	E.O.R.	25 Feet	50 Feet	100 Feet			E.O.R.	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour										
North-South Road	14.0	7.6	5.7	4.0	0	5.39	0.00	0.00	0.00	0.00
East-West Road	3.7	2.7	2.2	1.7	0	5.39	0.00	0.00	0.00	0.00
P.M. Peak Traffic Hour										
North-South Road	3.7	2.7	2.2	1.7	568	5.39	0.11	0.08	0.07	0.05
East-West Road	14.0	7.6	5.7	4.0	1,686	5.39	1.27	0.69	0.52	0.36

¹ Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

² Emission factors from EMFAC2002 (2003).

Total Roadway CO Concentrations

$$\text{Peak Hour Emissions} = \text{North-South Concentration} + \text{East-West Concentration} + \text{Background 1-hour Concentration}^2$$

$$\text{8-Hour Emissions} = ((\text{Highest Peak Hour Concentration} - \text{Background 1-hour Concentration}) \times \text{Persistence Factor}) + \text{Background 8-hour Concentration}^2$$

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
Roadway Edge	2.9	4.3	2.1
25 Feet from Roadway Edge	2.9	3.7	1.7
50 Feet from Roadway Edge	2.9	3.5	1.6
100 Feet from Roadway Edge	2.9	3.3	1.5

² Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Title: Lane Ranch

Background Information

Nearest Air Monitoring Station measuring CO: 43301 Division Street
 Background 1-hour CO Concentration (ppm): 2.9
 Background 8-hour CO Concentration (ppm): 1.2
 Persistence Factor: 0.7
 Analysis Year: 2012

Roadway Data

Intersection: 60th Street West/Avenue K
 Analysis Condition: Future (2012) Plus Project Traffic Volumes

	Roadway Type	No. of Lanes	Average Speed	
			A.M.	P.M.
North-South Roadway: 60th Street	At Grade	2	10	5
East-West Roadway: Avenue K	At Grade	4	10	5

A.M. Peak Hour Traffic Volumes

N	61	736	171	E
W	<	v	>	158
	40 ^A			232
	275 ^{>}			323
	158 ^v			
	<	^	>	
S	143	793	304	

P.M. Peak Hour Traffic Volumes

N	77	957	161	E
W	<	v	>	102
	35 ^A			311
	375 ^{>}			397
	220 ^v			
	<	^	>	
S	209	841	367	

Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	2,457	N-S Road:	2,991
E-W Road:	1,463	E-W Road:	1,713

Roadway CO Contributions and Concentrations

$$\text{Emissions} = (A \times B \times C) / 100,000^1$$

Roadway	Reference CO Concentrations				Traffic Volume	Emission Factors ²	Estimated CO Concentrations			
	E.O.R.	25 Feet	50 Feet	100 Feet			E.O.R.	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour										
North-South Road	14.0	7.6	5.7	4.0	2,457	5.15	1.77	0.96	0.72	0.51
East-West Road	3.3	2.6	2.2	1.7	1,463	5.15	0.25	0.20	0.17	0.13
P.M. Peak Traffic Hour										
North-South Road	14.0	7.6	5.7	4.0	2,991	6.35	2.66	1.44	1.08	0.76
East-West Road	3.3	2.6	2.2	1.7	1,713	6.35	0.36	0.28	0.24	0.18

¹ Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

² Emission factors from EMFAC2002 (2003).

Total Roadway CO Concentrations

$$\text{Peak Hour Emissions} = \text{North-South Concentration} + \text{East-West Concentration} + \text{Background 1-hour Concentration}^2$$

$$\text{8-Hour Emissions} = ((\text{Highest Peak Hour Concentration} - \text{Background 1-hour Concentration}) \times \text{Persistence Factor}) + \text{Background 8-hour Concentration}^2$$

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
Roadway Edge	4.9	5.9	3.3
25 Feet from Roadway Edge	4.1	4.6	2.4
50 Feet from Roadway Edge	3.8	4.2	2.1
100 Feet from Roadway Edge	3.5	3.8	1.8

² Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Title: Lane Ranch

Background Information

Nearest Air Monitoring Station measuring CO: 43301 Division Street
 Background 1-hour CO Concentration (ppm): 2.9
 Background 8-hour CO Concentration (ppm): 1.2
 Persistence Factor: 0.7
 Analysis Year: 2012

Roadway Data

Intersection: 60th Street West/Avenue L
 Analysis Condition: Future (2012) Plus Project Traffic Volumes

	Roadway Type	No. of Lanes	Average Speed	
			A.M.	P.M.
North-South Roadway: 60th Street	At Grade	2	20	10
East-West Roadway: Avenue L	At Grade	4	20	10

A.M. Peak Hour Traffic Volumes

N	59	1,029	267	E
W	<	v	>	
	66 ^			222
	622 >		<	465
	50 v		v	141
	<	^	>	
S	45	745	180	

P.M. Peak Hour Traffic Volumes

N	66	1,199	412	E
W	<	v	>	
	169 ^			365
	561 >		<	594
	144 v		v	191
	<	^	>	
S	116	1,154	198	

Highest Traffic Volumes (Vehicles per Hour)

N-S Road: 2,388	N-S Road: 3,365
E-W Road: 1,897	E-W Road: 2,321

Roadway CO Contributions and Concentrations

Emissions = (A x B x C) / 100,000¹

Roadway	Reference CO Concentrations				B Traffic Volume	C Emission Factors ²	Estimated CO Concentrations			
	A ₁ E.O.R.	A ₂ 25 Feet	A ₃ 50 Feet	A ₄ 100 Feet			E.O.R.	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour										
North-South Road	14.0	7.6	5.7	4.0	2,388	3.73	1.25	0.68	0.51	0.36
East-West Road	3.3	2.6	2.2	1.7	1,897	3.73	0.23	0.18	0.16	0.12
P.M. Peak Traffic Hour										
North-South Road	14.0	7.6	5.7	4.0	3,365	5.15	2.43	1.32	0.99	0.69
East-West Road	3.3	2.6	2.2	1.7	2,321	5.15	0.39	0.31	0.26	0.20

¹ Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

² Emission factors from EMFAC2002 (2003).

Total Roadway CO Concentrations

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration²

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration²

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
Roadway Edge	4.4	5.7	3.2
25 Feet from Roadway Edge	3.8	4.5	2.3
50 Feet from Roadway Edge	3.6	4.2	2.1
100 Feet from Roadway Edge	3.4	3.8	1.8

² Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Title: Lane Ranch

Background Information

Nearest Air Monitoring Station measuring CO: 43301 Division Street
 Background 1-hour CO Concentration (ppm): 2.9
 Background 8-hour CO Concentration (ppm): 1.2
 Persistence Factor: 0.7
 Analysis Year: 2012

Roadway Data

Intersection: 50th Street West/Avenue L
 Analysis Condition: Future (2012) Plus Project Traffic Volumes

Roadway Type	No. of Lanes	Average Speed	
		A.M.	P.M.
North-South Roadway: 50th Street	At Grade	2	5
East-West Roadway: Avenue L	At Grade	2	5

A.M. Peak Hour Traffic Volumes

N	103	265	34	E
W	<	v	>	
	93 ^A			26
	943 ^{>}			753
	62 ^v			67
	<	^	>	
S	70	294	39	

P.M. Peak Hour Traffic Volumes

N	131	269	53	E
W	<	v	>	
	76 ^A			56
	931 ^{>}			1,057
	53 ^v			250
	<	^	>	
S	63	241	171	

Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	815	N-S Road:	1,047
E-W Road:	2,024	E-W Road:	2,518

Roadway CO Contributions and Concentrations

Emissions = (A x B x C) / 100,000¹

Roadway	Reference CO Concentrations				Traffic Volume	Emission Factors ²	Estimated CO Concentrations			
	E.O.R.	25 Feet	50 Feet	100 Feet			E.O.R.	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour										
North-South Road	3.7	2.7	2.2	1.7	815	6.35	0.19	0.14	0.11	0.09
East-West Road	14.0	7.6	5.7	4.0	2,024	6.35	1.80	0.98	0.73	0.51
P.M. Peak Traffic Hour										
North-South Road	3.7	2.7	2.2	1.7	1,047	6.35	0.25	0.18	0.15	0.11
East-West Road	14.0	7.6	5.7	4.0	2,518	6.35	2.24	1.22	0.91	0.64

¹ Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

² Emission factors from EMFAC2002 (2003).

Total Roadway CO Concentrations

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration²

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration²

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
Roadway Edge	4.9	5.4	2.9
25 Feet from Roadway Edge	4.0	4.3	2.2
50 Feet from Roadway Edge	3.7	4.0	1.9
100 Feet from Roadway Edge	3.5	3.7	1.7

² Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Title: Lane Ranch

Background Information

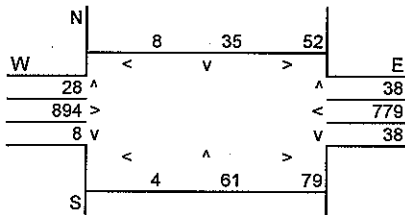
Nearest Air Monitoring Station measuring CO: 43301 Division Street
 Background 1-hour CO Concentration (ppm): 2.9
 Background 8-hour CO Concentration (ppm): 1.2
 Persistence Factor: 0.7
 Analysis Year: 2012

Roadway Data

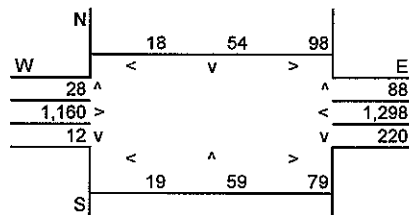
Intersection: 45th Street West/Avenue L
 Analysis Condition: Future (2012) Plus Project Traffic Volumes

Roadway Type	No. of Lanes	Average Speed		
		A.M.	P.M.	
North-South Roadway: 45th Street	At Grade	2	20	5
East-West Roadway: Avenue L	At Grade	2	20	5

A.M. Peak Hour Traffic Volumes



P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	225	N-S Road:	443
E-W Road:	1,880	E-W Road:	2,943

Roadway CO Contributions and Concentrations

$$\text{Emissions} = (A \times B \times C) / 100,000^1$$

Roadway	Reference CO Concentrations				Traffic Volume	Emission Factors ²	Estimated CO Concentrations			
	E.O.R.	25 Feet	50 Feet	100 Feet			E.O.R.	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour										
North-South Road	3.7	2.7	2.2	1.7	225	3.73	0.03	0.02	0.02	0.01
East-West Road	14.0	7.6	5.7	4.0	1,880	3.73	0.98	0.53	0.40	0.28
P.M. Peak Traffic Hour										
North-South Road	3.7	2.7	2.2	1.7	443	6.35	0.10	0.08	0.06	0.05
East-West Road	14.0	7.6	5.7	4.0	2,943	6.35	2.62	1.42	1.07	0.75

¹ Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

² Emission factors from EMFAC2002 (2003).

Total Roadway CO Concentrations

$$\text{Peak Hour Emissions} = \text{North-South Concentration} + \text{East-West Concentration} + \text{Background 1-hour Concentration}^2$$

$$\text{8-Hour Emissions} = ((\text{Highest Peak Hour Concentration} - \text{Background 1-hour Concentration}) \times \text{Persistence Factor}) + \text{Background 8-hour Concentration}^2$$

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
Roadway Edge	3.9	5.6	3.1
25 Feet from Roadway Edge	3.5	4.4	2.2
50 Feet from Roadway Edge	3.3	4.0	2.0
100 Feet from Roadway Edge	3.2	3.7	1.7

² Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Title: Lane Ranch

Background Information

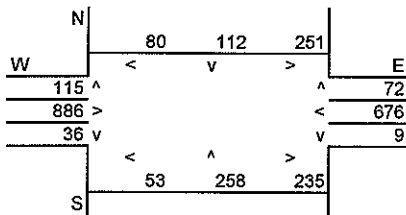
Nearest Air Monitoring Station measuring CO: 43301 Division Street
 Background 1-hour CO Concentration (ppm): 2.9
 Background 8-hour CO Concentration (ppm): 1.2
 Persistence Factor: 0.7
 Analysis Year: 2012

Roadway Data

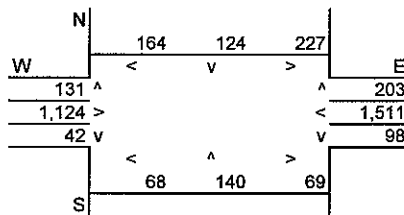
Intersection: 40th Street West/Avenue L
 Analysis Condition: Future (2012) Plus Project Traffic Volumes

	Roadway Type	No. of Lanes	Average Speed		
			A.M.	P.M.	
North-South Roadway:	40th Street	At Grade	2	10	5
East-West Roadway:	Avenue L	At Grade	2	10	5

A.M. Peak Hour Traffic Volumes



P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	888	N-S Road:	989
E-W Road:	2,129	E-W Road:	3,232

Roadway CO Contributions and Concentrations

$$\text{Emissions} = (A \times B \times C) / 100,000^1$$

Roadway	Reference CO Concentrations				Traffic Volume	Emission Factors ²	Estimated CO Concentrations			
	E.O.R.	25 Feet	50 Feet	100 Feet			E.O.R.	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour										
North-South Road	3.7	2.7	2.2	1.7	888	5.15	0.17	0.12	0.10	0.08
East-West Road	14.0	7.6	5.7	4.0	2,129	5.15	1.54	0.83	0.63	0.44
P.M. Peak Traffic Hour										
North-South Road	3.7	2.7	2.2	1.7	989	6.35	0.23	0.17	0.14	0.11
East-West Road	14.0	7.6	5.7	4.0	3,232	6.35	2.87	1.56	1.17	0.82

¹ Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

² Emission factors from EMFAC2002 (2003).

Total Roadway CO Concentrations

$$\text{Peak Hour Emissions} = \text{North-South Concentration} + \text{East-West Concentration} + \text{Background 1-hour Concentration}^2$$

$$\text{8-Hour Emissions} = ((\text{Highest Peak Hour Concentration} - \text{Background 1-hour Concentration}) \times \text{Persistence Factor}) + \text{Background 8-hour Concentration}^2$$

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
Roadway Edge	4.6	6.0	3.4
25 Feet from Roadway Edge	3.9	4.6	2.4
50 Feet from Roadway Edge	3.6	4.2	2.1
100 Feet from Roadway Edge	3.4	3.8	1.8

² Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Title: Lane Ranch

Background Information

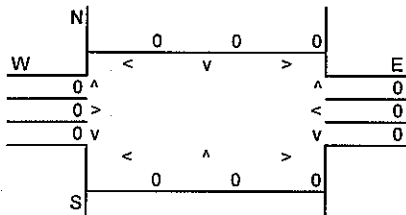
Nearest Air Monitoring Station measuring CO: 43301 Division Street
 Background 1-hour CO Concentration (ppm): 2.9
 Background 8-hour CO Concentration (ppm): 1.2
 Persistence Factor: 0.7
 Analysis Year: 2012

Roadway Data

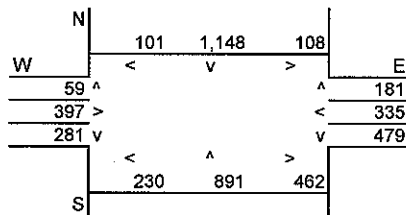
Intersection: 60th Street West/Avenue K
 Analysis Condition: Future (2012) Plus Project - Saturday -Traffic Volumes

	Roadway Type	No. of Lanes	Average Speed	
			A.M.	P.M.
North-South Roadway: 60th Street	At Grade	2	5	5
East-West Roadway: Avenue K	At Grade	4	5	5

A.M. Peak Hour Traffic Volumes



P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	0	N-S Road:	3,491
E-W Road:	0	E-W Road:	1,962

Roadway CO Contributions and Concentrations

$$\text{Emissions} = (A \times B \times C) / 100,000^1$$

Roadway	Reference CO Concentrations				Traffic Volume	Emission Factors ²	Estimated CO Concentrations			
	A ₁ E.O.R.	A ₂ 25 Feet	A ₃ 50 Feet	A ₄ 100 Feet			E.O.R.	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour										
North-South Road	14.0	7.6	5.7	4.0	0	6.35	0.00	0.00	0.00	0.00
East-West Road	3.3	2.6	2.2	1.7	0	6.35	0.00	0.00	0.00	0.00
P.M. Peak Traffic Hour										
North-South Road	14.0	7.6	5.7	4.0	3,491	6.35	3.10	1.69	1.26	0.89
East-West Road	3.3	2.6	2.2	1.7	1,962	6.35	0.41	0.32	0.27	0.21

¹ Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

² Emission factors from EMFAC2002 (2003).

Total Roadway CO Concentrations

$$\text{Peak Hour Emissions} = \text{North-South Concentration} + \text{East-West Concentration} + \text{Background 1-hour Concentration}^2$$

$$\text{8-Hour Emissions} = ((\text{Highest Peak Hour Concentration} - \text{Background 1-hour Concentration}) \times \text{Persistence Factor}) + \text{Background 8-hour Concentration}^2$$

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
Roadway Edge	2.9	6.4	3.6
25 Feet from Roadway Edge	2.9	4.9	2.6
50 Feet from Roadway Edge	2.9	4.4	2.3
100 Feet from Roadway Edge	2.9	4.0	1.9

² Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Title: Lane Ranch

Background Information

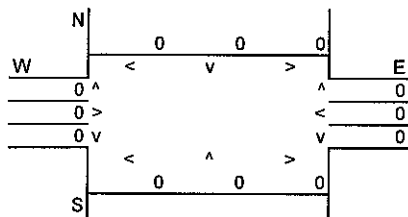
Nearest Air Monitoring Station measuring CO: 43301 Division Street
 Background 1-hour CO Concentration (ppm): 2.9
 Background 8-hour CO Concentration (ppm): 1.2
 Persistence Factor: 0.7
 Analysis Year: 2012

Roadway Data

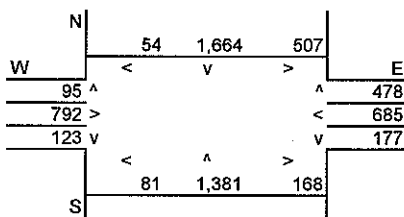
Intersection: 60th Street West/Avenue L
 Analysis Condition: Future (2012) Plus Project - Saturday - Traffic Volumes

	Roadway Type	No. of Lanes	Average Speed	
			A.M.	P.M.
North-South Roadway:	60th Street	At Grade	2	5
East-West Roadway:	Avenue L	At Grade	4	5

A.M. Peak Hour Traffic Volumes



P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	0	N-S Road:	4,179
E-W Road:	0	E-W Road:	2,807

Roadway CO Contributions and Concentrations

$$\text{Emissions} = (A \times B \times C) / 100,000^1$$

Roadway	Reference CO Concentrations				Traffic Volume	Emission Factors ²	Estimated CO Concentrations			
	E.O.R.	25 Feet	50 Feet	100 Feet			E.O.R.	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour										
North-South Road	14.0	7.6	5.7	4.0	0	6.35	0.00	0.00	0.00	0.00
East-West Road	3.3	2.6	2.2	1.7	0	6.35	0.00	0.00	0.00	0.00
P.M. Peak Traffic Hour										
North-South Road	14.0	7.6	5.7	4.0	4,179	6.35	3.72	2.02	1.51	1.06
East-West Road	3.3	2.6	2.2	1.7	2,807	6.35	0.59	0.46	0.39	0.30

¹ Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

² Emission factors from EMFAC2002 (2003).

Total Roadway CO Concentrations

$$\text{Peak Hour Emissions} = \text{North-South Concentration} + \text{East-West Concentration} + \text{Background 1-hour Concentration}^2$$

$$\text{8-Hour Emissions} = ((\text{Highest Peak Hour Concentration} - \text{Background 1-hour Concentration}) \times \text{Persistence Factor}) + \text{Background 8-hour Concentration}^2$$

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
Roadway Edge	2.9	7.2	4.2
25 Feet from Roadway Edge	2.9	5.4	2.9
50 Feet from Roadway Edge	2.9	4.8	2.5
100 Feet from Roadway Edge	2.9	4.3	2.1

² Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Title: Lane Ranch

Background Information

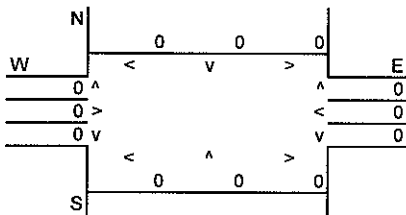
Nearest Air Monitoring Station measuring CO: 43301 Division Street
 Background 1-hour CO Concentration (ppm): 2.9
 Background 8-hour CO Concentration (ppm): 1.2
 Persistence Factor: 0.7
 Analysis Year: 2012

Roadway Data

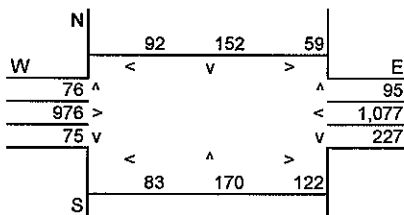
Intersection: 50th Street West/Avenue L
 Analysis Condition: Future (2012) Plus Project - Saturday -Traffic Volumes

	Roadway Type	No. of Lanes	Average Speed		
			A.M.	P.M.	
North-South Roadway:	50th Street	At Grade	2	5	5
East-West Roadway:	Avenue L	At Grade	2	5	5

A.M. Peak Hour Traffic Volumes



P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	0	N-S Road:	829
E-W Road:	0	E-W Road:	2,556

Roadway CO Contributions and Concentrations

$$\text{Emissions} = (A \times B \times C) / 100,000^1$$

Roadway	Reference CO Concentrations				B Traffic Volume	C Emission Factors ²	Estimated CO Concentrations			
	A ₁ E.O.R.	A ₂ 25 Feet	A ₃ 50 Feet	A ₄ 100 Feet			E.O.R.	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour										
North-South Road	14.0	7.6	5.7	4.0	0	6.35	0.00	0.00	0.00	0.00
East-West Road	3.7	2.7	2.2	1.7	0	6.35	0.00	0.00	0.00	0.00
P.M. Peak Traffic Hour										
North-South Road	3.7	2.7	2.2	1.7	829	6.35	0.19	0.14	0.12	0.09
East-West Road	14.0	7.6	5.7	4.0	2,556	6.35	2.27	1.23	0.93	0.65

¹ Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

² Emission factors from EMFAC2002 (2003).

Total Roadway CO Concentrations

$$\text{Peak Hour Emissions} = \text{North-South Concentration} + \text{East-West Concentration} + \text{Background 1-hour Concentration}^2$$

$$\text{8-Hour Emissions} = ((\text{Highest Peak Hour Concentration} - \text{Background 1-hour Concentration}) \times \text{Persistence Factor}) + \text{Background 8-hour Concentration}^2$$

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
Roadway Edge	2.9	5.4	2.9
25 Feet from Roadway Edge	2.9	4.3	2.1
50 Feet from Roadway Edge	2.9	3.9	1.9
100 Feet from Roadway Edge	2.9	3.6	1.7

² Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Title: Lane Ranch

Background Information

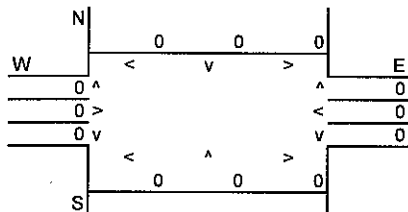
Nearest Air Monitoring Station measuring CO: 43301 Division Street
 Background 1-hour CO Concentration (ppm): 2.9
 Background 8-hour CO Concentration (ppm): 1.2
 Persistence Factor: 0.7
 Analysis Year: 2012

Roadway Data

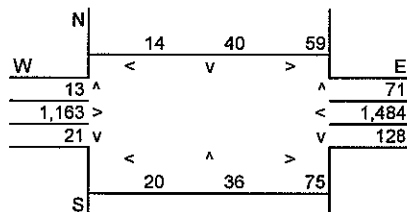
Intersection: 45th Street West/Avenue L
 Analysis Condition: Future (2012) Plus Project - Saturday - Traffic Volumes

	Roadway Type	No. of Lanes	Average Speed	
			A.M.	P.M.
North-South Roadway:	45th Street	At Grade	2	5
East-West Roadway:	Avenue L	At Grade	2	5

A.M. Peak Hour Traffic Volumes



P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	0	N-S Road:	320
E-W Road:	0	E-W Road:	2,980

Roadway CO Contributions and Concentrations

$$\text{Emissions} = (A \times B \times C) / 100,000^1$$

Roadway	Reference CO Concentrations				Traffic Volume	Emission Factors ²	Estimated CO Concentrations			
	E.O.R.	25 Feet	50 Feet	100 Feet			E.O.R.	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour										
North-South Road	14.0	7.6	5.7	4.0	0	6.35	0.00	0.00	0.00	0.00
East-West Road	3.7	2.7	2.2	1.7	0	6.35	0.00	0.00	0.00	0.00
P.M. Peak Traffic Hour										
North-South Road	3.7	2.7	2.2	1.7	320	6.35	0.08	0.05	0.04	0.03
East-West Road	14.0	7.6	5.7	4.0	2,980	6.35	2.65	1.44	1.08	0.76

¹ Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

² Emission factors from EMFAC2002 (2003).

Total Roadway CO Concentrations

$$\text{Peak Hour Emissions} = \text{North-South Concentration} + \text{East-West Concentration} + \text{Background 1-hour Concentration}^2$$

$$\text{8-Hour Emissions} = ((\text{Highest Peak Hour Concentration} - \text{Background 1-hour Concentration}) \times \text{Persistence Factor}) + \text{Background 8-hour Concentration}^2$$

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
Roadway Edge	2.9	5.6	3.1
25 Feet from Roadway Edge	2.9	4.4	2.2
50 Feet from Roadway Edge	2.9	4.0	2.0
100 Feet from Roadway Edge	2.9	3.7	1.7

² Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

SIMPLIFIED CALINE4 CARBON MONOXIDE ANALYSIS

Project Title: Lane Ranch

Background Information

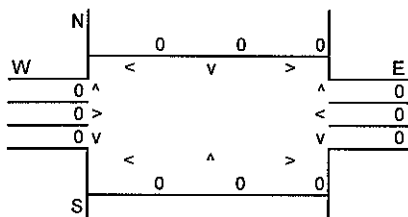
Nearest Air Monitoring Station measuring CO: 43301 Division Street
 Background 1-hour CO Concentration (ppm): 2.9
 Background 8-hour CO Concentration (ppm): 1.2
 Persistence Factor: 0.7
 Analysis Year: 2012

Roadway Data

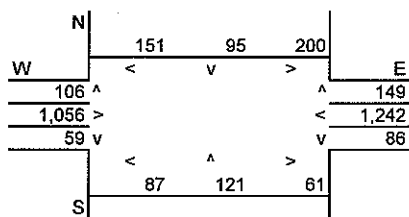
Intersection: 40th Street West/Avenue L
 Analysis Condition: Future (2012) Plus Project - Saturday - Traffic Volumes

	Roadway Type	No. of Lanes	Average Speed		
			A.M.	P.M.	
North-South Roadway:	40th Street	At Grade	2	10	10
East-West Roadway:	Avenue L	At Grade	2	10	10

A.M. Peak Hour Traffic Volumes



P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	0	N-S Road:	822
E-W Road:	0	E-W Road:	2,794

Roadway CO Contributions and Concentrations

Emissions = (A x B x C) / 100,000¹

Roadway	Reference CO Concentrations				Traffic Volume	Emission Factors ²	Estimated CO Concentrations			
	E.O.R.	25 Feet	50 Feet	100 Feet			E.O.R.	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour										
North-South Road	14.0	7.6	5.7	4.0	0	5.15	0.00	0.00	0.00	0.00
East-West Road	3.7	2.7	2.2	1.7	0	5.15	0.00	0.00	0.00	0.00
P.M. Peak Traffic Hour										
North-South Road	3.7	2.7	2.2	1.7	822	5.15	0.16	0.11	0.09	0.07
East-West Road	14.0	7.6	5.7	4.0	2,794	5.15	2.02	1.09	0.82	0.58

¹ Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

² Emission factors from EMFAC2002 (2003).

Total Roadway CO Concentrations

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration²

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration²

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
Roadway Edge	2.9	5.1	2.7
25 Feet from Roadway Edge	2.9	4.1	2.0
50 Feet from Roadway Edge	2.9	3.8	1.8
100 Feet from Roadway Edge	2.9	3.5	1.6

² Methodology from Bay Area Air Quality Management District *BAAQMD CEQA Guidelines* (1996).

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Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: \\.\host\Shared Folders\Bryan On My Mac\Desktop\Current Projects\Lane Ranch - Lancaster\URBEMIS\Construction Emissions - Mitigated v2.urb924

Project Name: Lane Ranch

Project Location: South Coast AQMD

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

CONSTRUCTION EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10 Dust</u>	<u>PM10 Exhaust</u>	<u>PM10</u>	<u>PM2.5 Dust</u>	<u>PM2.5 Exhaust</u>	<u>PM2.5</u>	<u>CO2</u>
2008 TOTALS (lbs/day unmitigated)	17.02	153.97	74.76	0.04	107.72	6.82	114.53	22.50	6.27	28.77	13,145.07
2008 TOTALS (lbs/day mitigated)	17.02	130.91	74.76	0.04	10.78	6.82	17.59	2.25	6.27	8.52	13,145.07
2009 TOTALS (lbs/day unmitigated)	234.91	61.50	62.69	0.04	0.18	4.39	4.57	0.06	4.03	4.10	8,840.81
2009 TOTALS (lbs/day mitigated)	99.66	61.50	62.69	0.04	0.18	4.39	4.57	0.06	4.03	4.10	8,840.81

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10 Dust</u>	<u>PM10 Exhaust</u>	<u>PM10</u>	<u>PM2.5 Dust</u>	<u>PM2.5 Exhaust</u>	<u>PM2.5</u>	<u>CO2</u>
Time Slice 3/3/2008-3/28/2008 Active Days: 20	<u>17.02</u>	<u>153.97</u>	<u>74.76</u>	0.00	107.72	<u>6.82</u>	<u>114.53</u>	22.50	<u>6.27</u>	<u>28.77</u>	<u>13,145.07</u>
Mass Grading 03/03/2008-03/28/2008	17.02	153.97	74.76	0.00	107.72	6.82	114.53	22.50	6.27	28.77	13,145.07
Mass Grading Dust	0.00	0.00	0.00	0.00	107.70	0.00	107.70	22.49	0.00	22.49	0.00
Mass Grading Off Road Diesel	16.91	153.77	71.42	0.00	0.00	6.81	6.81	0.00	6.26	6.26	12,802.73
Mass Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Worker Trips	0.11	0.20	3.33	0.00	0.02	0.01	0.03	0.01	0.01	0.01	342.34
Time Slice 3/31/2008-7/18/2008 Active Days: 80	10.26	71.34	38.73	0.00	<u>107.72</u>	4.67	112.39	<u>22.50</u>	4.29	26.79	6,956.14
Fine Grading 03/31/2008-07/18/2008	10.26	71.34	38.73	0.00	107.72	4.67	112.39	22.50	4.29	26.79	6,956.14
Fine Grading Dust	0.00	0.00	0.00	0.00	107.70	0.00	107.70	22.49	0.00	22.49	0.00
Fine Grading Off Road Diesel	10.12	71.08	34.49	0.00	0.00	4.66	4.66	0.00	4.28	4.28	6,520.44
Fine Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading Worker Trips	0.14	0.26	4.24	0.00	0.02	0.01	0.03	0.01	0.01	0.02	435.70

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Time Slice 7/21/2008-12/31/2008 Active	10.57	65.57	65.86	0.04	0.18	4.61	4.79	0.06	4.23	4.30	8,842.18
Days: 118											
Building 07/21/2008-01/02/2009	10.57	65.57	65.86	0.04	0.18	4.61	4.79	0.06	4.23	4.30	8,842.18
Building Off Road Diesel	9.11	58.64	30.76	0.00	0.00	4.31	4.31	0.00	3.96	3.96	4,836.92
Building Vendor Trips	0.43	5.03	4.07	0.01	0.03	0.22	0.25	0.01	0.20	0.21	819.21
Building Worker Trips	1.02	1.89	31.03	0.03	0.15	0.08	0.23	0.05	0.07	0.12	3,186.05
Time Slice 1/1/2009-1/2/2009 Active	9.85	<u>61.50</u>	<u>62.69</u>	0.04	<u>0.18</u>	<u>4.39</u>	<u>4.57</u>	<u>0.06</u>	<u>4.03</u>	<u>4.10</u>	<u>8,840.81</u>
Days: 2											
Building 07/21/2008-01/02/2009	9.85	61.50	62.69	0.04	0.18	4.39	4.57	0.06	4.03	4.10	8,840.81
Building Off Road Diesel	8.51	55.05	30.05	0.00	0.00	4.11	4.11	0.00	3.78	3.78	4,836.92
Building Vendor Trips	0.41	4.72	3.80	0.01	0.03	0.20	0.23	0.01	0.18	0.19	819.26
Building Worker Trips	0.93	1.73	28.85	0.03	0.15	0.09	0.24	0.05	0.07	0.13	3,184.63
Time Slice 1/5/2009-2/25/2009 Active	<u>234.91</u>	56.45	33.60	0.01	0.06	3.77	3.83	0.02	3.47	3.49	5,314.06
Days: 38											
Asphalt 01/05/2009-02/25/2009	9.39	56.28	30.63	0.01	0.04	3.76	3.80	0.01	3.46	3.47	4,986.69
Paving Off-Gas	1.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	7.22	48.92	25.33	0.00	0.00	3.45	3.45	0.00	3.18	3.18	3,813.07
Paving On Road Diesel	0.54	7.21	2.77	0.01	0.03	0.30	0.33	0.01	0.28	0.29	893.65
Paving Worker Trips	0.08	0.15	2.54	0.00	0.01	0.01	0.02	0.00	0.01	0.01	279.97
Coating 01/05/2009-02/25/2009	225.53	0.18	2.97	0.00	0.02	0.01	0.02	0.01	0.01	0.01	327.37
Architectural Coating	225.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.10	0.18	2.97	0.00	0.02	0.01	0.02	0.01	0.01	0.01	327.37

Phase Assumptions

Phase: Fine Grading 3/31/2008 - 7/18/2008 - Site Preparation

Total Acres Disturbed: 35.53

Maximum Daily Acreage Disturbed: 9

Fugitive Dust Level of Detail: Low

Onsite Cut/Fill: 150 cubic yards/day; Offsite Cut/Fill: 0 cubic yards/day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

1 Bore/Drill Rigs (291 hp) operating at a 0.75 load factor for 8 hours per day

2 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day

2 Rubber Tired Loaders (164 hp) operating at a 0.54 load factor for 8 hours per day

2 Skid Steer Loaders (44 hp) operating at a 0.55 load factor for 8 hours per day

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4 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day

2 Trenchers (63 hp) operating at a 0.75 load factor for 8 hours per day

1 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Mass Grading 3/3/2008 - 3/28/2008 - Grading

Total Acres Disturbed: 35.53

Maximum Daily Acreage Disturbed: 9

Fugitive Dust Level of Detail: Low

Onsite Cut/Fill: 150 cubic yards/day; Offsite Cut/Fill: 0 cubic yards/day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

2 Crawler Tractors (147 hp) operating at a 0.64 load factor for 8 hours per day

2 Graders (174 hp) operating at a 0.61 load factor for 8 hours per day

6 Scrapers (313 hp) operating at a 0.72 load factor for 8 hours per day

1 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Paving 1/5/2009 - 2/25/2009 - Finishing

Acres to be Paved: 22.32

Off-Road Equipment:

2 Graders (174 hp) operating at a 0.61 load factor for 8 hours per day

1 Pavers (100 hp) operating at a 0.62 load factor for 8 hours per day

4 Paving Equipment (104 hp) operating at a 0.53 load factor for 8 hours per day

2 Rubber Tired Loaders (164 hp) operating at a 0.54 load factor for 8 hours per day

Phase: Building Construction 7/21/2008 - 1/2/2009 - Building Construction

Off-Road Equipment:

2 Cranes (399 hp) operating at a 0.43 load factor for 8 hours per day

4 Forklifts (145 hp) operating at a 0.3 load factor for 8 hours per day

4 Rough Terrain Forklifts (93 hp) operating at a 0.6 load factor for 8 hours per day

4 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day

2 Welders (45 hp) operating at a 0.45 load factor for 8 hours per day

Phase: Architectural Coating 1/5/2009 - 2/25/2009 - Finishing

Rule: Residential Interior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 100

Rule: Residential Interior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 50

Rule: Residential Exterior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 250

Rule: Residential Exterior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 100

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Rule: Nonresidential Interior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250

Rule: Nonresidential Exterior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250

Construction Mitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10 Dust</u>	<u>PM10 Exhaust</u>	<u>PM10</u>	<u>PM2.5 Dust</u>	<u>PM2.5 Exhaust</u>	<u>PM2.5</u>	<u>CO2</u>
Time Slice 3/3/2008-3/28/2008 Active Days: 20	<u>17.02</u>	<u>130.91</u>	<u>74.76</u>	0.00	10.78	<u>6.82</u>	<u>17.59</u>	2.25	<u>6.27</u>	<u>8.52</u>	<u>13,145.07</u>
Mass Grading 03/03/2008-03/28/2008	17.02	130.91	74.76	0.00	10.78	6.82	17.59	2.25	6.27	8.52	13,145.07
Mass Grading Dust	0.00	0.00	0.00	0.00	10.76	0.00	10.76	2.25	0.00	2.25	0.00
Mass Grading Off Road Diesel	16.91	130.71	71.42	0.00	0.00	6.81	6.81	0.00	6.26	6.26	12,802.73
Mass Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Worker Trips	0.11	0.20	3.33	0.00	0.02	0.01	0.03	0.01	0.01	0.01	342.34
Time Slice 3/31/2008-7/18/2008 Active Days: 80	10.26	71.34	38.73	0.00	<u>10.78</u>	4.67	15.45	<u>2.25</u>	4.29	6.55	6,956.14
Fine Grading 03/31/2008-07/18/2008	10.26	71.34	38.73	0.00	10.78	4.67	15.45	2.25	4.29	6.55	6,956.14
Fine Grading Dust	0.00	0.00	0.00	0.00	10.76	0.00	10.76	2.25	0.00	2.25	0.00
Fine Grading Off Road Diesel	10.12	71.08	34.49	0.00	0.00	4.66	4.66	0.00	4.28	4.28	6,520.44
Fine Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading Worker Trips	0.14	0.26	4.24	0.00	0.02	0.01	0.03	0.01	0.01	0.02	435.70
Time Slice 7/21/2008-12/31/2008 Active Days: 118	10.57	65.57	65.86	<u>0.04</u>	0.18	4.61	4.79	0.06	4.23	4.30	8,842.18
Building 07/21/2008-01/02/2009	10.57	65.57	65.86	0.04	0.18	4.61	4.79	0.06	4.23	4.30	8,842.18
Building Off Road Diesel	9.11	58.64	30.76	0.00	0.00	4.31	4.31	0.00	3.96	3.96	4,836.92
Building Vendor Trips	0.43	5.03	4.07	0.01	0.03	0.22	0.25	0.01	0.20	0.21	819.21
Building Worker Trips	1.02	1.89	31.03	0.03	0.15	0.08	0.23	0.05	0.07	0.12	3,186.05
Time Slice 1/1/2009-1/2/2009 Active Days: 2	9.85	<u>61.50</u>	<u>62.69</u>	<u>0.04</u>	<u>0.18</u>	<u>4.39</u>	<u>4.57</u>	<u>0.06</u>	<u>4.03</u>	<u>4.10</u>	<u>8,840.81</u>
Building 07/21/2008-01/02/2009	9.85	61.50	62.69	0.04	0.18	4.39	4.57	0.06	4.03	4.10	8,840.81
Building Off Road Diesel	8.51	55.05	30.05	0.00	0.00	4.11	4.11	0.00	3.78	3.78	4,836.92
Building Vendor Trips	0.41	4.72	3.80	0.01	0.03	0.20	0.23	0.01	0.18	0.19	819.26
Building Worker Trips	0.93	1.73	28.85	0.03	0.15	0.09	0.24	0.05	0.07	0.13	3,184.63
Time Slice 1/5/2009-2/25/2009 Active Days: 38	<u>99.66</u>	56.45	33.60	0.01	0.06	3.77	3.83	0.02	3.47	3.49	5,314.06

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Asphalt 01/05/2009-02/25/2009	9.39	56.28	30.63	0.01	0.04	3.76	3.80	0.01	3.46	3.47	4,986.69
Paving Off-Gas	1.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	7.22	48.92	25.33	0.00	0.00	3.45	3.45	0.00	3.18	3.18	3,813.07
Paving On Road Diesel	0.54	7.21	2.77	0.01	0.03	0.30	0.33	0.01	0.28	0.29	893.65
Paving Worker Trips	0.08	0.15	2.54	0.00	0.01	0.01	0.02	0.00	0.01	0.01	279.97
Coating 01/05/2009-02/25/2009	90.27	0.18	2.97	0.00	0.02	0.01	0.02	0.01	0.01	0.01	327.37
Architectural Coating	90.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.10	0.18	2.97	0.00	0.02	0.01	0.02	0.01	0.01	0.01	327.37

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Fine Grading 3/31/2008 - 7/18/2008 - Site Preparation

For Soil Stabilizing Measures, the Apply soil stabilizers to inactive areas mitigation reduces emissions by:

PM10: 84% PM25: 84%

For Soil Stabilizing Measures, the Replace ground cover in disturbed areas quickly mitigation reduces emissions by:

PM10: 5% PM25: 5%

For Soil Stabilizing Measures, the Water exposed surfaces 2x daily watering mitigation reduces emissions by:

PM10: 55% PM25: 55%

For Unpaved Roads Measures, the Reduce speed on unpaved roads to less than 15 mph mitigation reduces emissions by:

PM10: 44% PM25: 44%

For Unpaved Roads Measures, the Manage haul road dust 3x daily watering mitigation reduces emissions by:

PM10: 61% PM25: 61%

The following mitigation measures apply to Phase: Mass Grading 3/3/2008 - 3/28/2008 - Grading

For Soil Stabilizing Measures, the Apply soil stabilizers to inactive areas mitigation reduces emissions by:

PM10: 84% PM25: 84%

For Soil Stabilizing Measures, the Replace ground cover in disturbed areas quickly mitigation reduces emissions by:

PM10: 5% PM25: 5%

For Soil Stabilizing Measures, the Water exposed surfaces 2x daily watering mitigation reduces emissions by:

PM10: 55% PM25: 55%

For Unpaved Roads Measures, the Reduce speed on unpaved roads to less than 15 mph mitigation reduces emissions by:

PM10: 44% PM25: 44%

For Unpaved Roads Measures, the Manage haul road dust 3x daily watering mitigation reduces emissions by:

PM10: 61% PM25: 61%

For Graders, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:

NOX: 15%

For Water Trucks, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:

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NOX: 15%

For Scrapers, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:

NOX: 15%

For Crawler Tractors, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:

NOX: 15%

The following mitigation measures apply to Phase: Architectural Coating 1/5/2009 - 2/25/2009 - Finishing

For Nonresidential Architectural Coating Measures, the Nonresidential Exterior: Use Low VOC Coatings mitigation reduces emissions by:

ROG: 60%

For Nonresidential Architectural Coating Measures, the Nonresidential Interior: Use Low VOC Coatings mitigation reduces emissions by:

ROG: 60%

Grading

Construction Activity		
Grading	1,547,687	Square Feet ^a
Grading Schedule -	20 days ^a	
	Crew Size	12
Equipment Type ^{ab}	No. of Equipment	hr/day
Crawler Tractors	2	8.0
Graders	2	8.0
Scrapers	6	8.0

Construction Equipment Emission Factors					
Equipment Type ^c	CO	NOx	PM10	SOx	VOC
	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
Crawler Tractors	0.616	1.480	0.099	0.232	0.156
Graders	0.540	1.331	0.069	0.276	0.112
Scrapers	0.748	2.625	0.105	0.496	0.190

Fugitive Dust Grading Parameters	
Vehicle Speed (mph) ^d	Vehicle Miles Traveled ^e
3	1.33

Fugitive Dust Stockpiling Parameters				
Silt Content ^f	Precipitation Days ^g	Mean Wind Speed Percent ^h	TSP Fraction	Area ⁱ (acres)
6.9	10	100	0.5	0.1

Fugitive Dust Material Handling				
Aerodynamic Particle Size Multiplier ^j	Mean Wind Speed ^k	Moisture Content ^l	Dirt Handled ^m	Dirt Handled ⁿ
	mph		cy	lb/day
0.35	10	7.9	15,000	1,875,000

Construction Vehicle (Mobile Source) Emission Factors						
	CO	NOx	PM10	SOx	VOC	PM2.5
	lb/mile	lb/mile	lb/mile	lb/mile	lb/mile	lb/mile
Heavy-Duty Truck ^o	0.021949	0.023713	0.000856	0.00002565	0.00299270	0.000739

Construction Worker Number of Trips and Trip Length		
Vehicle	No. of One-Way Trips/Day	One Way Trip Length (miles)
Haul Truck ^a	0	0.1
Water Truck ^o	3	6.4

Incremental Increase in Onsite Combustion Emissions from Construction Equipment					
Equation: Emission Factor (lb/BHP-hr) x No. of Equipment x Work Day (hr/day) x Equipment rating (hp) x Load Factor (%/100) = Onsite Construction Emissions (lb/day)					
Equipment Type	CO	NOx	PM10	SOx	VOC
	lb/day	lb/day	lb/day	lb/day	lb/day
Crawler Tractors	9.86	23.68	1.58	3.71	2.50
Graders	8.64	21.30	1.10	4.42	1.79
Scrapers	35.90	126.00	5.04	23.81	9.12
Total	54.4	171.0	7.7	31.9	13.4

Incremental Increase in Fugitive Dust Emissions from Construction Operations		
Equations:		
Grading: PM10 Emissions (lb/day) = 0.60 x 0.051 x mean vehicle speed ^{2.0} x VMT x (1 - control efficiency)		
Storage Piles ^q : PM10 Emissions (lb/day) = 1.7 x (silt content/1.5) x ((365-precipitation days)/235) x wind speed percent/15 x TSP fraction x Area x (1 - control efficiency)		
Material Handling ^r : PM10 Emissions (lb/day) = (0.0032 x aerodynamic particle size multiplier x (wind speed (mph)/5) ^{1.3} /(moisture content/2) ^{1.4} x dirt handled (lb/day)/2,000 (lb/ton) (1 - control efficiency)		
Description	Control Efficiency	Unmitigated PM10 ^s
	%	lb/day
Earthmoving	68	0.12
Storage Piles	68	1.26
Material Handling	68	0.12
Total		1.50

Incremental Increase in Onsite Combustion Emissions from Onroad Mobile Vehicles						
Equation: Emission Factor (lb/mile) x No. of One-Way Trips/Day x 2 x Trip length (mile) = Mobile Emissions (lb/day)						
Vehicle	CO	NOx	PM10	SOx	VOC	PM2.5
	lb/day	lb/day	lb/day	lb/day	lb/day	lb/day
Haul Truck	0.00	0.00	0.00	0.00	0.00	0.00
Water Truck	0.84	0.91	0.03	0	0.11	0.03
Total	0.84	0.91	0.03	0.00	0.11	0.03

Grading

Total Incremental Localized Emissions from Construction Activities					
Sources	CO lb/day	NOx lb/day	PM10 lb/day	SOx lb/day	VOC lb/day
On-site Emissions	55.2	171.9	9.3	31.9	13.5

Combustion and Fugitive Summary	PM2.5 Fraction^u	PM10 lb/day	PM2.5 lb/day
Combustion	0.92	7.8	7.2
Fugitive	0.21	1.5	0.3
Total		9.3	7.5

Notes:

- a) Based on builders general construction schedule.
- b) Equipment Emission Factors (EFs) from "Off-Road Model EF" worksheet equipment name might be modified to match sheet to look up EFs automatically
- c) SCAB values provided by the ARB, Aug 2004. Assumed all equipment is diesel fueled.
- d) Caterpillar Performance Handbook, Edition 33, October 2003 Operating Speeds, p 2-3.
- e) Assuming 15,000 cubic yards of dirt handled [(15,000 cyd x 2,500 lb/cyd)/20 days = 1,875,000 lb/day]
- f) USEPA, AP-42, July 1998, Table 11.9-3 Typical Values for Corection Factors Applicable to the Predictive Emission Factor Equations
- g) Table A9-9-E2, SCAQMD CEQA Air Quality Handbook, 1993
- h) Mean wind speed percent - percent of time mean wind speed exceeds 12 mph. At least one meteorological site recorded wind speeds greater than 12 mph over a 24-hour period in 1981.
- i) Assumed storage piles are 0.1 acres in size
- j) USEPA, AP-42, Jan 1995, Section 13.2.4 Aggretate Handling and Storage Piles, p 13.2.4-3 Aerodynamic particle size multiplier for < 10 µm
- k) Mean wind speed - maximum of daily average wind speeds reported in 1981 meteorological data.
- l) Assuming 15,000 cubic yards of dirt handled [(15,000 cyd x 2,500 lb/cyd)/20 days = 1,875,000 lb/day]
- m) CARB, EMFAC2002 (version 2.2) Burden Model, Winter 2005, 75 F, 40% RH: EF, lb/yr = (EF, ton/yr x 2,000 lb/ton)/VMT
- n) No net import or export of material
- o) Assumed six foot wide water truck traverses over 1,547,687 square feet of disturbed area
- p) USEPA, AP-42, July 1998, Table 11.9-1, Equation for Site Grading ≤ 10 µm
- q) USEPA, AP-42, Jan 1995, Section 13.2.4 Aggretate Handling and Storage Piles, Equation 1
- r) USEPA, Fugitive Dust Background Document and Technical Information Document for Best Available Control Measures, Sept 1992, EPA-450/2-92-004, Equation 2-12
- s) Includes watering at least three times a day per Rule 403 (68% control efficiency).
- t) AVAQMD significant emissions thresholds
- u) ARB's CEIDARS database PM2.5 fractions - contruction dust category for fugitive and diesel vehicle exhaust category for combustion.

Site Prep

Construction Activity	
Site Preparation	394,575 Square Feet ^a
Site Preparation Schedule -	80 days^a

Crew Size		
14		
Equipment Type^{ab}	No. of Equipment	hr/day
Bore/Drill Rigs	1	8.0
Excavators	2	8.0
Rubber Tired Loaders	2	8.0
Skid Steer Loaders	2	8.0
Tractors/Loaders/Backhoes	4	8.0
Trenchers	2	8.0

Construction Equipment Emission Factors					
Equipment Type^c	CO	NOx	PM10	SOx	VOC
	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
Bore/Drill Rigs	0.472	1.099	0.043	0.329	0.056
Excavators	0.469	1.029	0.055	0.243	0.086
Rubber Tired Loaders	0.421	1.022	0.059	0.221	0.090
Skid Steer Loaders	0.194	0.270	0.022	0.067	0.034
Tractors/Loaders/Backhoes	0.420	0.799	0.083	0.115	0.122
Trenchers	0.357	0.556	0.045	0.127	0.071

Fugitive Dust Clearing Parameters	
Silt Content^d	Moisture Content^d
6.9	7.9

Fugitive Dust Stockpiling Parameters				
Silt Content^d	Precipitation Days^e	Mean Wind Speed Percent	TSP Fraction	Area^f (acres)
6.9	10	100	0.5	0.1

Fugitive Dust Material Handling					
Aerodynamic Particle Size Multiplier^h	Mean Wind Speedⁱ	Moisture Content^d	Dirt Handled^a	Debris Handled^a	Dirt Handled^j
	mph		cy	cy	lb/day
0.35	10	7.9	15,000	0	468,750

Construction Vehicle (Mobile Source) Emission Factors						
	CO	NOx	PM10	SOx	VOC	PM2.5
	lb/mile	lb/mile	lb/mile			lb/mile
Heavy-Duty Truck ^k	0.021949	0.023713	0.000856	0.00002565	0.00299270	0.000739

Construction Worker Number of Trips and Trip Length		
Vehicle	No. of One-Way Trips/Day	One Way Trip Length (miles)
Haul Truck ^l	0	0.00
Water Truck ^m	3	12.5

Incremental Increase in Onsite Combustion Emissions from Construction Equipment					
Equation: Emission Factor (lb/BHP-hr) x No. of Equipment x Work Day (hr/day) x Equipment rating (hp) x Load Factor (%/100) = Onsite Construction Emissions (lb/day)					
Equipment Type	CO	NOx	PM10	SOx	VOC
	lb/day	lb/day	lb/day	lb/hr	lb/hr
Bore/Drill Rigs	3.78	8.79	0.34	2.63	0.45
Excavators	7.50	16.46	0.88	3.89	1.38
Rubber Tired Loaders	6.74	16.35	0.94	3.54	1.44
Skid Steer Loaders	3.10	4.32	0.35	1.07	0.54
Tractors/Loaders/Backhoes	13.44	25.57	2.66	3.68	3.90
Trenchers	5.71	8.90	0.72	2.03	1.14
Total	40.3	80.4	5.9	16.8	8.8

Incremental Increase in Fugitive Dust Emissions from Construction Operations		
Equations:		
Clearing ⁿ : PM10 Emissions (lb/day) = 0.75 x (silt content ^{1.5})/(moisture content ^{1.4}) x hours operated (hr/day) x (1 - control efficiency)		
Storage Piles ^o : PM10 Emissions (lb/day) = 1.7 x (silt content/1.5) x ((365-precipitation days)/235) x wind speed percent/15 x TSP fraction x Area x (1 - control efficiency)		
Material Handling ^p : PM10 Emissions (lb/day) = (0.0032 x aerodynamic particle size multiplier x (wind speed (mph)/5) ^{1.3} /(moisture content/2) ^{1.4} x dirt handled (lb/day)/2,000 (lb/ton) (1 - control efficiency)		
Description	Control Efficiency	PM10^q
	%	lb/day
Clearing	68	1.93

Site Prep

Storage Piles	68	1.26
Material Handling	68	0.03
Total		3.22

Incremental Increase in Onsite Combustion Emissions from Onroad Mobile Vehicles

Equation: Emission Factor (lb/mile) x No. of One-Way Trips/Day x 2 x Trip length (mile) = Mobile Emissions (lb/day)

Vehicle	CO lb/day	NOx lb/day	PM10 lb/day	SOx lb/day	VOC lb/day	PM2.5 lb/day
Haul Truck	0.00	0.00	0.00	0.00	0.00	0.00
Water Truck	1.65	1.78	0.06	0	0.22	0.06
Total	1.65	1.78	0.06	0.00	0.22	0.06

Total Incremental Localized Emissions from Construction Activities

Sources	CO lb/day	NOx lb/day	PM10 lb/day	SOx lb/day	VOC lb/day
On-site Emissions	41.9	82.2	9.2	16.8	9.1

Combustion and Fugitive Summary

	PM2.5 Fraction ^s	PM10 lb/day	PM2.5 lb/day
Combustion	0.92	6.0	5.5
Fugitive	0.21	3.2	0.7
Total		9.2	6.2

Notes:

- Based on builders general construction schedule.
- Equipment Emission Factors (EFs) from "Off-Road Model EF" worksheet equipment name might be modified to match sheet to look up EFs automatically
- SCAB values provided by the ARB, Aug 2004. Assumed all equipment is diesel fueled.
- USEPA, AP-42, July 1998, Table 11.9-3 Typical Values for Corection Factors Applicable to the Predictive Emission Factor Equations
- Table A9-9-E2, SCAQMD CEQA Air Quality Handbook, 1993
- Mean wind speed percent - percent of time mean wind speed exceeds 12 mph
- Assumed storage piles are 0.21 acres in size
- USEPA, AP-42, Nov 2006, Section 13.2.4 Aggretrate Handling and Storage Piles, p 13.2.4-3 Aerodynamic particle size multiplier for < 10 µm
- Mean wind speed - maximum of daily average wind speeds reported in 1981 meteorological data.
- Assuming 15,000 cubic yards of dirt handled [(15,000 cyd x 2,500 lb/cyd)/80 days = 468,750 lb/day]
- CARB, EMFAC2007 (version 2.3) Burden Model, Winter 2008, 75 F, 40% RH: EF, lb/yr = (EF, ton/yr x 2,000 lb/ton)/VMT
- No net import or export of material from site
- Assumed six foot wide water truck traverses over 394,575 square feet of disturbed area
- USEPA, AP-42, July 1998, Table 11.9-1, Equation for bulldozer, overburden ≤ 10 µm
- USEPA, AP-42, Nov 2006, Section 13.2.4 Aggretrate Handling and Storage Piles, Equation 1
- USEPA, Fugitive Dust Background Document and Technical Information Document for Best Available Control Measures, Sept 1992, EPA-450/2-92-004, Equation 2-12
- Includes watering at least three times a day per Rule 403 (68% control efficiency).
- AVAQMD significance thresholds
- ARB's CEIDARS database PM2.5 fractions - conctruction dust category for fugitive and diesel vehicle exhaust category for combustion.

Building

Construction Activity	
Building	394,575 Square Foot Structure ^a
Construction Schedule	120

Crew Size		
120		
Equipment Type^{a,b}	No. of Equipment	hr/day
Cranes	2	8.0
Forklifts	4	8.0
Rough Terrain Forklifts	4	8.0
Tractors/Loaders/Backhoes	4	8.0
Welders	2	8.0

Construction Equipment Combustion Emission Factors					
Equipment Type^c	CO	NOx	PM10	SOx	VOC
	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
Cranes	0.350	0.941	0.049	0.196	0.080
Forklifts	0.254	0.432	0.048	0.000	0.074
Rough Terrain Forklifts	0.442	0.754	0.067	0.150	0.090
Tractors/Loaders/Backhoes	0.420	0.799	0.083	0.115	0.122
Welders	0.230	0.311	0.033	0.000	0.077

Construction Vehicle (Mobile Source) Emission Factors						
	CO	NOx	PM10	SOx	VOC	PM2.5
	lb/mile	lb/mile	lb/mile	lb/mile	lb/mile	lb/mile
Heavy-Duty Truck ^d	0.021949	0.023713	0.000856	0.00002565	0.00299270	0.000739

Construction Worker Number of Trips and Trip Length		
Vehicle	No. of One-Way Trips/Day	Trip Length (miles)
Haul Truck ^d	0	0.24
Flatbed Truck ^e	0	0.24
Water Truck ^f	0	6.4

Incremental Increase in Onsite Combustion Emissions from Construction Equipment					
Equation: Emission Factor (lb/BHP-hr) x No. of Equipment x Work Day (hr/day) x Equipment rating (hp) x Load Factor (%/100) = Onsite Construction Emissions (lb/day)					
Equipment Type	CO	NOx	PM10	SOx	VOC
	lb/day	lb/day	lb/day	lb/day	lb/day
Cranes	5.60	15.06	0.78	3.14	1.28
Forklifts	8.13	13.82	1.54	0.00	2.37
Rough Terrain Forklifts	14.14	24.13	2.14	4.80	2.88
Tractors/Loaders/Backhoes	13.44	25.57	2.66	3.68	3.90
Welders	3.68	4.98	0.53	0.00	1.23
Total	45.0	83.6	7.6	11.6	11.7

Incremental Increase in Onsite Combustion Emissions from Onroad Mobile Vehicles						
Equation: Emission Factor (lb/mile) x No. of One-Way Trips/Day x 2 x Trip length (mile) = Mobile Emissions (lb/day)						
Vehicle	CO	NOx	PM10	SOx	VOC	PM2.5
	lb/day	lb/day	lb/day	lb/day	lb/day	lb/day
Haul Truck	0.00	0.00	0.00	0.00	0.00	0.00
Flatbed Truck	0.00	0.00	0.00	0.00	0.00	0.00
Water Truck	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00

Total Incremental Combustion Emissions from Construction Activities					
Sources	CO	NOx	PM10	SOx	VOC
	lb/day	lb/day	lb/day	lb/day	lb/day
On-Site Emissions	45.0	83.6	7.6	11.6	11.7

Combustion and Fugitive Summary			
	PM2.5 Fraction^h	PM10	PM2.5
		lb/day	lb/day
Combustion	0.92	7.6	7.0
Fugitive	0.21	0	0
Total		7.6	7.0

- Notes:**
- a) Based on builders general construction schedule.
 - b) Equipment Emission Factors (EFs) from "Off-Road Model EF" worksheet equipment name might be modified to match sheet to look up EFs automatically
 - c) SCAB values provided by the ARB, Aug 2004. Assumed all equipment is diesel fueled.
 - d) CARB, EMFAC2002 (version 2.2) Burden Model, Winter 2005, 75 F, 40% RH: EF, lb/yr = (EF, ton/yr x 2,000 lb/ton)/VMT
 - e) Assumed haul truck travels 0.29 miles through facility
 - f) Assumed six foot wide water truck traverses over 200,000 square feet of disturbed area
 - g) AVAQMD significance thresholds
 - h) ARB's CEIDARS database PM2.5 fractions - construction dust category for fugitive and diesel vehicle exhaust category for combustion.

Asphalt

Construction Activity	
Asphalt Paving/finishing	
Construction Schedule -	972250 Square feet to be paved
	38 days ^a

Crew Size		
10		
Equipment Type^{a,b}	No. of Equipment	hr/day
Graders	2	8.0
Pavers	1	8.0
Paving Equipment	4	8.0
Rubber Tired Loaders	2	8.0

Construction Equipment Combustion Emission Factors					
	CO	NOx	PM10	SOx	VOC
Equipment Type^c	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
Graders	0.540	1.331	0.069	0.276	0.112
Pavers	0.429	0.745	0.053	0.165	0.086
Paving Equipment	0.408	0.885	0.065	0.144	0.104
Rubber Tired Loaders	0.421	1.022	0.059	0.221	0.090

Construction Vehicle (Mobile Source) Emission Factors						
	CO	NOx	PM10	SOx	VOC	PM2.5
	lb/mile	lb/mile	lb/mile	lb/mile	lb/mile	lb/mile
Heavy-Duty Truck ^d	0.021949	0.023713	0.000856	0.00002565	0.00299270	0.000739

Construction Worker Number of Trips and Trip Length		
Vehicle	No. of One-Way Trips/Day	Trip Length (miles)
Delivery Truck ^e	10	0.1
Water Truck ^f	3	6.4

Incremental Increase in Onsite Combustion Emissions from Construction Equipment					
Equation: Emission Factor (lb/BHP-hr) x No. of Equipment x Work Day (hr/day) x Equipment rating (hp) x Load Factor (%/100) = Onsite Construction Emissions (lb/day)					
	CO	NOx	PM10	SOx	VOC
Equipment Type	lb/day	lb/day	lb/day	lb/day	lb/day
Graders	8.64	21.30	1.10	4.42	1.79
Pavers	3.43	5.96	0.42	1.32	0.69
Paving Equipment	13.06	28.32	2.08	4.61	3.33
Rubber Tired Loaders	6.74	16.35	0.94	3.54	1.44
Total	31.9	71.9	4.6	13.9	7.2

Incremental Increase in Onsite Combustion Emissions from Onroad Mobile Vehicles						
Equation: Emission Factor (lb/mile) x No. of One-Way Trips/Day x 2 x Trip length (mile) = Mobile Emissions (lb/day)						
	CO	NOx	PM10	SOx	VOC	PM2.5
Vehicle	lb/day	lb/day	lb/day	lb/day	lb/day	lb/day
Delivery Truck	0.04	0.05	0.00	0.00	0.01	0.00
Water Truck	0.84	0.91	0.03	0.00	0.00	0.03
Total	0.88	0.96	0.03	0.00	0.01	0.03

Total Incremental Combustion Emissions from Construction Activities					
	CO	NOx	PM10	SOx	VOC
Sources	lb/day	lb/day	lb/day	lb/day	lb/day
On-Site Emissions	32.7	72.9	4.6	13.9	7.3

Combustion and Fugitive Summary			
	PM2.5 Fraction^h	PM10	PM2.5
		lb/day	lb/day
Combustion		4.6	4.2
Fugitive		0	0
Total		4.6	4.2

- Notes:**
- a) Based on builders general construction schedule.
 - b) Equipment Emission Factors (EFs) from "Off-Road Model EF" worksheet equipment name might be modified to match sheet to look up EFs automatically
 - c) SCAB values provided by the ARB, Aug 2004. Assumed all equipment is diesel fueled.
 - d) CARB, EMFAC2002 (version 2.2) Burden Model, Winter 2005, 75 F, 40% RH: EF, lb/yr = (EF, ton/yr x 2,000 lb/ton)/VMT
 - e) Assumed haul truck travels 0.1 miles through facility
 - f) Assumed six foot wide water truck traverses over 200,000 square feet of disturbed area
 - g) Illustration purpose showing the most stringent LSTs. Please consult App. C of the Methodology Paper for applicable LSTs.
 - h) ARB's CEIDARS database PM2.5 fractions - construction dust category for fugitive and diesel vehicle exhaust category for combustion.

Urbemis 2007 Version 9.2.4

Combined Annual Emissions Reports (Tons/Year)

File Name: \\.\host\Shared Folders\Bryan On My Mac\Desktop\Current Projects\Lane Ranch - Lancaster\URBEMIS\Operational 2012.urb924

Project Name: Lane Ranch

Project Location: South Coast AQMD

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

AREA SOURCE EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (tons/year, unmitigated)	0.59	0.70	2.03	0.00	0.00	0.00	823.18

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (tons/year, unmitigated)	20.27	20.99	212.50	0.18	33.00	6.27	17,910.70
TOTALS (tons/year, mitigated)	19.75	20.47	207.04	0.18	32.15	6.11	17,451.55
Percent Reduction	2.57	2.48	2.57	0.00	2.58	2.55	2.56

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (tons/year, unmitigated)	20.86	21.69	214.53	0.18	33.00	6.27	18,733.88

Both Area and Operational Mitigation must be turned on to get a combined mitigated total.

Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Annual Tons Per Year, Unmitigated

<u>Source</u>	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
Natural Gas	0.05	0.68	0.57	0.00	0.00	0.00	820.67
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscape	0.12	0.02	1.46	0.00	0.00	0.00	2.51
Consumer Products	0.00						

Architectural Coatings	0.42						
TOTALS (tons/year, unmitigated)	0.59	0.70	2.03	0.00	0.00	0.00	823.18

Area Source Changes to Defaults

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Annual Tons Per Year, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Free-standing discount store	6.83	6.74	68.30	0.06	10.41	1.98	5,665.79
Home improvement superstore	5.79	5.97	60.44	0.05	9.41	1.79	5,104.48
Strip mall	6.53	7.20	72.78	0.06	11.52	2.19	6,237.00
Bank (with drive-through)	0.22	0.19	1.93	0.00	0.28	0.05	153.14
Pharmacy/drugstore with drive through	0.90	0.89	9.05	0.01	1.38	0.26	750.29
TOTALS (tons/year, unmitigated)	20.27	20.99	212.50	0.18	33.00	6.27	17,910.70

Operational Settings:

Includes correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2009 Season: Annual

Emfac: Version : Emfac2007 V2.3 Nov 1 2006

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Free-standing discount store		42.71	1000 sq ft	143.88	6,145.11	33,221.92
Home improvement superstore		30.82	1000 sq ft	160.22	4,937.98	30,019.01
Strip mall		79.84	1000 sq ft	68.20	5,445.09	36,766.22
Bank (with drive-through)		42.75	1000 sq ft	5.00	213.75	890.90
Pharmacy/drugstore with drive through		47.12	1000 sq ft	17.27	813.76	4,399.39
					17,555.69	105,297.44

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	60.3	1.4	98.2	0.4
Light Truck < 3750 lbs	16.5	2.7	93.2	4.1
Light Truck 3751-5750 lbs	17.8	0.4	99.6	0.0
Med Truck 5751-8500 lbs	1.3	0.9	99.1	0.0
Lite-Heavy Truck 8501-10,000 lbs	0.2	0.0	81.2	18.8
Lite-Heavy Truck 10,001-14,000 lbs	0.1	0.0	60.0	40.0
Med-Heavy Truck 14,001-33,000 lbs	0.2	0.0	22.2	77.8
Heavy-Heavy Truck 33,001-60,000 lbs	0.1	0.0	0.0	100.0
Other Bus	0.0	0.0	0.0	100.0
Urban Bus	0.2	0.0	0.0	100.0
Motorcycle	1.9	71.4	28.6	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	1.3	0.0	88.9	11.1

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	12.7	7.0	9.5	13.3	7.4	8.9
Rural Trip Length (miles)	17.6	12.1	14.9	15.4	9.6	12.6
Trip speeds (mph)	30.0	30.0	30.0	30.0	30.0	30.0
% of Trips - Residential	32.9	18.0	49.1			

% of Trips - Commercial (by land use)

Free-standing discount store	2.0	1.0	97.0
Home improvement superstore	2.0	1.0	97.0
Strip mall	2.0	1.0	97.0
Bank (with drive-through)	2.0	1.0	97.0
Pharmacy/drugstore with drive through	2.0	1.0	97.0

Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: \\.\host\Shared Folders\Bryan On My Mac\Desktop\Current Projects\Lane Ranch - Lancaster\URBEMIS\Operational 2012 v2.urb924

Project Name: Lane Ranch

Project Location: South Coast AQMD

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

AREA SOURCE EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	3.23	3.84	11.17	0.00	0.03	0.03	4,510.58

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	26.51	18.55	188.06	0.03	2.28	0.63	3,464.00
TOTALS (lbs/day, mitigated)	25.92	18.07	183.22	0.03	2.21	0.61	3,374.83
Percent Reduction	2.23	2.59	2.57	0.00	3.07	3.17	2.57

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	29.74	22.39	199.23	0.03	2.31	0.66	7,974.58

Both Area and Operational Mitigation must be turned on to get a combined mitigated total.

Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

<u>Source</u>	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
Natural Gas	0.27	3.75	3.15	0.00	0.01	0.01	4,496.84
Hearth - No Summer Emissions							
Landscape	0.65	0.09	8.02	0.00	0.02	0.02	13.74
Consumer Products	0.00						

Architectural Coatings	2.31						
TOTALS (lbs/day, unmitigated)	3.23	3.84	11.17	0.00	0.03	0.03	4,510.58

Area Source Changes to Defaults

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Free-standing discount store	9.31	6.46	65.44	0.01	0.73	0.20	1,174.39
Home improvement superstore	7.85	5.22	52.94	0.01	0.65	0.18	978.55
Strip mall	7.81	5.79	58.76	0.01	0.78	0.21	1,117.47
Bank (with drive-through)	0.32	0.22	2.25	0.00	0.02	0.01	38.07
Pharmacy/drugstore with drive through	1.22	0.86	8.67	0.00	0.10	0.03	155.52
TOTALS (lbs/day, unmitigated)	26.51	18.55	188.06	0.03	2.28	0.63	3,464.00

Operational Settings:

Includes correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2009 Temperature (F): 80 Season: Summer

Emfac: Version : Emfac2007 V2.3 Nov 1 2006

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Free-standing discount store		42.71	1000 sq ft	143.88	6,145.11	370.24
Home improvement superstore		30.82	1000 sq ft	160.22	4,937.98	334.55
Strip mall		79.84	1000 sq ft	68.20	5,445.09	409.74
Bank (with drive-through)		42.75	1000 sq ft	5.00	213.75	9.93
Pharmacy/drugstore with drive through		47.12	1000 sq ft	17.27	813.76	49.03
					17,555.69	1,173.49

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	60.3	1.4	98.2	0.4
Light Truck < 3750 lbs	16.5	2.7	93.2	4.1
Light Truck 3751-5750 lbs	17.8	0.4	99.6	0.0
Med Truck 5751-8500 lbs	1.3	0.9	99.1	0.0
Lite-Heavy Truck 8501-10,000 lbs	0.2	0.0	81.2	18.8
Lite-Heavy Truck 10,001-14,000 lbs	0.1	0.0	60.0	40.0
Med-Heavy Truck 14,001-33,000 lbs	0.2	0.0	22.2	77.8
Heavy-Heavy Truck 33,001-60,000 lbs	0.1	0.0	0.0	100.0
Other Bus	0.0	0.0	0.0	100.0
Urban Bus	0.2	0.0	0.0	100.0
Motorcycle	1.9	71.4	28.6	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	1.3	0.0	88.9	11.1

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commuter	Non-Work	Customer
Urban Trip Length (miles)	0.1	0.1	0.1	0.1	0.1	0.1
Rural Trip Length (miles)	17.6	12.1	14.9	15.4	9.6	12.6
Trip speeds (mph)	30.0	30.0	30.0	30.0	30.0	30.0
% of Trips - Residential	32.9	18.0	49.1			

% of Trips - Commercial (by land use)

Free-standing discount store	2.0	1.0	97.0
Home improvement superstore	2.0	1.0	97.0
Strip mall	2.0	1.0	97.0
Bank (with drive-through)	2.0	1.0	97.0
Pharmacy/drugstore with drive through	2.0	1.0	97.0

Control Pathway

ISCST3

Dispersion Options

Titles Lane Ranch - Lancaster NOx and CO	
Dispersion Options <input type="checkbox"/> Regulatory Default <input checked="" type="checkbox"/> Non-Default Options	Dispersion Coefficient Urban
<input type="checkbox"/> No stack-tip downwash <input type="checkbox"/> Missing data processing routine <input checked="" type="checkbox"/> By-pass the calms processing routine <input type="checkbox"/> Gradual plume rise <input type="checkbox"/> No buoyancy-included dispersion <input type="checkbox"/> Vertical term adjustment if HE > ZI <input type="checkbox"/> TOXICS	Output Type <input checked="" type="checkbox"/> Concentration <input type="checkbox"/> Total Deposition (Dry & Wet) <input type="checkbox"/> Dry Deposition <input type="checkbox"/> Wet Deposition
<input type="checkbox"/> SCIM (Sampled Chronological Input Model) <input type="checkbox"/> Gas Dry Deposition <input type="checkbox"/> Optimized Area Source and Dry Depletion Algorithms <input type="checkbox"/> Season by Hour-of-Day Output Option	Plume Depletion <input type="checkbox"/> Dry Removal <input type="checkbox"/> Wet Removal

Pollutant / Averaging Time / Terrain Options

Pollutant Type OTHER - 'NOX_CO	Exponential Decay <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Averaging Time Options Hours <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 6 <input checked="" type="checkbox"/> 8 <input type="checkbox"/> 12 <input type="checkbox"/> 24 <input type="checkbox"/> Month <input type="checkbox"/> Period <input type="checkbox"/> Annual	Terrain Height Options <input type="checkbox"/> Flat <input checked="" type="checkbox"/> Elevated SO: Meters RE: Meters TG: Meters
Flagpole Receptors <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Default Height = 2.00 m	Terrain Calculation Algorithms Simple + Complex Terrain

Meteorology Pathway

ISCST3

Met Input Data

Meteorological Input Data File and Format			
Filename:	C:\Data\Met\LANCASTR.ASC		
Format Type:	Default ASCII Format		
Anemometer Height		Optional Wind Direction	
Height = 10.00 [m]		Rotation [deg]:	
Surface Meteorological Station		Upper Air Meteorological Station	
Station No.:	51117	Location [m] (Optional):	
Year:	1981	X Coord.:	
Station Name:		Y Coord.:	
Station No.:	99999	Location [m] (Optional):	
Year:	1981	X Coord.:	
Station Name:		Y Coord.:	

Data Period

Read All Met. File?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Wind Speed Categories

Stability Category	Wind Speed [m/s]	Stability Category	Wind Speed [m/s]
A	1.54	D	8.23
B	3.09	E	10.8
C	5.14	F	No Upper Bound

Source Pathway - Source Inputs

ISCST3

Line Sources

Source Type	Source ID	Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
LINE	SLINE1	50.00	0.20000		936706.66	3845685.29	738.69	5.00
			0.20000		936738.73	3845295.34	743.75	5.00
	SLINE2	50.00	0.20000		936787.08	3845689.90	738.69	5.00
			0.20000		936819.15	3845299.95	743.48	5.00
	SLINE3	50.00	0.20000		936870.41	3845694.36	738.71	5.00
			0.20000		936902.48	3845304.41	743.27	5.00
	SLINE4	50.00	0.20000		936948.41	3845698.53	738.71	5.00
			0.20000		936980.48	3845308.58	743.32	5.00
	SLINE5	50.00	0.20000		937026.29	3845702.70	738.76	5.00
			0.20000		937058.36	3845312.75	743.29	5.00

Source Pathway - Source Inputs

ISCST3

Volume Sources Generated from Line Sources

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimension [m]	Initial Vertical Dimension [m]
SLINE1	L0000446	936708.74	3845660.33	739.01	5.00	0.04000	50.00		39.69	2.33
	L0000447	936715.73	3845575.29	740.12	5.00	0.04000	50.00		39.69	2.33
	L0000448	936722.72	3845490.25	741.22	5.00	0.04000	50.00		39.69	2.33
	L0000449	936729.71	3845405.21	742.32	5.00	0.04000	50.00		39.69	2.33
	L0000450	936736.70	3845320.17	743.43	5.00	0.04000	50.00		39.69	2.33
SLINE2	L0000451	936789.11	3845665.08	739.00	5.00	0.04000	50.00		39.69	2.33
	L0000452	936796.10	3845580.04	740.04	5.00	0.04000	50.00		39.69	2.33
	L0000453	936803.09	3845495.00	741.08	5.00	0.04000	50.00		39.69	2.33
	L0000454	936810.09	3845409.96	742.13	5.00	0.04000	50.00		39.69	2.33
	L0000455	936817.08	3845324.92	743.17	5.00	0.04000	50.00		39.69	2.33
SLINE3	L0000456	936872.49	3845669.33	739.00	5.00	0.04000	50.00		39.66	2.33
	L0000457	936879.48	3845584.35	740.00	5.00	0.04000	50.00		39.66	2.33
	L0000458	936886.47	3845499.38	740.99	5.00	0.04000	50.00		39.66	2.33
	L0000459	936893.46	3845414.40	741.98	5.00	0.04000	50.00		39.66	2.33
	L0000460	936900.45	3845329.42	742.98	5.00	0.04000	50.00		39.66	2.33
SLINE5	L0000461	937028.36	3845677.83	739.05	5.00	0.04000	50.00		39.69	2.33
	L0000462	937035.35	3845592.79	740.04	5.00	0.04000	50.00		39.69	2.33
	L0000463	937042.34	3845507.75	741.02	5.00	0.04000	50.00		39.69	2.33
	L0000464	937049.34	3845422.71	742.01	5.00	0.04000	50.00		39.69	2.33
	L0000465	937056.33	3845337.67	743.00	5.00	0.04000	50.00		39.69	2.33
SLINE4	L0000466	936950.49	3845673.58	739.00	5.00	0.04000	50.00		39.69	2.33
	L0000467	936957.48	3845588.54	740.01	5.00	0.04000	50.00		39.69	2.33
	L0000468	936964.47	3845503.50	741.02	5.00	0.04000	50.00		39.69	2.33
	L0000469	936971.46	3845418.46	742.02	5.00	0.04000	50.00		39.69	2.33
	L0000470	936978.45	3845333.42	743.03	5.00	0.04000	50.00		39.69	2.33

Receptor Pathway

ISCST3

Receptor Networks

Note: Terrain Elevations and Flagpole Heights for Network Grids are in Page RE2 - 1 (If applicable)
Generated Discrete Receptors for Multi-Tier (Risk) Grid and Receptor Locations for Fenceline Grid are in Page RE3 - 1 (If applicable)

Uniform Cartesian Grid

Option not in use

Non-Uniform Cartesian Grid

Option not in use

Uniform Polar Grid

Option not in use

Non-Uniform Polar Grid

Option not in use

Discrete Receptors

Discrete Cartesian Receptors

Record Number	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Group Name (Optional)	Terrain Elevations (Optional)	Flagpole Heights [m] (Optional)
1	937084.64	3845289.33	FENCEGRD	743.54	
2	937036.98	3845286.96	FENCEGRD	743.53	
3	936989.32	3845284.60	FENCEGRD	743.53	
4	936941.66	3845282.23	FENCEGRD	743.52	
5	936894.00	3845279.87	FENCEGRD	743.61	
6	936846.34	3845277.50	FENCEGRD	743.87	
7	936798.68	3845275.13	FENCEGRD	743.93	
8	936751.02	3845272.77	FENCEGRD	744.17	
9	936703.36	3845270.40	FENCEGRD	744.20	
10	937113.21	3845251.85	FENCEGRD	743.93	
11	937148.78	3845291.63	FENCEGRD	743.55	
12	937087.11	3845239.39	FENCEGRD	744.04	
13	937039.46	3845237.02	FENCEGRD	744.04	
14	936991.80	3845234.66	FENCEGRD	744.05	
15	936944.14	3845232.29	FENCEGRD	744.33	
16	936896.48	3845229.93	FENCEGRD	744.33	
17	936848.82	3845227.56	FENCEGRD	744.63	
18	936801.16	3845225.20	FENCEGRD	744.92	
19	936753.50	3845222.83	FENCEGRD	745.12	
20	936705.84	3845220.46	FENCEGRD	745.21	

Receptor Pathway

ISCST3

21	937132.67	3845158.89	FENCEGRD	744.88	
22	937173.26	3845178.27	FENCEGRD	744.71	
23	937228.59	3845240.15	FENCEGRD	744.15	
24	937243.32	3845282.65	FENCEGRD	744.00	
25	937092.07	3845139.51	FENCEGRD	745.13	
26	937044.41	3845137.15	FENCEGRD	745.36	
27	936996.76	3845134.78	FENCEGRD	745.44	
28	936949.10	3845132.42	FENCEGRD	745.65	
29	936901.44	3845130.05	FENCEGRD	745.75	
30	936853.78	3845127.68	FENCEGRD	746.00	
31	936806.12	3845125.32	FENCEGRD	746.25	
32	936758.46	3845122.95	FENCEGRD	746.31	
33	936710.80	3845120.59	FENCEGRD	746.39	
34	937139.27	3844957.56	FENCEGRD	747.23	
35	937176.55	3844975.35	FENCEGRD	746.80	
36	937213.82	3844993.15	FENCEGRD	746.56	
37	937251.10	3845010.95	FENCEGRD	746.15	
38	937288.38	3845028.74	FENCEGRD	745.99	
39	937325.66	3845046.54	FENCEGRD	745.83	
40	937376.47	3845103.37	FENCEGRD	745.59	
41	937390.01	3845142.39	FENCEGRD	745.52	
42	937403.54	3845181.42	FENCEGRD	745.38	
43	937417.07	3845220.45	FENCEGRD	745.11	
44	937430.61	3845259.48	FENCEGRD	744.96	
45	937444.14	3845298.51	FENCEGRD	745.00	
46	937101.99	3844939.76	FENCEGRD	747.60	
47	937054.33	3844937.39	FENCEGRD	747.99	
48	937006.67	3844935.03	FENCEGRD	748.24	
49	936959.01	3844932.66	FENCEGRD	748.29	
50	936911.35	3844930.30	FENCEGRD	748.59	
51	936863.69	3844927.93	FENCEGRD	748.76	
52	936816.04	3844925.56	FENCEGRD	748.94	
53	936768.38	3844923.20	FENCEGRD	749.40	
54	936720.72	3844920.83	FENCEGRD	749.78	
55	937167.37	3844459.75	FENCEGRD	755.51	
56	937207.96	3844479.13	FENCEGRD	754.87	
57	937248.56	3844498.51	FENCEGRD	754.38	
58	937289.15	3844517.89	FENCEGRD	753.82	
59	937329.74	3844537.27	FENCEGRD	753.09	

Receptor Pathway

ISCST3

60	937370.33	3844556.65	FENCEGRD	752.59	
61	937410.93	3844576.03	FENCEGRD	752.09	
62	937451.52	3844595.40	FENCEGRD	751.81	
63	937492.11	3844614.78	FENCEGRD	751.71	
64	937532.70	3844634.16	FENCEGRD	751.37	
65	937573.29	3844653.54	FENCEGRD	751.18	
66	937613.89	3844672.92	FENCEGRD	751.00	
67	937654.48	3844692.30	FENCEGRD	750.89	
68	937695.07	3844711.68	FENCEGRD	751.14	
69	937750.40	3844773.55	FENCEGRD	750.97	
70	937765.14	3844816.05	FENCEGRD	750.57	
71	937779.87	3844858.55	FENCEGRD	750.06	
72	937794.61	3844901.05	FENCEGRD	749.72	
73	937809.35	3844943.55	FENCEGRD	749.30	
74	937824.08	3844986.04	FENCEGRD	749.00	
75	937838.82	3845028.54	FENCEGRD	748.76	
76	937853.56	3845071.04	FENCEGRD	748.48	
77	937868.29	3845113.54	FENCEGRD	748.23	
78	937883.03	3845156.04	FENCEGRD	747.81	
79	937897.77	3845198.53	FENCEGRD	747.38	
80	937912.50	3845241.03	FENCEGRD	747.27	
81	937927.24	3845283.53	FENCEGRD	746.85	
82	937941.98	3845326.03	FENCEGRD	746.43	
83	937126.78	3844440.37	FENCEGRD	756.27	
84	937079.12	3844438.01	FENCEGRD	756.44	
85	937031.46	3844435.64	FENCEGRD	756.61	
86	936983.80	3844433.28	FENCEGRD	756.86	
87	936936.14	3844430.91	FENCEGRD	756.95	
88	936888.48	3844428.55	FENCEGRD	757.19	
89	936840.83	3844426.18	FENCEGRD	757.49	
90	936793.17	3844423.81	FENCEGRD	757.76	
91	936745.51	3844421.45	FENCEGRD	757.93	
92	936677.17	3845293.94	FENCEGRD	743.85	
93	936674.38	3845342.40	FENCEGRD	743.01	
94	936671.60	3845390.87	FENCEGRD	742.26	
95	936668.81	3845439.34	FENCEGRD	741.46	
96	936666.03	3845487.80	FENCEGRD	740.67	
97	936663.24	3845536.27	FENCEGRD	740.17	
98	936660.46	3845584.74	FENCEGRD	739.68	

Receptor Pathway

ISCST3

99	936657.67	3845633.20	FENCEGRD	739.19	
100	936654.89	3845681.67	FENCEGRD	738.70	
101	936639.63	3845265.32	FENCEGRD	744.22	
102	936678.92	3845230.02	FENCEGRD	744.98	
103	936627.25	3845291.07	FENCEGRD	743.73	
104	936624.46	3845339.54	FENCEGRD	743.01	
105	936621.68	3845388.00	FENCEGRD	742.26	
106	936618.89	3845436.47	FENCEGRD	741.46	
107	936616.11	3845484.94	FENCEGRD	740.66	
108	936613.33	3845533.40	FENCEGRD	740.17	
109	936610.54	3845581.87	FENCEGRD	739.68	
110	936607.76	3845630.34	FENCEGRD	739.19	
111	936604.97	3845678.80	FENCEGRD	738.60	
112	936546.67	3845245.29	FENCEGRD	744.49	
113	936565.92	3845205.24	FENCEGRD	745.29	
114	936627.05	3845150.32	FENCEGRD	746.19	
115	936668.93	3845135.45	FENCEGRD	746.33	
116	936527.41	3845285.33	FENCEGRD	743.54	
117	936524.63	3845333.80	FENCEGRD	742.74	
118	936521.84	3845382.27	FENCEGRD	742.01	
119	936519.06	3845430.73	FENCEGRD	741.15	
120	936516.27	3845479.20	FENCEGRD	740.65	
121	936513.49	3845527.67	FENCEGRD	740.05	
122	936510.71	3845576.13	FENCEGRD	739.37	
123	936507.92	3845624.60	FENCEGRD	738.88	
124	936505.14	3845673.07	FENCEGRD	737.78	
125	936348.37	3845230.95	FENCEGRD	744.60	
126	936369.00	3845188.04	FENCEGRD	745.46	
127	936389.63	3845145.13	FENCEGRD	746.09	
128	936410.26	3845102.23	FENCEGRD	746.85	
129	936430.89	3845059.32	FENCEGRD	747.53	
130	936496.38	3845000.48	FENCEGRD	748.54	
131	936541.25	3844984.55	FENCEGRD	748.87	
132	936586.12	3844968.62	FENCEGRD	749.25	
133	936630.98	3844952.69	FENCEGRD	749.47	
134	936675.85	3844936.76	FENCEGRD	749.68	
135	936327.74	3845273.86	FENCEGRD	743.98	
136	936324.96	3845322.33	FENCEGRD	743.22	
137	936322.17	3845370.80	FENCEGRD	742.48	

Receptor Pathway

ISCST3

138	936319.39	3845419.26	FENCEGRD	741.72	
139	936316.60	3845467.73	FENCEGRD	740.96	
140	936313.82	3845516.20	FENCEGRD	740.24	
141	936311.04	3845564.66	FENCEGRD	739.65	
142	936308.25	3845613.13	FENCEGRD	738.90	
143	936305.47	3845661.60	FENCEGRD	737.88	
144	935849.19	3845202.27	FENCEGRD	747.52	
145	935869.82	3845159.36	FENCEGRD	748.21	
146	935890.45	3845116.46	FENCEGRD	748.93	
147	935911.08	3845073.55	FENCEGRD	749.35	
148	935931.71	3845030.64	FENCEGRD	750.05	
149	935952.34	3844987.73	FENCEGRD	750.94	
150	935972.97	3844944.82	FENCEGRD	751.47	
151	935993.60	3844901.91	FENCEGRD	752.49	
152	936014.23	3844859.00	FENCEGRD	753.38	
153	936034.86	3844816.09	FENCEGRD	754.22	
154	936055.49	3844773.18	FENCEGRD	755.23	
155	936076.12	3844730.27	FENCEGRD	755.94	
156	936096.75	3844687.36	FENCEGRD	756.65	
157	936162.24	3844628.53	FENCEGRD	757.21	
158	936207.11	3844612.60	FENCEGRD	757.22	
159	936251.97	3844596.67	FENCEGRD	757.29	
160	936296.84	3844580.74	FENCEGRD	757.39	
161	936341.71	3844564.81	FENCEGRD	757.32	
162	936386.57	3844548.88	FENCEGRD	757.41	
163	936431.44	3844532.95	FENCEGRD	757.32	
164	936476.31	3844517.02	FENCEGRD	757.43	
165	936521.17	3844501.09	FENCEGRD	757.66	
166	936566.04	3844485.16	FENCEGRD	757.80	
167	936610.91	3844469.23	FENCEGRD	757.83	
168	936655.77	3844453.31	FENCEGRD	757.76	
169	936700.64	3844437.38	FENCEGRD	758.00	
170	935828.57	3845245.18	FENCEGRD	746.80	
171	935825.78	3845293.65	FENCEGRD	746.02	
172	935823.00	3845342.12	FENCEGRD	745.12	
173	935820.21	3845390.58	FENCEGRD	744.24	
174	935817.43	3845439.05	FENCEGRD	743.48	
175	935814.64	3845487.52	FENCEGRD	742.76	
176	935811.86	3845535.98	FENCEGRD	742.17	

Receptor Pathway

ISCST3

177	935809.07	3845584.45	FENCEGRD	741.33	
178	935806.29	3845632.92	FENCEGRD	740.40	
179	936678.43	3845708.06	FENCEGRD	738.44	
180	936725.85	3845710.76	FENCEGRD	738.44	
181	936773.26	3845713.45	FENCEGRD	738.45	
182	936820.67	3845716.14	FENCEGRD	738.45	
183	936868.09	3845718.83	FENCEGRD	738.45	
184	936915.50	3845721.52	FENCEGRD	738.45	
185	936962.91	3845724.22	FENCEGRD	738.45	
186	937010.33	3845726.91	FENCEGRD	738.45	
187	937057.74	3845729.60	FENCEGRD	738.72	
188	936649.74	3845745.51	FENCEGRD	738.04	
189	936614.42	3845705.92	FENCEGRD	738.25	
190	936675.60	3845757.98	FENCEGRD	737.94	
191	936723.01	3845760.68	FENCEGRD	738.23	
192	936770.42	3845763.37	FENCEGRD	738.23	
193	936817.84	3845766.06	FENCEGRD	738.23	
194	936865.25	3845768.75	FENCEGRD	738.19	
195	936912.67	3845771.44	FENCEGRD	737.94	
196	936960.08	3845774.13	FENCEGRD	737.94	
197	937007.49	3845776.83	FENCEGRD	737.95	
198	937054.91	3845779.52	FENCEGRD	738.08	
199	936629.70	3845838.41	FENCEGRD	737.23	
200	936589.48	3845819.00	FENCEGRD	737.27	
201	936534.55	3845757.42	FENCEGRD	737.28	
202	936519.84	3845715.24	FENCEGRD	737.50	
203	936669.93	3845857.82	FENCEGRD	737.23	
204	936717.34	3845860.52	FENCEGRD	737.26	
205	936764.76	3845863.21	FENCEGRD	737.53	
206	936812.17	3845865.90	FENCEGRD	737.54	
207	936859.58	3845868.59	FENCEGRD	737.31	
208	936907.00	3845871.28	FENCEGRD	737.31	
209	936954.41	3845873.97	FENCEGRD	737.31	
210	937001.83	3845876.67	FENCEGRD	737.31	
211	937049.24	3845879.36	FENCEGRD	737.72	
212	936621.65	3846039.68	FENCEGRD	735.66	
213	936584.71	3846021.85	FENCEGRD	735.80	
214	936547.77	3846004.02	FENCEGRD	735.68	
215	936510.82	3845986.20	FENCEGRD	735.53	

Receptor Pathway

ISCST3

216	936473.88	3845968.37	FENCEGRD	735.59	
217	936436.94	3845950.54	FENCEGRD	735.54	
218	936386.49	3845893.99	FENCEGRD	735.78	
219	936372.99	3845855.25	FENCEGRD	735.85	
220	936359.48	3845816.52	FENCEGRD	736.24	
221	936345.98	3845777.79	FENCEGRD	736.62	
222	936332.47	3845739.06	FENCEGRD	737.01	
223	936318.97	3845700.33	FENCEGRD	737.42	
224	936658.59	3846057.50	FENCEGRD	735.74	
225	936706.01	3846060.19	FENCEGRD	735.79	
226	936753.42	3846062.89	FENCEGRD	735.79	
227	936800.83	3846065.58	FENCEGRD	735.81	
228	936848.25	3846068.27	FENCEGRD	736.10	
229	936895.66	3846070.96	FENCEGRD	736.32	
230	936943.08	3846073.65	FENCEGRD	736.51	
231	936990.49	3846076.34	FENCEGRD	736.97	
232	937037.90	3846079.04	FENCEGRD	737.18	
233	936590.03	3846537.29	FENCEGRD	732.13	
234	936549.80	3846517.88	FENCEGRD	732.13	
235	936509.57	3846498.47	FENCEGRD	732.07	
236	936469.35	3846479.06	FENCEGRD	731.85	
237	936429.12	3846459.64	FENCEGRD	731.91	
238	936388.89	3846440.23	FENCEGRD	731.81	
239	936348.67	3846420.82	FENCEGRD	731.95	
240	936308.44	3846401.41	FENCEGRD	732.08	
241	936268.22	3846382.00	FENCEGRD	731.98	
242	936227.99	3846362.59	FENCEGRD	732.16	
243	936187.76	3846343.18	FENCEGRD	732.33	
244	936147.54	3846323.77	FENCEGRD	732.50	
245	936107.31	3846304.36	FENCEGRD	732.67	
246	936067.08	3846284.95	FENCEGRD	732.85	
247	936012.15	3846223.36	FENCEGRD	733.44	
248	935997.45	3846181.19	FENCEGRD	733.85	
249	935982.74	3846139.01	FENCEGRD	734.27	
250	935968.04	3846096.84	FENCEGRD	734.57	
251	935953.33	3846054.66	FENCEGRD	735.08	
252	935938.63	3846012.49	FENCEGRD	735.52	
253	935923.93	3845970.31	FENCEGRD	735.90	
254	935909.22	3845928.14	FENCEGRD	736.36	

Receptor Pathway

ISCST3

255	935894.52	3845885.96	FENCEGRD	736.85	
256	935879.81	3845843.79	FENCEGRD	737.50	
257	935865.11	3845801.61	FENCEGRD	737.92	
258	935850.40	3845759.44	FENCEGRD	738.56	
259	935835.70	3845717.27	FENCEGRD	739.06	
260	935820.99	3845675.09	FENCEGRD	739.78	
261	936630.25	3846556.70	FENCEGRD	732.40	
262	936677.67	3846559.39	FENCEGRD	732.65	
263	936725.08	3846562.08	FENCEGRD	732.88	
264	936772.49	3846564.77	FENCEGRD	733.13	
265	936819.91	3846567.47	FENCEGRD	733.38	
266	936867.32	3846570.16	FENCEGRD	733.73	
267	936914.73	3846572.85	FENCEGRD	734.01	
268	936962.15	3846575.54	FENCEGRD	734.25	
269	937009.56	3846578.23	FENCEGRD	734.41	
270	937084.11	3845706.19	FENCEGRD	738.88	
271	937087.14	3845657.40	FENCEGRD	739.28	
272	937090.17	3845608.60	FENCEGRD	739.78	
273	937093.20	3845559.81	FENCEGRD	740.28	
274	937096.23	3845511.02	FENCEGRD	740.72	
275	937099.26	3845462.23	FENCEGRD	741.49	
276	937102.29	3845413.43	FENCEGRD	741.99	
277	937105.32	3845364.64	FENCEGRD	742.57	
278	937108.35	3845315.85	FENCEGRD	743.28	
279	937121.48	3845735.01	FENCEGRD	738.95	
280	937081.93	3845770.12	FENCEGRD	738.46	
281	937134.01	3845709.29	FENCEGRD	739.29	
282	937137.04	3845660.49	FENCEGRD	739.51	
283	937140.07	3845611.70	FENCEGRD	740.00	
284	937143.10	3845562.91	FENCEGRD	740.50	
285	937146.13	3845514.12	FENCEGRD	740.98	
286	937149.16	3845465.32	FENCEGRD	741.69	
287	937152.19	3845416.53	FENCEGRD	742.08	
288	937155.22	3845367.74	FENCEGRD	742.78	
289	937158.25	3845318.95	FENCEGRD	743.28	
290	937214.33	3845755.49	FENCEGRD	739.41	
291	937194.84	3845795.50	FENCEGRD	739.13	
292	937133.31	3845850.12	FENCEGRD	738.55	
293	937091.27	3845864.74	FENCEGRD	738.17	

Receptor Pathway

ISCST3

294	937233.82	3845715.48	FENCEGRD	740.00	
295	937236.85	3845666.69	FENCEGRD	740.37	
296	937239.88	3845617.90	FENCEGRD	740.69	
297	937242.91	3845569.11	FENCEGRD	741.18	
298	937245.94	3845520.31	FENCEGRD	741.68	
299	937248.97	3845471.52	FENCEGRD	742.18	
300	937252.00	3845422.73	FENCEGRD	742.67	
301	937255.03	3845373.94	FENCEGRD	743.17	
302	937258.06	3845325.14	FENCEGRD	743.67	
303	937412.55	3845770.74	FENCEGRD	741.28	
304	937391.67	3845813.61	FENCEGRD	740.97	
305	937370.78	3845856.47	FENCEGRD	740.97	
306	937349.90	3845899.34	FENCEGRD	740.66	
307	937329.01	3845942.20	FENCEGRD	740.42	
308	937263.09	3846000.73	FENCEGRD	739.48	
309	937218.05	3846016.39	FENCEGRD	739.44	
310	937173.01	3846032.05	FENCEGRD	739.05	
311	937127.98	3846047.71	FENCEGRD	738.35	
312	937082.94	3846063.38	FENCEGRD	737.61	
313	937433.44	3845727.88	FENCEGRD	741.72	
314	937436.47	3845679.09	FENCEGRD	741.93	
315	937439.50	3845630.29	FENCEGRD	742.41	
316	937442.53	3845581.50	FENCEGRD	742.60	
317	937445.56	3845532.71	FENCEGRD	743.08	
318	937448.59	3845483.92	FENCEGRD	743.31	
319	937451.62	3845435.12	FENCEGRD	743.78	
320	937454.65	3845386.33	FENCEGRD	744.02	
321	937457.68	3845337.54	FENCEGRD	744.78	
322	937911.59	3845801.73	FENCEGRD	741.00	
323	937890.71	3845844.60	FENCEGRD	740.58	
324	937869.82	3845887.46	FENCEGRD	740.01	
325	937848.93	3845930.33	FENCEGRD	739.04	
326	937828.05	3845973.19	FENCEGRD	738.99	
327	937807.16	3846016.06	FENCEGRD	738.75	
328	937786.28	3846058.92	FENCEGRD	738.30	
329	937765.39	3846101.79	FENCEGRD	737.86	
330	937744.51	3846144.65	FENCEGRD	737.60	
331	937723.62	3846187.52	FENCEGRD	737.44	
332	937702.74	3846230.38	FENCEGRD	737.18	

Receptor Pathway

ISCST3

333	937681.85	3846273.25	FENCEGRD	736.61	
334	937660.96	3846316.11	FENCEGRD	736.30	
335	937595.04	3846374.64	FENCEGRD	736.30	
336	937550.01	3846390.30	FENCEGRD	736.11	
337	937504.97	3846405.96	FENCEGRD	735.60	
338	937459.93	3846421.62	FENCEGRD	734.64	
339	937414.89	3846437.28	FENCEGRD	734.65	
340	937369.86	3846452.94	FENCEGRD	734.68	
341	937324.82	3846468.60	FENCEGRD	734.79	
342	937279.78	3846484.27	FENCEGRD	734.61	
343	937234.75	3846499.93	FENCEGRD	734.54	
344	937189.71	3846515.59	FENCEGRD	734.43	
345	937144.67	3846531.25	FENCEGRD	734.38	
346	937099.64	3846546.91	FENCEGRD	734.53	
347	937054.60	3846562.57	FENCEGRD	734.59	
348	937932.48	3845758.87	FENCEGRD	741.73	
349	937935.51	3845710.08	FENCEGRD	742.23	
350	937938.54	3845661.28	FENCEGRD	742.96	
351	937941.57	3845612.49	FENCEGRD	743.67	
352	937944.60	3845563.70	FENCEGRD	744.16	
353	937947.62	3845514.90	FENCEGRD	744.52	
354	937950.65	3845466.11	FENCEGRD	745.01	
355	937953.68	3845417.32	FENCEGRD	745.51	
356	937956.71	3845368.53	FENCEGRD	746.00	

Discrete Polar Receptors

Option not in use

Plant Boundary Receptors

Cartesian Plant Boundary

Primary

Record Number	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Group Name (Optional)	Terrain Elevations (Optional)	Flagpole Heights [m] (Optional)
1	937059.16	3845704.64	FENCEPRI	738.84	
2	937083.40	3845314.30	FENCEPRI	743.28	
3	936702.13	3845295.37	FENCEPRI	743.85	
4	936679.85	3845683.10	FENCEPRI	738.70	

Receptor Pathway

ISCST3

Intermediate

Option not in use

Polar Plant Boundary

Option not in use































Receptor Groups

Record Number	Group ID	Group Description
1	FENCEPRI	Cartesian plant boundary Primary Receptors
2	NPOL1	Receptors generated from Non-Uniform Polar Grid
3	FENCEGRD	Receptors generated from Fenceline Grid

Output Pathway

ISCST3

Tabular Printed Outputs

Short Term Averaging Period	RECTABLE Highest Values Table										MAXTABLE Maximum Values Table	DAYTABLE Daily Values Table
	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th		
ALL												No
1												No
8												No

Output Pathway

ISCST3

Contour Plot Files (PLOTFILE)

Path for PLOTFILES: LRGAS.IS

Averaging Period	Source Group ID	High Value	File Name
1	ALL	1st	01H1GALL.PLT
8	ALL	1st	08H1GALL.PLT

Building Downwash Information

Option not in use

Emission Rate Units for Output

For Concentration

Unit Factor:	1E6
Emission Unit Label:	GRAMS/SEC
Concentration Unit Label:	MICROGRAMS/M**3

Data for Particulates

Option not in use

Data for Gases

Option not in use

Variable Emission Rate

Seasonally Emission Rate Variation

Option not in use

Monthly Emission Rate Variation

Option not in use

Hourly Emission Rate Variation

Option not in use

Wind Speed / Stability Category Emission Rate Variation

Option not in use

Season / Hour-of-Day Emission Rate Variation

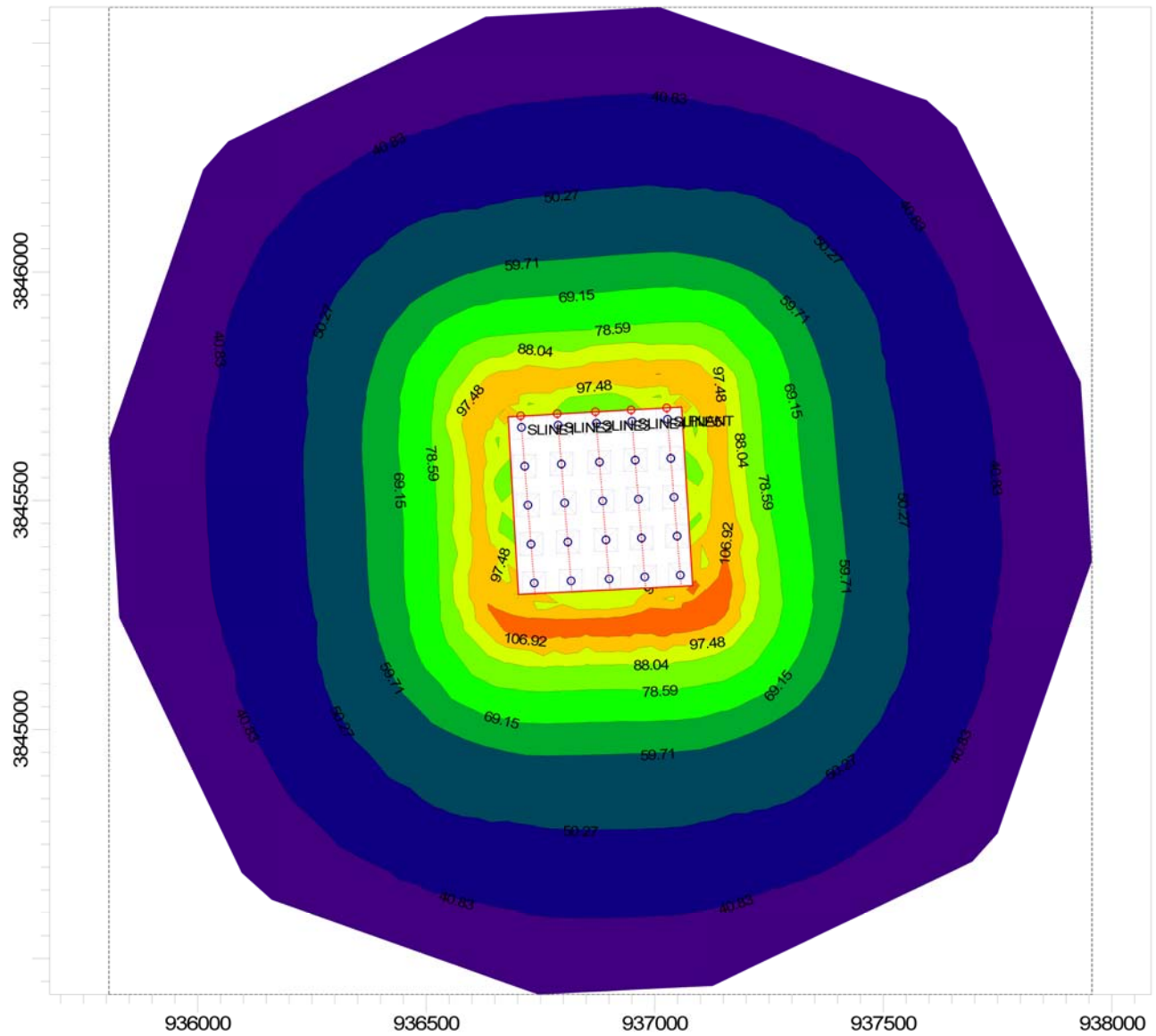
Option not in use

Season / Hour-of-Day / Day-of-Week Emission Rate Variation

Option not in use

PROJECT TITLE:

**Lane Ranch
NOX and CO - 1 hour**



PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL

ug/m³



31.390 40.831 50.272 59.713 69.154 78.595 88.036 97.477 106.918 116.359

COMMENTS:

Unit Emission Factor (1 g/s)

SOURCES:

5

COMPANY NAME:

RECEPTORS:

360

MODELER:

OUTPUT TYPE:

Concentration

SCALE:

1:14,704

0

0.5 km

MAX:

116.35934 ug/m³

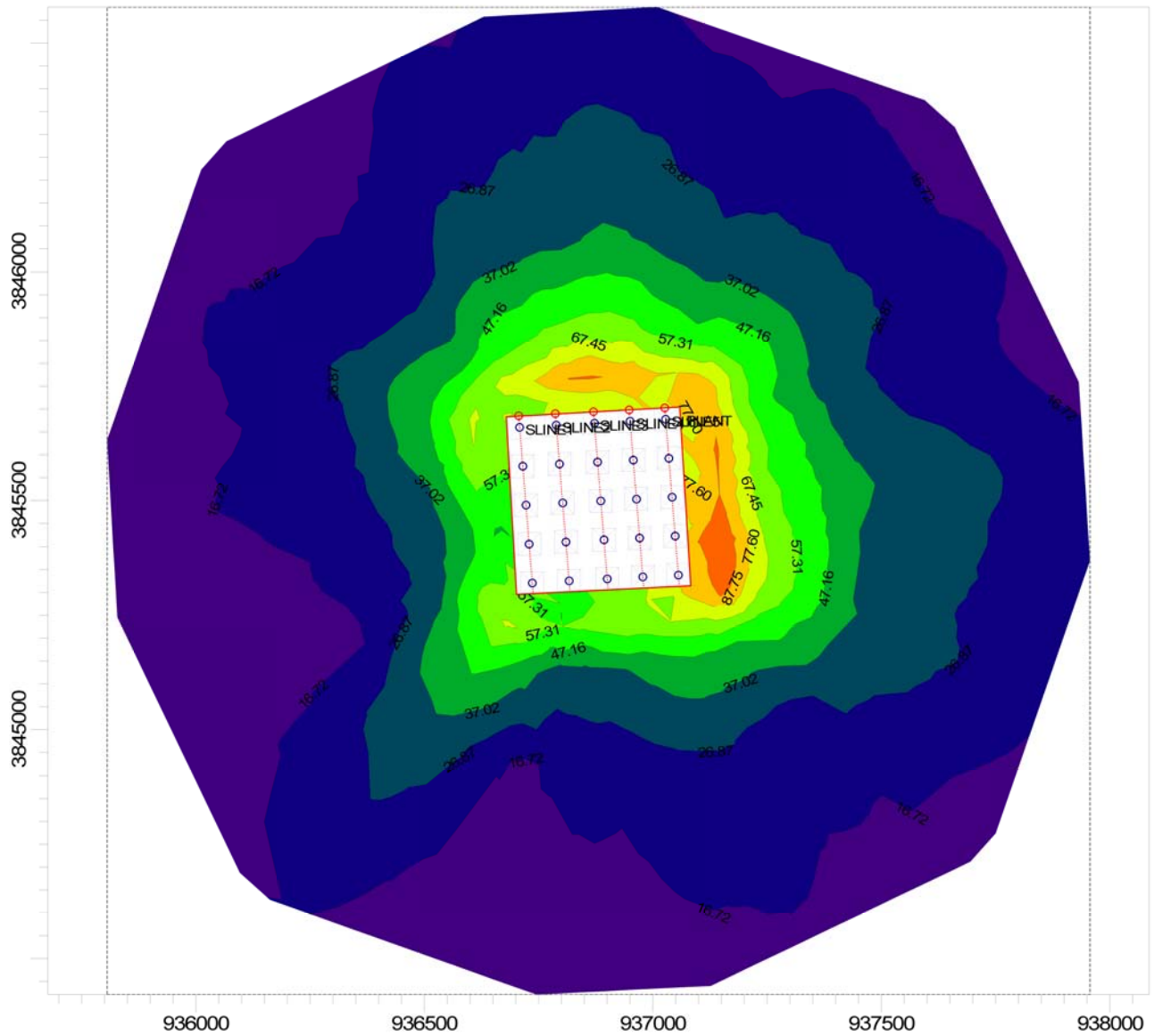
DATE:

11/13/2008

PROJECT NO.:

PROJECT TITLE:

**Lane Ranch
NOX and CO - 8 hour**



PLOT FILE OF HIGH 1ST HIGH 8-HR VALUES FOR SOURCE GROUP: ALL

ug/m³



COMMENTS:
Unit Emission Factor (1 g/s)

SOURCES:
5

COMPANY NAME:

RECEPTORS:
360

MODELER:

OUTPUT TYPE:
Concentration

SCALE: 1:14,704
0 0.5 km

MAX:
97.8918 ug/m³

DATE:
11/13/2008

PROJECT NO.:

Control Pathway

ISCST3

Dispersion Options

Titles Lane Ranch - Lancaster PM10 combustion	
Dispersion Options <input type="checkbox"/> Regulatory Default <input checked="" type="checkbox"/> Non-Default Options	Dispersion Coefficient Urban
<input type="checkbox"/> No stack-tip downwash <input type="checkbox"/> Missing data processing routine <input checked="" type="checkbox"/> By-pass the calms processing routine <input type="checkbox"/> Gradual plume rise <input type="checkbox"/> No buoyancy-included dispersion <input type="checkbox"/> Vertical term adjustment if HE > ZI <input type="checkbox"/> TOXICS	Output Type <input checked="" type="checkbox"/> Concentration <input type="checkbox"/> Total Deposition (Dry & Wet) <input type="checkbox"/> Dry Deposition <input type="checkbox"/> Wet Deposition
<input type="checkbox"/> SCIM (Sampled Chronological Input Model) <input type="checkbox"/> Gas Dry Deposition <input type="checkbox"/> Optimized Area Source and Dry Depletion Algorithms <input type="checkbox"/> Season by Hour-of-Day Output Option	Plume Depletion <input checked="" type="checkbox"/> Dry Removal <input type="checkbox"/> Wet Removal

Pollutant / Averaging Time / Terrain Options

Pollutant Type OTHER - 'PM10	Exponential Decay <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Averaging Time Options Hours <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 6 <input type="checkbox"/> 8 <input type="checkbox"/> 12 <input checked="" type="checkbox"/> 24 <input type="checkbox"/> Month <input type="checkbox"/> Period <input type="checkbox"/> Annual	Terrain Height Options <input type="checkbox"/> Flat <input checked="" type="checkbox"/> Elevated SO: Meters RE: Meters TG: Meters
Flagpole Receptors <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Default Height = 2.00 m	Terrain Calculation Algorithms Simple + Complex Terrain

Meteorology Pathway

ISCST3

Met Input Data

Meteorological Input Data File and Format			
Filename:	C:\Data\Met\DryDep\Deposition MET\lancastr.dep		
Format Type:	Default ASCII Format		
Anemometer Height		Optional Wind Direction	
Height = 10.00 [m]		Rotation [deg]:	
Surface Meteorological Station		Upper Air Meteorological Station	
		Location [m] (Optional):	
Station No.:	51117	X Coord.:	
Year:	1981	Y Coord.:	
Station Name:			
		Location [m] (Optional):	
Station No.:	99999	X Coord.:	
Year:	1981	Y Coord.:	
Station Name:			

Data Period

Read All Met. File?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No





















Wind Speed Categories

Stability Category	Wind Speed [m/s]	Stability Category	Wind Speed [m/s]
A	1.54	D	8.23
B	3.09	E	10.8
C	5.14	F	No Upper Bound

Output Pathway

ISCST3

Tabular Printed Outputs

Short Term Averaging Period	RECTABLE Highest Values Table										MAXTABLE Maximum Values Table	DAYTABLE Daily Values Table
	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th		
ALL												No
24												No

Output Pathway

ISCST3

Contour Plot Files (PLOTFILE)

Path for PLOTFILES: LRPM10V.IS

Averaging Period	Source Group ID	High Value	File Name
24	ALL	1st	24H1GALL.PLT

Receptor Networks

Note: Terrain Elevations and Flagpole Heights for Network Grids are in Page RE2 - 1 (If applicable)
 Generated Discrete Receptors for Multi-Tier (Risk) Grid and Receptor Locations for Fenceline Grid are in Page RE3 - 1 (If applicable)

Uniform Cartesian Grid

Option not in use

Non-Uniform Cartesian Grid

Option not in use

Uniform Polar Grid

Option not in use

Non-Uniform Polar Grid

Option not in use

Discrete Receptors

Discrete Cartesian Receptors

Record Number	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Group Name (Optional)	Terrain Elevations (Optional)	Flagpole Heights [m] (Optional)
1	937084.64	3845289.33	FENCEGRD	743.54	
2	937036.98	3845286.96	FENCEGRD	743.53	
3	936989.32	3845284.60	FENCEGRD	743.53	
4	936941.66	3845282.23	FENCEGRD	743.52	
5	936894.00	3845279.87	FENCEGRD	743.61	
6	936846.34	3845277.50	FENCEGRD	743.87	
7	936798.68	3845275.13	FENCEGRD	743.93	
8	936751.02	3845272.77	FENCEGRD	744.17	
9	936703.36	3845270.40	FENCEGRD	744.20	
10	937113.21	3845251.85	FENCEGRD	743.93	
11	937148.78	3845291.63	FENCEGRD	743.55	
12	937087.11	3845239.39	FENCEGRD	744.04	
13	937039.46	3845237.02	FENCEGRD	744.04	
14	936991.80	3845234.66	FENCEGRD	744.05	
15	936944.14	3845232.29	FENCEGRD	744.33	
16	936896.48	3845229.93	FENCEGRD	744.33	
17	936848.82	3845227.56	FENCEGRD	744.63	
18	936801.16	3845225.20	FENCEGRD	744.92	
19	936753.50	3845222.83	FENCEGRD	745.12	
20	936705.84	3845220.46	FENCEGRD	745.21	

Receptor Pathway

ISCST3

21	937132.67	3845158.89	FENCEGRD	744.88	
22	937173.26	3845178.27	FENCEGRD	744.71	
23	937228.59	3845240.15	FENCEGRD	744.15	
24	937243.32	3845282.65	FENCEGRD	744.00	
25	937092.07	3845139.51	FENCEGRD	745.13	
26	937044.41	3845137.15	FENCEGRD	745.36	
27	936996.76	3845134.78	FENCEGRD	745.44	
28	936949.10	3845132.42	FENCEGRD	745.65	
29	936901.44	3845130.05	FENCEGRD	745.75	
30	936853.78	3845127.68	FENCEGRD	746.00	
31	936806.12	3845125.32	FENCEGRD	746.25	
32	936758.46	3845122.95	FENCEGRD	746.31	
33	936710.80	3845120.59	FENCEGRD	746.39	
34	937139.27	3844957.56	FENCEGRD	747.23	
35	937176.55	3844975.35	FENCEGRD	746.80	
36	937213.82	3844993.15	FENCEGRD	746.56	
37	937251.10	3845010.95	FENCEGRD	746.15	
38	937288.38	3845028.74	FENCEGRD	745.99	
39	937325.66	3845046.54	FENCEGRD	745.83	
40	937376.47	3845103.37	FENCEGRD	745.59	
41	937390.01	3845142.39	FENCEGRD	745.52	
42	937403.54	3845181.42	FENCEGRD	745.38	
43	937417.07	3845220.45	FENCEGRD	745.11	
44	937430.61	3845259.48	FENCEGRD	744.96	
45	937444.14	3845298.51	FENCEGRD	745.00	
46	937101.99	3844939.76	FENCEGRD	747.60	
47	937054.33	3844937.39	FENCEGRD	747.99	
48	937006.67	3844935.03	FENCEGRD	748.24	
49	936959.01	3844932.66	FENCEGRD	748.29	
50	936911.35	3844930.30	FENCEGRD	748.59	
51	936863.69	3844927.93	FENCEGRD	748.76	
52	936816.04	3844925.56	FENCEGRD	748.94	
53	936768.38	3844923.20	FENCEGRD	749.40	
54	936720.72	3844920.83	FENCEGRD	749.78	
55	937167.37	3844459.75	FENCEGRD	755.51	
56	937207.96	3844479.13	FENCEGRD	754.87	
57	937248.56	3844498.51	FENCEGRD	754.38	
58	937289.15	3844517.89	FENCEGRD	753.82	
59	937329.74	3844537.27	FENCEGRD	753.09	

Receptor Pathway

ISCST3

60	937370.33	3844556.65	FENCEGRD	752.59	
61	937410.93	3844576.03	FENCEGRD	752.09	
62	937451.52	3844595.40	FENCEGRD	751.81	
63	937492.11	3844614.78	FENCEGRD	751.71	
64	937532.70	3844634.16	FENCEGRD	751.37	
65	937573.29	3844653.54	FENCEGRD	751.18	
66	937613.89	3844672.92	FENCEGRD	751.00	
67	937654.48	3844692.30	FENCEGRD	750.89	
68	937695.07	3844711.68	FENCEGRD	751.14	
69	937750.40	3844773.55	FENCEGRD	750.97	
70	937765.14	3844816.05	FENCEGRD	750.57	
71	937779.87	3844858.55	FENCEGRD	750.06	
72	937794.61	3844901.05	FENCEGRD	749.72	
73	937809.35	3844943.55	FENCEGRD	749.30	
74	937824.08	3844986.04	FENCEGRD	749.00	
75	937838.82	3845028.54	FENCEGRD	748.76	
76	937853.56	3845071.04	FENCEGRD	748.48	
77	937868.29	3845113.54	FENCEGRD	748.23	
78	937883.03	3845156.04	FENCEGRD	747.81	
79	937897.77	3845198.53	FENCEGRD	747.38	
80	937912.50	3845241.03	FENCEGRD	747.27	
81	937927.24	3845283.53	FENCEGRD	746.85	
82	937941.98	3845326.03	FENCEGRD	746.43	
83	937126.78	3844440.37	FENCEGRD	756.27	
84	937079.12	3844438.01	FENCEGRD	756.44	
85	937031.46	3844435.64	FENCEGRD	756.61	
86	936983.80	3844433.28	FENCEGRD	756.86	
87	936936.14	3844430.91	FENCEGRD	756.95	
88	936888.48	3844428.55	FENCEGRD	757.19	
89	936840.83	3844426.18	FENCEGRD	757.49	
90	936793.17	3844423.81	FENCEGRD	757.76	
91	936745.51	3844421.45	FENCEGRD	757.93	
92	936677.17	3845293.94	FENCEGRD	743.85	
93	936674.38	3845342.40	FENCEGRD	743.01	
94	936671.60	3845390.87	FENCEGRD	742.26	
95	936668.81	3845439.34	FENCEGRD	741.46	
96	936666.03	3845487.80	FENCEGRD	740.67	
97	936663.24	3845536.27	FENCEGRD	740.17	
98	936660.46	3845584.74	FENCEGRD	739.68	

Receptor Pathway

ISCST3

99	936657.67	3845633.20	FENCEGRD	739.19	
100	936654.89	3845681.67	FENCEGRD	738.70	
101	936639.63	3845265.32	FENCEGRD	744.22	
102	936678.92	3845230.02	FENCEGRD	744.98	
103	936627.25	3845291.07	FENCEGRD	743.73	
104	936624.46	3845339.54	FENCEGRD	743.01	
105	936621.68	3845388.00	FENCEGRD	742.26	
106	936618.89	3845436.47	FENCEGRD	741.46	
107	936616.11	3845484.94	FENCEGRD	740.66	
108	936613.33	3845533.40	FENCEGRD	740.17	
109	936610.54	3845581.87	FENCEGRD	739.68	
110	936607.76	3845630.34	FENCEGRD	739.19	
111	936604.97	3845678.80	FENCEGRD	738.60	
112	936546.67	3845245.29	FENCEGRD	744.49	
113	936565.92	3845205.24	FENCEGRD	745.29	
114	936627.05	3845150.32	FENCEGRD	746.19	
115	936668.93	3845135.45	FENCEGRD	746.33	
116	936527.41	3845285.33	FENCEGRD	743.54	
117	936524.63	3845333.80	FENCEGRD	742.74	
118	936521.84	3845382.27	FENCEGRD	742.01	
119	936519.06	3845430.73	FENCEGRD	741.15	
120	936516.27	3845479.20	FENCEGRD	740.65	
121	936513.49	3845527.67	FENCEGRD	740.05	
122	936510.71	3845576.13	FENCEGRD	739.37	
123	936507.92	3845624.60	FENCEGRD	738.88	
124	936505.14	3845673.07	FENCEGRD	737.78	
125	936348.37	3845230.95	FENCEGRD	744.60	
126	936369.00	3845188.04	FENCEGRD	745.46	
127	936389.63	3845145.13	FENCEGRD	746.09	
128	936410.26	3845102.23	FENCEGRD	746.85	
129	936430.89	3845059.32	FENCEGRD	747.53	
130	936496.38	3845000.48	FENCEGRD	748.54	
131	936541.25	3844984.55	FENCEGRD	748.87	
132	936586.12	3844968.62	FENCEGRD	749.25	
133	936630.98	3844952.69	FENCEGRD	749.47	
134	936675.85	3844936.76	FENCEGRD	749.68	
135	936327.74	3845273.86	FENCEGRD	743.98	
136	936324.96	3845322.33	FENCEGRD	743.22	
137	936322.17	3845370.80	FENCEGRD	742.48	

Receptor Pathway

ISCST3

138	936319.39	3845419.26	FENCEGRD	741.72	
139	936316.60	3845467.73	FENCEGRD	740.96	
140	936313.82	3845516.20	FENCEGRD	740.24	
141	936311.04	3845564.66	FENCEGRD	739.65	
142	936308.25	3845613.13	FENCEGRD	738.90	
143	936305.47	3845661.60	FENCEGRD	737.88	
144	935849.19	3845202.27	FENCEGRD	747.52	
145	935869.82	3845159.36	FENCEGRD	748.21	
146	935890.45	3845116.46	FENCEGRD	748.93	
147	935911.08	3845073.55	FENCEGRD	749.35	
148	935931.71	3845030.64	FENCEGRD	750.05	
149	935952.34	3844987.73	FENCEGRD	750.94	
150	935972.97	3844944.82	FENCEGRD	751.47	
151	935993.60	3844901.91	FENCEGRD	752.49	
152	936014.23	3844859.00	FENCEGRD	753.38	
153	936034.86	3844816.09	FENCEGRD	754.22	
154	936055.49	3844773.18	FENCEGRD	755.23	
155	936076.12	3844730.27	FENCEGRD	755.94	
156	936096.75	3844687.36	FENCEGRD	756.65	
157	936162.24	3844628.53	FENCEGRD	757.21	
158	936207.11	3844612.60	FENCEGRD	757.22	
159	936251.97	3844596.67	FENCEGRD	757.29	
160	936296.84	3844580.74	FENCEGRD	757.39	
161	936341.71	3844564.81	FENCEGRD	757.32	
162	936386.57	3844548.88	FENCEGRD	757.41	
163	936431.44	3844532.95	FENCEGRD	757.32	
164	936476.31	3844517.02	FENCEGRD	757.43	
165	936521.17	3844501.09	FENCEGRD	757.66	
166	936566.04	3844485.16	FENCEGRD	757.80	
167	936610.91	3844469.23	FENCEGRD	757.83	
168	936655.77	3844453.31	FENCEGRD	757.76	
169	936700.64	3844437.38	FENCEGRD	758.00	
170	935828.57	3845245.18	FENCEGRD	746.80	
171	935825.78	3845293.65	FENCEGRD	746.02	
172	935823.00	3845342.12	FENCEGRD	745.12	
173	935820.21	3845390.58	FENCEGRD	744.24	
174	935817.43	3845439.05	FENCEGRD	743.48	
175	935814.64	3845487.52	FENCEGRD	742.76	
176	935811.86	3845535.98	FENCEGRD	742.17	

Receptor Pathway

ISCST3

177	935809.07	3845584.45	FENCEGRD	741.33	
178	935806.29	3845632.92	FENCEGRD	740.40	
179	936678.43	3845708.06	FENCEGRD	738.44	
180	936725.85	3845710.76	FENCEGRD	738.44	
181	936773.26	3845713.45	FENCEGRD	738.45	
182	936820.67	3845716.14	FENCEGRD	738.45	
183	936868.09	3845718.83	FENCEGRD	738.45	
184	936915.50	3845721.52	FENCEGRD	738.45	
185	936962.91	3845724.22	FENCEGRD	738.45	
186	937010.33	3845726.91	FENCEGRD	738.45	
187	937057.74	3845729.60	FENCEGRD	738.72	
188	936649.74	3845745.51	FENCEGRD	738.04	
189	936614.42	3845705.92	FENCEGRD	738.25	
190	936675.60	3845757.98	FENCEGRD	737.94	
191	936723.01	3845760.68	FENCEGRD	738.23	
192	936770.42	3845763.37	FENCEGRD	738.23	
193	936817.84	3845766.06	FENCEGRD	738.23	
194	936865.25	3845768.75	FENCEGRD	738.19	
195	936912.67	3845771.44	FENCEGRD	737.94	
196	936960.08	3845774.13	FENCEGRD	737.94	
197	937007.49	3845776.83	FENCEGRD	737.95	
198	937054.91	3845779.52	FENCEGRD	738.08	
199	936629.70	3845838.41	FENCEGRD	737.23	
200	936589.48	3845819.00	FENCEGRD	737.27	
201	936534.55	3845757.42	FENCEGRD	737.28	
202	936519.84	3845715.24	FENCEGRD	737.50	
203	936669.93	3845857.82	FENCEGRD	737.23	
204	936717.34	3845860.52	FENCEGRD	737.26	
205	936764.76	3845863.21	FENCEGRD	737.53	
206	936812.17	3845865.90	FENCEGRD	737.54	
207	936859.58	3845868.59	FENCEGRD	737.31	
208	936907.00	3845871.28	FENCEGRD	737.31	
209	936954.41	3845873.97	FENCEGRD	737.31	
210	937001.83	3845876.67	FENCEGRD	737.31	
211	937049.24	3845879.36	FENCEGRD	737.72	
212	936621.65	3846039.68	FENCEGRD	735.66	
213	936584.71	3846021.85	FENCEGRD	735.80	
214	936547.77	3846004.02	FENCEGRD	735.68	
215	936510.82	3845986.20	FENCEGRD	735.53	

Receptor Pathway

ISCST3

216	936473.88	3845968.37	FENCEGRD	735.59	
217	936436.94	3845950.54	FENCEGRD	735.54	
218	936386.49	3845893.99	FENCEGRD	735.78	
219	936372.99	3845855.25	FENCEGRD	735.85	
220	936359.48	3845816.52	FENCEGRD	736.24	
221	936345.98	3845777.79	FENCEGRD	736.62	
222	936332.47	3845739.06	FENCEGRD	737.01	
223	936318.97	3845700.33	FENCEGRD	737.42	
224	936658.59	3846057.50	FENCEGRD	735.74	
225	936706.01	3846060.19	FENCEGRD	735.79	
226	936753.42	3846062.89	FENCEGRD	735.79	
227	936800.83	3846065.58	FENCEGRD	735.81	
228	936848.25	3846068.27	FENCEGRD	736.10	
229	936895.66	3846070.96	FENCEGRD	736.32	
230	936943.08	3846073.65	FENCEGRD	736.51	
231	936990.49	3846076.34	FENCEGRD	736.97	
232	937037.90	3846079.04	FENCEGRD	737.18	
233	936590.03	3846537.29	FENCEGRD	732.13	
234	936549.80	3846517.88	FENCEGRD	732.13	
235	936509.57	3846498.47	FENCEGRD	732.07	
236	936469.35	3846479.06	FENCEGRD	731.85	
237	936429.12	3846459.64	FENCEGRD	731.91	
238	936388.89	3846440.23	FENCEGRD	731.81	
239	936348.67	3846420.82	FENCEGRD	731.95	
240	936308.44	3846401.41	FENCEGRD	732.08	
241	936268.22	3846382.00	FENCEGRD	731.98	
242	936227.99	3846362.59	FENCEGRD	732.16	
243	936187.76	3846343.18	FENCEGRD	732.33	
244	936147.54	3846323.77	FENCEGRD	732.50	
245	936107.31	3846304.36	FENCEGRD	732.67	
246	936067.08	3846284.95	FENCEGRD	732.85	
247	936012.15	3846223.36	FENCEGRD	733.44	
248	935997.45	3846181.19	FENCEGRD	733.85	
249	935982.74	3846139.01	FENCEGRD	734.27	
250	935968.04	3846096.84	FENCEGRD	734.57	
251	935953.33	3846054.66	FENCEGRD	735.08	
252	935938.63	3846012.49	FENCEGRD	735.52	
253	935923.93	3845970.31	FENCEGRD	735.90	
254	935909.22	3845928.14	FENCEGRD	736.36	

Receptor Pathway

ISCST3

255	935894.52	3845885.96	FENCEGRD	736.85	
256	935879.81	3845843.79	FENCEGRD	737.50	
257	935865.11	3845801.61	FENCEGRD	737.92	
258	935850.40	3845759.44	FENCEGRD	738.56	
259	935835.70	3845717.27	FENCEGRD	739.06	
260	935820.99	3845675.09	FENCEGRD	739.78	
261	936630.25	3846556.70	FENCEGRD	732.40	
262	936677.67	3846559.39	FENCEGRD	732.65	
263	936725.08	3846562.08	FENCEGRD	732.88	
264	936772.49	3846564.77	FENCEGRD	733.13	
265	936819.91	3846567.47	FENCEGRD	733.38	
266	936867.32	3846570.16	FENCEGRD	733.73	
267	936914.73	3846572.85	FENCEGRD	734.01	
268	936962.15	3846575.54	FENCEGRD	734.25	
269	937009.56	3846578.23	FENCEGRD	734.41	
270	937084.11	3845706.19	FENCEGRD	738.88	
271	937087.14	3845657.40	FENCEGRD	739.28	
272	937090.17	3845608.60	FENCEGRD	739.78	
273	937093.20	3845559.81	FENCEGRD	740.28	
274	937096.23	3845511.02	FENCEGRD	740.72	
275	937099.26	3845462.23	FENCEGRD	741.49	
276	937102.29	3845413.43	FENCEGRD	741.99	
277	937105.32	3845364.64	FENCEGRD	742.57	
278	937108.35	3845315.85	FENCEGRD	743.28	
279	937121.48	3845735.01	FENCEGRD	738.95	
280	937081.93	3845770.12	FENCEGRD	738.46	
281	937134.01	3845709.29	FENCEGRD	739.29	
282	937137.04	3845660.49	FENCEGRD	739.51	
283	937140.07	3845611.70	FENCEGRD	740.00	
284	937143.10	3845562.91	FENCEGRD	740.50	
285	937146.13	3845514.12	FENCEGRD	740.98	
286	937149.16	3845465.32	FENCEGRD	741.69	
287	937152.19	3845416.53	FENCEGRD	742.08	
288	937155.22	3845367.74	FENCEGRD	742.78	
289	937158.25	3845318.95	FENCEGRD	743.28	
290	937214.33	3845755.49	FENCEGRD	739.41	
291	937194.84	3845795.50	FENCEGRD	739.13	
292	937133.31	3845850.12	FENCEGRD	738.55	
293	937091.27	3845864.74	FENCEGRD	738.17	

Receptor Pathway

ISCST3

294	937233.82	3845715.48	FENCEGRD	740.00	
295	937236.85	3845666.69	FENCEGRD	740.37	
296	937239.88	3845617.90	FENCEGRD	740.69	
297	937242.91	3845569.11	FENCEGRD	741.18	
298	937245.94	3845520.31	FENCEGRD	741.68	
299	937248.97	3845471.52	FENCEGRD	742.18	
300	937252.00	3845422.73	FENCEGRD	742.67	
301	937255.03	3845373.94	FENCEGRD	743.17	
302	937258.06	3845325.14	FENCEGRD	743.67	
303	937412.55	3845770.74	FENCEGRD	741.28	
304	937391.67	3845813.61	FENCEGRD	740.97	
305	937370.78	3845856.47	FENCEGRD	740.97	
306	937349.90	3845899.34	FENCEGRD	740.66	
307	937329.01	3845942.20	FENCEGRD	740.42	
308	937263.09	3846000.73	FENCEGRD	739.48	
309	937218.05	3846016.39	FENCEGRD	739.44	
310	937173.01	3846032.05	FENCEGRD	739.05	
311	937127.98	3846047.71	FENCEGRD	738.35	
312	937082.94	3846063.38	FENCEGRD	737.61	
313	937433.44	3845727.88	FENCEGRD	741.72	
314	937436.47	3845679.09	FENCEGRD	741.93	
315	937439.50	3845630.29	FENCEGRD	742.41	
316	937442.53	3845581.50	FENCEGRD	742.60	
317	937445.56	3845532.71	FENCEGRD	743.08	
318	937448.59	3845483.92	FENCEGRD	743.31	
319	937451.62	3845435.12	FENCEGRD	743.78	
320	937454.65	3845386.33	FENCEGRD	744.02	
321	937457.68	3845337.54	FENCEGRD	744.78	
322	937911.59	3845801.73	FENCEGRD	741.00	
323	937890.71	3845844.60	FENCEGRD	740.58	
324	937869.82	3845887.46	FENCEGRD	740.01	
325	937848.93	3845930.33	FENCEGRD	739.04	
326	937828.05	3845973.19	FENCEGRD	738.99	
327	937807.16	3846016.06	FENCEGRD	738.75	
328	937786.28	3846058.92	FENCEGRD	738.30	
329	937765.39	3846101.79	FENCEGRD	737.86	
330	937744.51	3846144.65	FENCEGRD	737.60	
331	937723.62	3846187.52	FENCEGRD	737.44	
332	937702.74	3846230.38	FENCEGRD	737.18	

Receptor Pathway

ISCST3

333	937681.85	3846273.25	FENCEGRD	736.61	
334	937660.96	3846316.11	FENCEGRD	736.30	
335	937595.04	3846374.64	FENCEGRD	736.30	
336	937550.01	3846390.30	FENCEGRD	736.11	
337	937504.97	3846405.96	FENCEGRD	735.60	
338	937459.93	3846421.62	FENCEGRD	734.64	
339	937414.89	3846437.28	FENCEGRD	734.65	
340	937369.86	3846452.94	FENCEGRD	734.68	
341	937324.82	3846468.60	FENCEGRD	734.79	
342	937279.78	3846484.27	FENCEGRD	734.61	
343	937234.75	3846499.93	FENCEGRD	734.54	
344	937189.71	3846515.59	FENCEGRD	734.43	
345	937144.67	3846531.25	FENCEGRD	734.38	
346	937099.64	3846546.91	FENCEGRD	734.53	
347	937054.60	3846562.57	FENCEGRD	734.59	
348	937932.48	3845758.87	FENCEGRD	741.73	
349	937935.51	3845710.08	FENCEGRD	742.23	
350	937938.54	3845661.28	FENCEGRD	742.96	
351	937941.57	3845612.49	FENCEGRD	743.67	
352	937944.60	3845563.70	FENCEGRD	744.16	
353	937947.62	3845514.90	FENCEGRD	744.52	
354	937950.65	3845466.11	FENCEGRD	745.01	
355	937953.68	3845417.32	FENCEGRD	745.51	
356	937956.71	3845368.53	FENCEGRD	746.00	

Discrete Polar Receptors

Option not in use

Plant Boundary Receptors

Cartesian Plant Boundary

Primary

Record Number	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Group Name (Optional)	Terrain Elevations (Optional)	Flagpole Heights [m] (Optional)
1	937059.16	3845704.64	FENCEPRI	738.84	
2	937083.40	3845314.30	FENCEPRI	743.28	
3	936702.13	3845295.37	FENCEPRI	743.85	
4	936679.85	3845683.10	FENCEPRI	738.70	

Receptor Pathway

ISCST3

Intermediate

Option not in use

Polar Plant Boundary

Option not in use

Receptor Groups

Record Number	Group ID	Group Description
1	FENCEPRI	Cartesian plant boundary Primary Receptors
2	NPOL1	Receptors generated from Non-Uniform Polar Grid
3	FENCEGRD	Receptors generated from Fenceline Grid

Building Downwash Information

Option not in use

Emission Rate Units for Output

For Concentration

Unit Factor:	1E6
Emission Unit Label:	GRAMS/SEC
Concentration Unit Label:	MICROGRAMS/M**3

Data for Particulates

Option not in use

Variable Emission Rate

Seasonally Emission Rate Variation

Option not in use

Monthly Emission Rate Variation

Option not in use

Hourly Emission Rate Variation

Option not in use

Wind Speed / Stability Category Emission Rate Variation

Option not in use

Season / Hour-of-Day Emission Rate Variation

Option not in use

Season / Hour-of-Day / Day-of-Week Emission Rate Variation

Option not in use

Source Pathway - Source Inputs

ISCST3

Line Sources

Source Type	Source ID	Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
LINE	SLINE1	50.00	0.20000		936706.66	3845685.29	738.69	5.00
			0.20000		936738.73	3845295.34	743.75	5.00
	SLINE2	50.00	0.20000		936787.08	3845689.90	738.69	5.00
			0.20000		936819.15	3845299.95	743.48	5.00
	SLINE3	50.00	0.20000		936870.41	3845694.36	738.71	5.00
			0.20000		936902.48	3845304.41	743.27	5.00
	SLINE4	50.00	0.20000		936948.41	3845698.53	738.71	5.00
			0.20000		936980.48	3845308.58	743.32	5.00
	SLINE5	50.00	0.20000		937026.29	3845702.70	738.76	5.00
			0.20000		937058.36	3845312.75	743.29	5.00

Source Pathway - Source Inputs

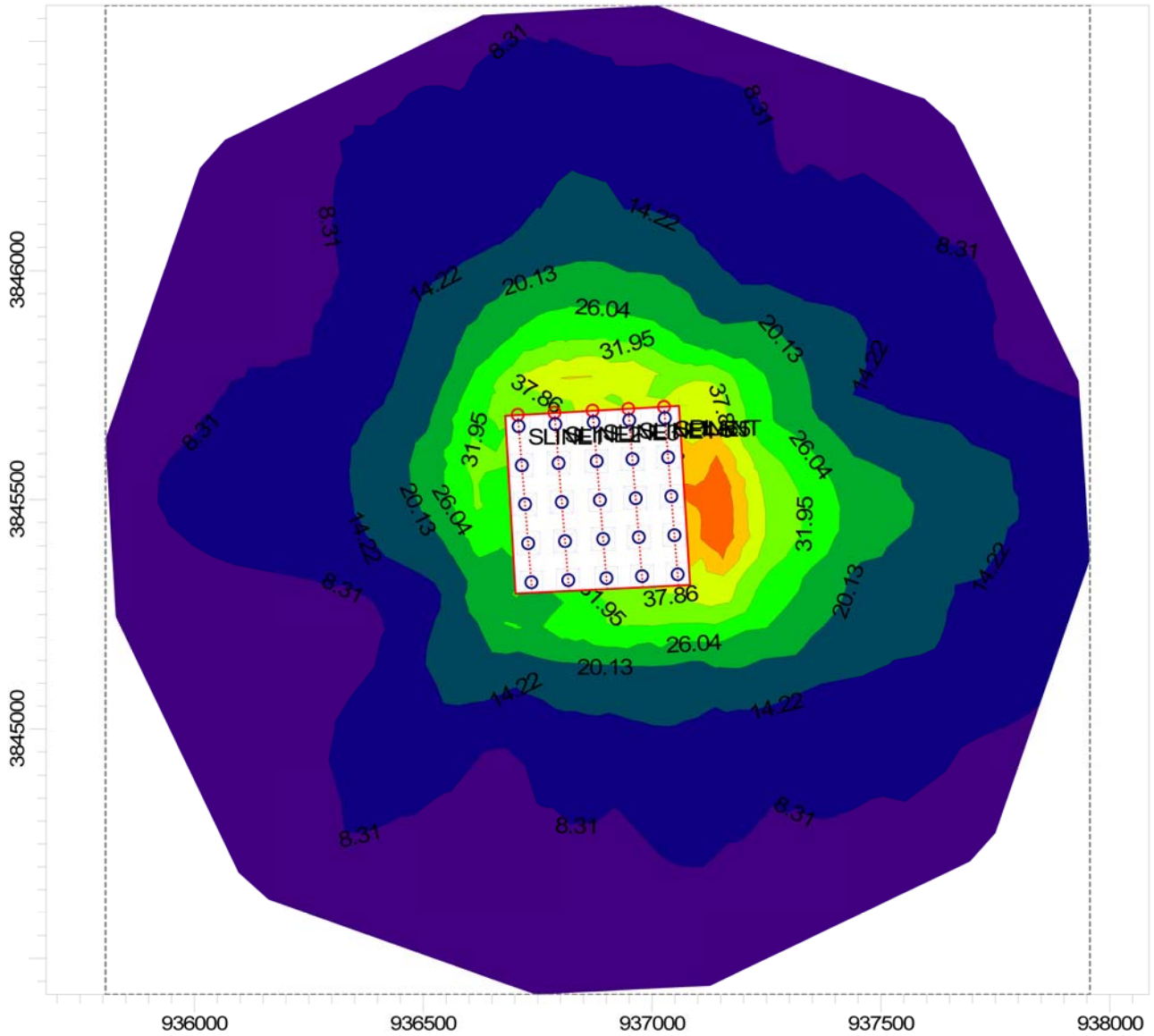
ISCST3

Volume Sources Generated from Line Sources

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimension [m]	Initial Vertical Dimension [m]
SLINE1	L0000446	936708.74	3845660.33	739.01	5.00	0.04000	50.00		39.69	2.33
	L0000447	936715.73	3845575.29	740.12	5.00	0.04000	50.00		39.69	2.33
	L0000448	936722.72	3845490.25	741.22	5.00	0.04000	50.00		39.69	2.33
	L0000449	936729.71	3845405.21	742.32	5.00	0.04000	50.00		39.69	2.33
	L0000450	936736.70	3845320.17	743.43	5.00	0.04000	50.00		39.69	2.33
SLINE2	L0000451	936789.11	3845665.08	739.00	5.00	0.04000	50.00		39.69	2.33
	L0000452	936796.10	3845580.04	740.04	5.00	0.04000	50.00		39.69	2.33
	L0000453	936803.09	3845495.00	741.08	5.00	0.04000	50.00		39.69	2.33
	L0000454	936810.09	3845409.96	742.13	5.00	0.04000	50.00		39.69	2.33
	L0000455	936817.08	3845324.92	743.17	5.00	0.04000	50.00		39.69	2.33
SLINE3	L0000456	936872.49	3845669.33	739.00	5.00	0.04000	50.00		39.66	2.33
	L0000457	936879.48	3845584.35	740.00	5.00	0.04000	50.00		39.66	2.33
	L0000458	936886.47	3845499.38	740.99	5.00	0.04000	50.00		39.66	2.33
	L0000459	936893.46	3845414.40	741.98	5.00	0.04000	50.00		39.66	2.33
	L0000460	936900.45	3845329.42	742.98	5.00	0.04000	50.00		39.66	2.33
SLINE5	L0000461	937028.36	3845677.83	739.05	5.00	0.04000	50.00		39.69	2.33
	L0000462	937035.35	3845592.79	740.04	5.00	0.04000	50.00		39.69	2.33
	L0000463	937042.34	3845507.75	741.02	5.00	0.04000	50.00		39.69	2.33
	L0000464	937049.34	3845422.71	742.01	5.00	0.04000	50.00		39.69	2.33
	L0000465	937056.33	3845337.67	743.00	5.00	0.04000	50.00		39.69	2.33
SLINE4	L0000466	936950.49	3845673.58	739.00	5.00	0.04000	50.00		39.69	2.33
	L0000467	936957.48	3845588.54	740.01	5.00	0.04000	50.00		39.69	2.33
	L0000468	936964.47	3845503.50	741.02	5.00	0.04000	50.00		39.69	2.33
	L0000469	936971.46	3845418.46	742.02	5.00	0.04000	50.00		39.69	2.33
	L0000470	936978.45	3845333.42	743.03	5.00	0.04000	50.00		39.69	2.33

PROJECT TITLE:


**Lane Ranch
PM10 Combustion**



PLOT FILE OF HIGH 1ST HIGH 24-HR VALUES FOR SOURCE GROUP: ALL

ug/m³



COMMENTS: Unit Emission Factor (1 g/s)	SOURCES: 5	COMPANY NAME:
	RECEPTORS: 360	MODELER:
	OUTPUT TYPE: Concentration	SCALE: 1:14,704 0  0.5 km
	MAX: 55.59879 ug/m³	DATE: 11/13/2008 PROJECT NO.:

Control Pathway

ISCST3

Dispersion Options

Titles Lane Ranch - Lancaster PM10 - 1hr & 24hr	
Dispersion Options <input type="checkbox"/> Regulatory Default <input checked="" type="checkbox"/> Non-Default Options	Dispersion Coefficient Urban
<input type="checkbox"/> No stack-tip downwash <input type="checkbox"/> Missing data processing routine <input checked="" type="checkbox"/> By-pass the calms processing routine <input type="checkbox"/> Gradual plume rise <input type="checkbox"/> No buoyancy-included dispersion <input type="checkbox"/> Vertical term adjustment if HE > ZI <input type="checkbox"/> TOXICS	Output Type <input checked="" type="checkbox"/> Concentration <input type="checkbox"/> Total Deposition (Dry & Wet) <input type="checkbox"/> Dry Deposition <input type="checkbox"/> Wet Deposition
<input type="checkbox"/> SCIM (Sampled Chronological Input Model) <input type="checkbox"/> Gas Dry Deposition <input type="checkbox"/> Optimized Area Source and Dry Depletion Algorithms <input type="checkbox"/> Season by Hour-of-Day Output Option	Plume Depletion <input checked="" type="checkbox"/> Dry Removal <input type="checkbox"/> Wet Removal































Pollutant / Averaging Time / Terrain Options

Pollutant Type OTHER - `PM10	Exponential Decay <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Averaging Time Options Hours <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 6 <input type="checkbox"/> 8 <input type="checkbox"/> 12 <input checked="" type="checkbox"/> 24 <input type="checkbox"/> Month <input type="checkbox"/> Period <input type="checkbox"/> Annual	Terrain Height Options <input type="checkbox"/> Flat <input checked="" type="checkbox"/> Elevated SO: Meters RE: Meters TG: Meters
Flagpole Receptors <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Default Height = 2.00 m	Terrain Calculation Algorithms Simple + Complex Terrain

Output Pathway

ISCST3

Tabular Printed Outputs

Short Term Averaging Period	RECTABLE Highest Values Table										MAXTABLE Maximum Values Table	DAYTABLE Daily Values Table
	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th		
ALL												No
1												No
24												No

Output Pathway

ISCST3

Contour Plot Files (PLOTFILE)

Path for PLOTFILES: LRPM10.IS

Averaging Period	Source Group ID	High Value	File Name
1	ALL	1st	01H1GALL.PLT
24	ALL	1st	24H1GALL.PLT

Meteorology Pathway

ISCST3

Met Input Data

Meteorological Input Data File and Format

Filename: C:\Data\Met\DryDep\Deposition MET\lahabra.dep
Format Type: Default ASCII Format

Anemometer Height

Height = 10.00 [m]

Optional Wind Direction

Rotation [deg]:

Surface Meteorological Station

Station No.: 53099 Location [m] (Optional):
X Coord.:
Year: 1981 Y Coord.:
Station Name:

Upper Air Meteorological Station

Station No.: 91919 Location [m] (Optional):
X Coord.:
Year: 1981 Y Coord.:
Station Name:

Data Period

Read All Met. File?

Yes

No

Wind Speed Categories

Stability Category	Wind Speed [m/s]	Stability Category	Wind Speed [m/s]
A	1.54	D	8.23
B	3.09	E	10.8
C	5.14	F	No Upper Bound

Source Pathway - Source Inputs

ISCST3

Point Sources

No Point Sources Specified

Volume Sources

No Volume Sources Specified

Area Sources

No Area Sources Specified

Open Pit Sources

No Open Pit Sources Specified

Circular Area Sources

No Circular Area Sources Specified

Polygon Area Sources

Source Type	Source ID	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/ (s-m^2)]	Initial Vertical Dim. [m]	Number of Vertices (or sides)	X Coordinate for Vertices [m]	Y Coordinate for Vertices [m]
AREA POLY	AREA1	738.84	1.00	6.74E-6	1.00	4	937059.16	3845704.64
				6.74E-6			937083.40	3845314.30
				6.74E-6			936702.13	3845295.37
				6.74E-6			936679.85	3845683.10
		Area 1						

Flare Sources

No Flare Sources Specified

Line Sources

No Line Sources Specified

Receptor Pathway

ISCST3

Receptor Networks

Note: Terrain Elevations and Flagpole Heights for Network Grids are in Page RE2 - 1 (If applicable)
Generated Discrete Receptors for Multi-Tier (Risk) Grid and Receptor Locations for Fenceline Grid are in Page RE3 - 1 (If applicable)

Uniform Cartesian Grid

Option not in use

Non-Uniform Cartesian Grid

Option not in use

Uniform Polar Grid

Option not in use

Non-Uniform Polar Grid

Option not in use

Discrete Receptors

Discrete Cartesian Receptors

Record Number	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Group Name (Optional)	Terrain Elevations (Optional)	Flagpole Heights [m] (Optional)
1	937084.64	3845289.33	FENCEGRD	743.54	
2	937036.98	3845286.96	FENCEGRD	743.53	
3	936989.32	3845284.60	FENCEGRD	743.53	
4	936941.66	3845282.23	FENCEGRD	743.52	
5	936894.00	3845279.87	FENCEGRD	743.61	
6	936846.34	3845277.50	FENCEGRD	743.87	
7	936798.68	3845275.13	FENCEGRD	743.93	
8	936751.02	3845272.77	FENCEGRD	744.17	
9	936703.36	3845270.40	FENCEGRD	744.20	
10	937113.21	3845251.85	FENCEGRD	743.93	
11	937148.78	3845291.63	FENCEGRD	743.55	
12	937087.11	3845239.39	FENCEGRD	744.04	
13	937039.46	3845237.02	FENCEGRD	744.04	
14	936991.80	3845234.66	FENCEGRD	744.05	
15	936944.14	3845232.29	FENCEGRD	744.33	
16	936896.48	3845229.93	FENCEGRD	744.33	
17	936848.82	3845227.56	FENCEGRD	744.63	
18	936801.16	3845225.20	FENCEGRD	744.92	
19	936753.50	3845222.83	FENCEGRD	745.12	
20	936705.84	3845220.46	FENCEGRD	745.21	

Receptor Pathway

ISCST3

21	937132.67	3845158.89	FENCEGRD	744.88	
22	937173.26	3845178.27	FENCEGRD	744.71	
23	937228.59	3845240.15	FENCEGRD	744.15	
24	937243.32	3845282.65	FENCEGRD	744.00	
25	937092.07	3845139.51	FENCEGRD	745.13	
26	937044.41	3845137.15	FENCEGRD	745.36	
27	936996.76	3845134.78	FENCEGRD	745.44	
28	936949.10	3845132.42	FENCEGRD	745.65	
29	936901.44	3845130.05	FENCEGRD	745.75	
30	936853.78	3845127.68	FENCEGRD	746.00	
31	936806.12	3845125.32	FENCEGRD	746.25	
32	936758.46	3845122.95	FENCEGRD	746.31	
33	936710.80	3845120.59	FENCEGRD	746.39	
34	937139.27	3844957.56	FENCEGRD	747.23	
35	937176.55	3844975.35	FENCEGRD	746.80	
36	937213.82	3844993.15	FENCEGRD	746.56	
37	937251.10	3845010.95	FENCEGRD	746.15	
38	937288.38	3845028.74	FENCEGRD	745.99	
39	937325.66	3845046.54	FENCEGRD	745.83	
40	937376.47	3845103.37	FENCEGRD	745.59	
41	937390.01	3845142.39	FENCEGRD	745.52	
42	937403.54	3845181.42	FENCEGRD	745.38	
43	937417.07	3845220.45	FENCEGRD	745.11	
44	937430.61	3845259.48	FENCEGRD	744.96	
45	937444.14	3845298.51	FENCEGRD	745.00	
46	937101.99	3844939.76	FENCEGRD	747.60	
47	937054.33	3844937.39	FENCEGRD	747.99	
48	937006.67	3844935.03	FENCEGRD	748.24	
49	936959.01	3844932.66	FENCEGRD	748.29	
50	936911.35	3844930.30	FENCEGRD	748.59	
51	936863.69	3844927.93	FENCEGRD	748.76	
52	936816.04	3844925.56	FENCEGRD	748.94	
53	936768.38	3844923.20	FENCEGRD	749.40	
54	936720.72	3844920.83	FENCEGRD	749.78	
55	937167.37	3844459.75	FENCEGRD	755.51	
56	937207.96	3844479.13	FENCEGRD	754.87	
57	937248.56	3844498.51	FENCEGRD	754.38	
58	937289.15	3844517.89	FENCEGRD	753.82	
59	937329.74	3844537.27	FENCEGRD	753.09	

Receptor Pathway

ISCST3

60	937370.33	3844556.65	FENCEGRD	752.59	
61	937410.93	3844576.03	FENCEGRD	752.09	
62	937451.52	3844595.40	FENCEGRD	751.81	
63	937492.11	3844614.78	FENCEGRD	751.71	
64	937532.70	3844634.16	FENCEGRD	751.37	
65	937573.29	3844653.54	FENCEGRD	751.18	
66	937613.89	3844672.92	FENCEGRD	751.00	
67	937654.48	3844692.30	FENCEGRD	750.89	
68	937695.07	3844711.68	FENCEGRD	751.14	
69	937750.40	3844773.55	FENCEGRD	750.97	
70	937765.14	3844816.05	FENCEGRD	750.57	
71	937779.87	3844858.55	FENCEGRD	750.06	
72	937794.61	3844901.05	FENCEGRD	749.72	
73	937809.35	3844943.55	FENCEGRD	749.30	
74	937824.08	3844986.04	FENCEGRD	749.00	
75	937838.82	3845028.54	FENCEGRD	748.76	
76	937853.56	3845071.04	FENCEGRD	748.48	
77	937868.29	3845113.54	FENCEGRD	748.23	
78	937883.03	3845156.04	FENCEGRD	747.81	
79	937897.77	3845198.53	FENCEGRD	747.38	
80	937912.50	3845241.03	FENCEGRD	747.27	
81	937927.24	3845283.53	FENCEGRD	746.85	
82	937941.98	3845326.03	FENCEGRD	746.43	
83	937126.78	3844440.37	FENCEGRD	756.27	
84	937079.12	3844438.01	FENCEGRD	756.44	
85	937031.46	3844435.64	FENCEGRD	756.61	
86	936983.80	3844433.28	FENCEGRD	756.86	
87	936936.14	3844430.91	FENCEGRD	756.95	
88	936888.48	3844428.55	FENCEGRD	757.19	
89	936840.83	3844426.18	FENCEGRD	757.49	
90	936793.17	3844423.81	FENCEGRD	757.76	
91	936745.51	3844421.45	FENCEGRD	757.93	
92	936677.17	3845293.94	FENCEGRD	743.85	
93	936674.38	3845342.40	FENCEGRD	743.01	
94	936671.60	3845390.87	FENCEGRD	742.26	
95	936668.81	3845439.34	FENCEGRD	741.46	
96	936666.03	3845487.80	FENCEGRD	740.67	
97	936663.24	3845536.27	FENCEGRD	740.17	
98	936660.46	3845584.74	FENCEGRD	739.68	

Receptor Pathway

ISCST3

99	936657.67	3845633.20	FENCEGRD	739.19	
100	936654.89	3845681.67	FENCEGRD	738.70	
101	936639.63	3845265.32	FENCEGRD	744.22	
102	936678.92	3845230.02	FENCEGRD	744.98	
103	936627.25	3845291.07	FENCEGRD	743.73	
104	936624.46	3845339.54	FENCEGRD	743.01	
105	936621.68	3845388.00	FENCEGRD	742.26	
106	936618.89	3845436.47	FENCEGRD	741.46	
107	936616.11	3845484.94	FENCEGRD	740.66	
108	936613.33	3845533.40	FENCEGRD	740.17	
109	936610.54	3845581.87	FENCEGRD	739.68	
110	936607.76	3845630.34	FENCEGRD	739.19	
111	936604.97	3845678.80	FENCEGRD	738.60	
112	936546.67	3845245.29	FENCEGRD	744.49	
113	936565.92	3845205.24	FENCEGRD	745.29	
114	936627.05	3845150.32	FENCEGRD	746.19	
115	936668.93	3845135.45	FENCEGRD	746.33	
116	936527.41	3845285.33	FENCEGRD	743.54	
117	936524.63	3845333.80	FENCEGRD	742.74	
118	936521.84	3845382.27	FENCEGRD	742.01	
119	936519.06	3845430.73	FENCEGRD	741.15	
120	936516.27	3845479.20	FENCEGRD	740.65	
121	936513.49	3845527.67	FENCEGRD	740.05	
122	936510.71	3845576.13	FENCEGRD	739.37	
123	936507.92	3845624.60	FENCEGRD	738.88	
124	936505.14	3845673.07	FENCEGRD	737.78	
125	936348.37	3845230.95	FENCEGRD	744.60	
126	936369.00	3845188.04	FENCEGRD	745.46	
127	936389.63	3845145.13	FENCEGRD	746.09	
128	936410.26	3845102.23	FENCEGRD	746.85	
129	936430.89	3845059.32	FENCEGRD	747.53	
130	936496.38	3845000.48	FENCEGRD	748.54	
131	936541.25	3844984.55	FENCEGRD	748.87	
132	936586.12	3844968.62	FENCEGRD	749.25	
133	936630.98	3844952.69	FENCEGRD	749.47	
134	936675.85	3844936.76	FENCEGRD	749.68	
135	936327.74	3845273.86	FENCEGRD	743.98	
136	936324.96	3845322.33	FENCEGRD	743.22	
137	936322.17	3845370.80	FENCEGRD	742.48	

Receptor Pathway

ISCST3

138	936319.39	3845419.26	FENCEGRD	741.72	
139	936316.60	3845467.73	FENCEGRD	740.96	
140	936313.82	3845516.20	FENCEGRD	740.24	
141	936311.04	3845564.66	FENCEGRD	739.65	
142	936308.25	3845613.13	FENCEGRD	738.90	
143	936305.47	3845661.60	FENCEGRD	737.88	
144	935849.19	3845202.27	FENCEGRD	747.52	
145	935869.82	3845159.36	FENCEGRD	748.21	
146	935890.45	3845116.46	FENCEGRD	748.93	
147	935911.08	3845073.55	FENCEGRD	749.35	
148	935931.71	3845030.64	FENCEGRD	750.05	
149	935952.34	3844987.73	FENCEGRD	750.94	
150	935972.97	3844944.82	FENCEGRD	751.47	
151	935993.60	3844901.91	FENCEGRD	752.49	
152	936014.23	3844859.00	FENCEGRD	753.38	
153	936034.86	3844816.09	FENCEGRD	754.22	
154	936055.49	3844773.18	FENCEGRD	755.23	
155	936076.12	3844730.27	FENCEGRD	755.94	
156	936096.75	3844687.36	FENCEGRD	756.65	
157	936162.24	3844628.53	FENCEGRD	757.21	
158	936207.11	3844612.60	FENCEGRD	757.22	
159	936251.97	3844596.67	FENCEGRD	757.29	
160	936296.84	3844580.74	FENCEGRD	757.39	
161	936341.71	3844564.81	FENCEGRD	757.32	
162	936386.57	3844548.88	FENCEGRD	757.41	
163	936431.44	3844532.95	FENCEGRD	757.32	
164	936476.31	3844517.02	FENCEGRD	757.43	
165	936521.17	3844501.09	FENCEGRD	757.66	
166	936566.04	3844485.16	FENCEGRD	757.80	
167	936610.91	3844469.23	FENCEGRD	757.83	
168	936655.77	3844453.31	FENCEGRD	757.76	
169	936700.64	3844437.38	FENCEGRD	758.00	
170	935828.57	3845245.18	FENCEGRD	746.80	
171	935825.78	3845293.65	FENCEGRD	746.02	
172	935823.00	3845342.12	FENCEGRD	745.12	
173	935820.21	3845390.58	FENCEGRD	744.24	
174	935817.43	3845439.05	FENCEGRD	743.48	
175	935814.64	3845487.52	FENCEGRD	742.76	
176	935811.86	3845535.98	FENCEGRD	742.17	

Receptor Pathway

ISCST3

177	935809.07	3845584.45	FENCEGRD	741.33	
178	935806.29	3845632.92	FENCEGRD	740.40	
179	936678.43	3845708.06	FENCEGRD	738.44	
180	936725.85	3845710.76	FENCEGRD	738.44	
181	936773.26	3845713.45	FENCEGRD	738.45	
182	936820.67	3845716.14	FENCEGRD	738.45	
183	936868.09	3845718.83	FENCEGRD	738.45	
184	936915.50	3845721.52	FENCEGRD	738.45	
185	936962.91	3845724.22	FENCEGRD	738.45	
186	937010.33	3845726.91	FENCEGRD	738.45	
187	937057.74	3845729.60	FENCEGRD	738.72	
188	936649.74	3845745.51	FENCEGRD	738.04	
189	936614.42	3845705.92	FENCEGRD	738.25	
190	936675.60	3845757.98	FENCEGRD	737.94	
191	936723.01	3845760.68	FENCEGRD	738.23	
192	936770.42	3845763.37	FENCEGRD	738.23	
193	936817.84	3845766.06	FENCEGRD	738.23	
194	936865.25	3845768.75	FENCEGRD	738.19	
195	936912.67	3845771.44	FENCEGRD	737.94	
196	936960.08	3845774.13	FENCEGRD	737.94	
197	937007.49	3845776.83	FENCEGRD	737.95	
198	937054.91	3845779.52	FENCEGRD	738.08	
199	936629.70	3845838.41	FENCEGRD	737.23	
200	936589.48	3845819.00	FENCEGRD	737.27	
201	936534.55	3845757.42	FENCEGRD	737.28	
202	936519.84	3845715.24	FENCEGRD	737.50	
203	936669.93	3845857.82	FENCEGRD	737.23	
204	936717.34	3845860.52	FENCEGRD	737.26	
205	936764.76	3845863.21	FENCEGRD	737.53	
206	936812.17	3845865.90	FENCEGRD	737.54	
207	936859.58	3845868.59	FENCEGRD	737.31	
208	936907.00	3845871.28	FENCEGRD	737.31	
209	936954.41	3845873.97	FENCEGRD	737.31	
210	937001.83	3845876.67	FENCEGRD	737.31	
211	937049.24	3845879.36	FENCEGRD	737.72	
212	936621.65	3846039.68	FENCEGRD	735.66	
213	936584.71	3846021.85	FENCEGRD	735.80	
214	936547.77	3846004.02	FENCEGRD	735.68	
215	936510.82	3845986.20	FENCEGRD	735.53	

Receptor Pathway

ISCST3

216	936473.88	3845968.37	FENCEGRD	735.59	
217	936436.94	3845950.54	FENCEGRD	735.54	
218	936386.49	3845893.99	FENCEGRD	735.78	
219	936372.99	3845855.25	FENCEGRD	735.85	
220	936359.48	3845816.52	FENCEGRD	736.24	
221	936345.98	3845777.79	FENCEGRD	736.62	
222	936332.47	3845739.06	FENCEGRD	737.01	
223	936318.97	3845700.33	FENCEGRD	737.42	
224	936658.59	3846057.50	FENCEGRD	735.74	
225	936706.01	3846060.19	FENCEGRD	735.79	
226	936753.42	3846062.89	FENCEGRD	735.79	
227	936800.83	3846065.58	FENCEGRD	735.81	
228	936848.25	3846068.27	FENCEGRD	736.10	
229	936895.66	3846070.96	FENCEGRD	736.32	
230	936943.08	3846073.65	FENCEGRD	736.51	
231	936990.49	3846076.34	FENCEGRD	736.97	
232	937037.90	3846079.04	FENCEGRD	737.18	
233	936590.03	3846537.29	FENCEGRD	732.13	
234	936549.80	3846517.88	FENCEGRD	732.13	
235	936509.57	3846498.47	FENCEGRD	732.07	
236	936469.35	3846479.06	FENCEGRD	731.85	
237	936429.12	3846459.64	FENCEGRD	731.91	
238	936388.89	3846440.23	FENCEGRD	731.81	
239	936348.67	3846420.82	FENCEGRD	731.95	
240	936308.44	3846401.41	FENCEGRD	732.08	
241	936268.22	3846382.00	FENCEGRD	731.98	
242	936227.99	3846362.59	FENCEGRD	732.16	
243	936187.76	3846343.18	FENCEGRD	732.33	
244	936147.54	3846323.77	FENCEGRD	732.50	
245	936107.31	3846304.36	FENCEGRD	732.67	
246	936067.08	3846284.95	FENCEGRD	732.85	
247	936012.15	3846223.36	FENCEGRD	733.44	
248	935997.45	3846181.19	FENCEGRD	733.85	
249	935982.74	3846139.01	FENCEGRD	734.27	
250	935968.04	3846096.84	FENCEGRD	734.57	
251	935953.33	3846054.66	FENCEGRD	735.08	
252	935938.63	3846012.49	FENCEGRD	735.52	
253	935923.93	3845970.31	FENCEGRD	735.90	
254	935909.22	3845928.14	FENCEGRD	736.36	

Receptor Pathway

ISCST3

255	935894.52	3845885.96	FENCEGRD	736.85	
256	935879.81	3845843.79	FENCEGRD	737.50	
257	935865.11	3845801.61	FENCEGRD	737.92	
258	935850.40	3845759.44	FENCEGRD	738.56	
259	935835.70	3845717.27	FENCEGRD	739.06	
260	935820.99	3845675.09	FENCEGRD	739.78	
261	936630.25	3846556.70	FENCEGRD	732.40	
262	936677.67	3846559.39	FENCEGRD	732.65	
263	936725.08	3846562.08	FENCEGRD	732.88	
264	936772.49	3846564.77	FENCEGRD	733.13	
265	936819.91	3846567.47	FENCEGRD	733.38	
266	936867.32	3846570.16	FENCEGRD	733.73	
267	936914.73	3846572.85	FENCEGRD	734.01	
268	936962.15	3846575.54	FENCEGRD	734.25	
269	937009.56	3846578.23	FENCEGRD	734.41	
270	937084.11	3845706.19	FENCEGRD	738.88	
271	937087.14	3845657.40	FENCEGRD	739.28	
272	937090.17	3845608.60	FENCEGRD	739.78	
273	937093.20	3845559.81	FENCEGRD	740.28	
274	937096.23	3845511.02	FENCEGRD	740.72	
275	937099.26	3845462.23	FENCEGRD	741.49	
276	937102.29	3845413.43	FENCEGRD	741.99	
277	937105.32	3845364.64	FENCEGRD	742.57	
278	937108.35	3845315.85	FENCEGRD	743.28	
279	937121.48	3845735.01	FENCEGRD	738.95	
280	937081.93	3845770.12	FENCEGRD	738.46	
281	937134.01	3845709.29	FENCEGRD	739.29	
282	937137.04	3845660.49	FENCEGRD	739.51	
283	937140.07	3845611.70	FENCEGRD	740.00	
284	937143.10	3845562.91	FENCEGRD	740.50	
285	937146.13	3845514.12	FENCEGRD	740.98	
286	937149.16	3845465.32	FENCEGRD	741.69	
287	937152.19	3845416.53	FENCEGRD	742.08	
288	937155.22	3845367.74	FENCEGRD	742.78	
289	937158.25	3845318.95	FENCEGRD	743.28	
290	937214.33	3845755.49	FENCEGRD	739.41	
291	937194.84	3845795.50	FENCEGRD	739.13	
292	937133.31	3845850.12	FENCEGRD	738.55	
293	937091.27	3845864.74	FENCEGRD	738.17	

Receptor Pathway

ISCST3

294	937233.82	3845715.48	FENCEGRD	740.00	
295	937236.85	3845666.69	FENCEGRD	740.37	
296	937239.88	3845617.90	FENCEGRD	740.69	
297	937242.91	3845569.11	FENCEGRD	741.18	
298	937245.94	3845520.31	FENCEGRD	741.68	
299	937248.97	3845471.52	FENCEGRD	742.18	
300	937252.00	3845422.73	FENCEGRD	742.67	
301	937255.03	3845373.94	FENCEGRD	743.17	
302	937258.06	3845325.14	FENCEGRD	743.67	
303	937412.55	3845770.74	FENCEGRD	741.28	
304	937391.67	3845813.61	FENCEGRD	740.97	
305	937370.78	3845856.47	FENCEGRD	740.97	
306	937349.90	3845899.34	FENCEGRD	740.66	
307	937329.01	3845942.20	FENCEGRD	740.42	
308	937263.09	3846000.73	FENCEGRD	739.48	
309	937218.05	3846016.39	FENCEGRD	739.44	
310	937173.01	3846032.05	FENCEGRD	739.05	
311	937127.98	3846047.71	FENCEGRD	738.35	
312	937082.94	3846063.38	FENCEGRD	737.61	
313	937433.44	3845727.88	FENCEGRD	741.72	
314	937436.47	3845679.09	FENCEGRD	741.93	
315	937439.50	3845630.29	FENCEGRD	742.41	
316	937442.53	3845581.50	FENCEGRD	742.60	
317	937445.56	3845532.71	FENCEGRD	743.08	
318	937448.59	3845483.92	FENCEGRD	743.31	
319	937451.62	3845435.12	FENCEGRD	743.78	
320	937454.65	3845386.33	FENCEGRD	744.02	
321	937457.68	3845337.54	FENCEGRD	744.78	
322	937911.59	3845801.73	FENCEGRD	741.00	
323	937890.71	3845844.60	FENCEGRD	740.58	
324	937869.82	3845887.46	FENCEGRD	740.01	
325	937848.93	3845930.33	FENCEGRD	739.04	
326	937828.05	3845973.19	FENCEGRD	738.99	
327	937807.16	3846016.06	FENCEGRD	738.75	
328	937786.28	3846058.92	FENCEGRD	738.30	
329	937765.39	3846101.79	FENCEGRD	737.86	
330	937744.51	3846144.65	FENCEGRD	737.60	
331	937723.62	3846187.52	FENCEGRD	737.44	
332	937702.74	3846230.38	FENCEGRD	737.18	

Receptor Pathway

ISCST3

333	937681.85	3846273.25	FENCEGRD	736.61	
334	937660.96	3846316.11	FENCEGRD	736.30	
335	937595.04	3846374.64	FENCEGRD	736.30	
336	937550.01	3846390.30	FENCEGRD	736.11	
337	937504.97	3846405.96	FENCEGRD	735.60	
338	937459.93	3846421.62	FENCEGRD	734.64	
339	937414.89	3846437.28	FENCEGRD	734.65	
340	937369.86	3846452.94	FENCEGRD	734.68	
341	937324.82	3846468.60	FENCEGRD	734.79	
342	937279.78	3846484.27	FENCEGRD	734.61	
343	937234.75	3846499.93	FENCEGRD	734.54	
344	937189.71	3846515.59	FENCEGRD	734.43	
345	937144.67	3846531.25	FENCEGRD	734.38	
346	937099.64	3846546.91	FENCEGRD	734.53	
347	937054.60	3846562.57	FENCEGRD	734.59	
348	937932.48	3845758.87	FENCEGRD	741.73	
349	937935.51	3845710.08	FENCEGRD	742.23	
350	937938.54	3845661.28	FENCEGRD	742.96	
351	937941.57	3845612.49	FENCEGRD	743.67	
352	937944.60	3845563.70	FENCEGRD	744.16	
353	937947.62	3845514.90	FENCEGRD	744.52	
354	937950.65	3845466.11	FENCEGRD	745.01	
355	937953.68	3845417.32	FENCEGRD	745.51	
356	937956.71	3845368.53	FENCEGRD	746.00	

Discrete Polar Receptors

Option not in use

Plant Boundary Receptors

Cartesian Plant Boundary

Primary

Record Number	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Group Name (Optional)	Terrain Elevations (Optional)	Flagpole Heights [m] (Optional)
1	937059.16	3845704.64	FENCEPRI	738.84	
2	937083.40	3845314.30	FENCEPRI	743.28	
3	936702.13	3845295.37	FENCEPRI	743.85	
4	936679.85	3845683.10	FENCEPRI	738.70	

Receptor Pathway

ISCST3

Intermediate

Option not in use

Polar Plant Boundary

Option not in use

Receptor Groups

Record Number	Group ID	Group Description
1	FENCEPRI	Cartesian plant boundary Primary Receptors
2	NPOL1	Receptors generated from Non-Uniform Polar Grid
3	FENCEGRD	Receptors generated from Fenceline Grid

Building Downwash Information

Option not in use

Emission Rate Units for Output

For Concentration

Unit Factor:	1E6
Emission Unit Label:	GRAMS/SEC
Concentration Unit Label:	MICROGRAMS/M**3

Data for Particulates

Option not in use

Variable Emission Rate

Seasonally Emission Rate Variation

Option not in use

Monthly Emission Rate Variation

Option not in use

Hourly Emission Rate Variation

Option not in use

Wind Speed / Stability Category Emission Rate Variation

Option not in use

Season / Hour-of-Day Emission Rate Variation

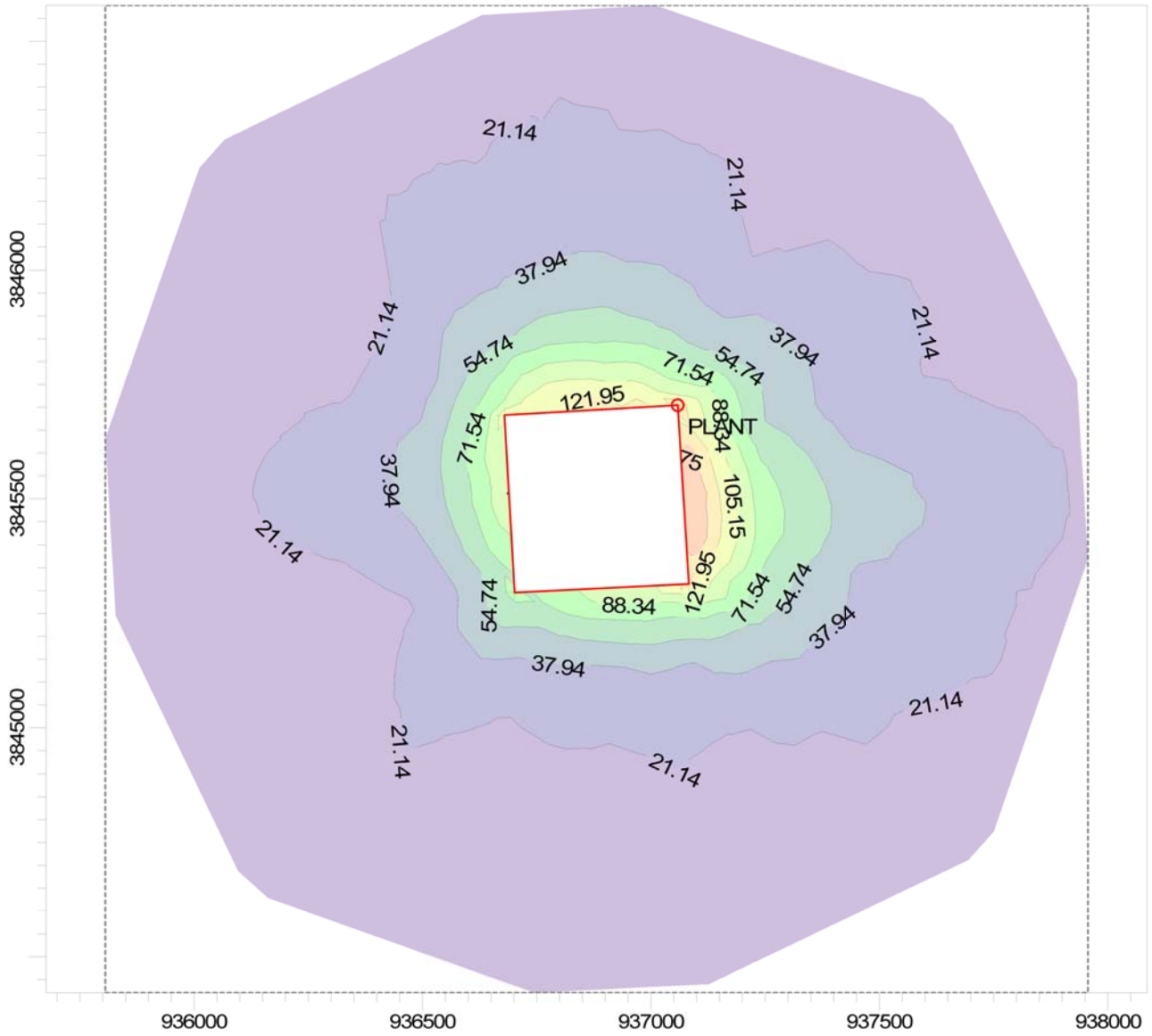
Option not in use

Season / Hour-of-Day / Day-of-Week Emission Rate Variation

Option not in use

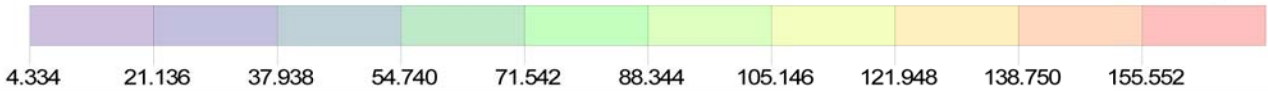
PROJECT TITLE:

**Lane Ranch
PM10 24 hour fugitive**



PLOT FILE OF HIGH 1ST HIGH 24-HR VALUES FOR SOURCE GROUP: ALL

ug/m³



COMMENTS:

Unit Emission Factor (1 g/s)

SOURCES:

1

COMPANY NAME:

RECEPTORS:

360

MODELER:

OUTPUT TYPE:

Concentration

SCALE:

1:14,704

0

0.5 km

MAX:

155.55183 ug/m³

DATE:

11/14/2008

PROJECT NO.:

Control Pathway

ISCST3

Dispersion Options

Titles Lane Ranch - Lancaster PM2.5 combustion	
Dispersion Options <input type="checkbox"/> Regulatory Default <input checked="" type="checkbox"/> Non-Default Options	Dispersion Coefficient Urban
<input type="checkbox"/> No stack-tip downwash <input type="checkbox"/> Missing data processing routine <input checked="" type="checkbox"/> By-pass the calms processing routine <input type="checkbox"/> Gradual plume rise <input type="checkbox"/> No buoyancy-included dispersion <input type="checkbox"/> Vertical term adjustment if HE > ZI <input type="checkbox"/> TOXICS	Output Type <input checked="" type="checkbox"/> Concentration <input type="checkbox"/> Total Deposition (Dry & Wet) <input type="checkbox"/> Dry Deposition <input type="checkbox"/> Wet Deposition
<input type="checkbox"/> SCIM (Sampled Chronological Input Model) <input type="checkbox"/> Gas Dry Deposition <input type="checkbox"/> Optimized Area Source and Dry Depletion Algorithms <input type="checkbox"/> Season by Hour-of-Day Output Option	Plume Depletion <input checked="" type="checkbox"/> Dry Removal <input type="checkbox"/> Wet Removal





















Pollutant / Averaging Time / Terrain Options

Pollutant Type OTHER - 'PM2.5'	Exponential Decay <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Averaging Time Options Hours <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 6 <input type="checkbox"/> 8 <input type="checkbox"/> 12 <input checked="" type="checkbox"/> 24 <input type="checkbox"/> Month <input type="checkbox"/> Period <input type="checkbox"/> Annual	Terrain Height Options <input type="checkbox"/> Flat <input checked="" type="checkbox"/> Elevated SO: Meters RE: Meters TG: Meters
Flagpole Receptors <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Default Height = 2.00 m	Terrain Calculation Algorithms Simple + Complex Terrain

Output Pathway

ISCST3

Tabular Printed Outputs

Short Term Averaging Period	RECTABLE Highest Values Table										MAXTABLE Maximum Values Table	DAYTABLE Daily Values Table
	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th		
ALL												No
24												No

Output Pathway

ISCST3

Contour Plot Files (PLOTFILE)

Path for PLOTFILES: LRPM2V.IS

Averaging Period	Source Group ID	High Value	File Name
24	ALL	1st	24H1GALL.PLT

Building Downwash Information

Option not in use

Emission Rate Units for Output

For Concentration

Unit Factor:	1E6
Emission Unit Label:	GRAMS/SEC
Concentration Unit Label:	MICROGRAMS/M**3

Data for Particulates

Option not in use

Variable Emission Rate

Seasonally Emission Rate Variation

Option not in use

Monthly Emission Rate Variation

Option not in use

Hourly Emission Rate Variation

Option not in use

Wind Speed / Stability Category Emission Rate Variation

Option not in use

Season / Hour-of-Day Emission Rate Variation

Option not in use

Season / Hour-of-Day / Day-of-Week Emission Rate Variation

Option not in use

Meteorology Pathway

ISCST3

Met Input Data

Meteorological Input Data File and Format

Filename: C:\Data\Met\DryDep\Deposition MET\lancastr.dep

Format Type: Default ASCII Format

Anemometer Height

Height = 10.00 [m]

Optional Wind Direction

Rotation [deg]:

Surface Meteorological Station

Station No.: 51117 Location [m] (Optional):

Year: 1981 X Coord.:

Y Coord.:

Station Name:

Upper Air Meteorological Station

Station No.: 99999 Location [m] (Optional):

Year: 1981 X Coord.:

Y Coord.:

Station Name:

Data Period

Read All Met. File?

Yes

No

Wind Speed Categories

Stability Category	Wind Speed [m/s]	Stability Category	Wind Speed [m/s]
A	1.54	D	8.23
B	3.09	E	10.8
C	5.14	F	No Upper Bound

Receptor Pathway

ISCST3

Terrain Elevations and Flagpole Heights for Network Grids

Uniform Cartesian Grid

Option not in use

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
				Option not Selected

Non-Uniform Cartesian Grid

Option not in use

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
				Option not Selected

Uniform Polar Grid

Option not in use

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
				Option not Selected

Non-Uniform Polar Grid

Option not in use

Receptor Network ID	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Terrain Elevations (Optional)	Flagpole Heights (Optional)
				Option not Selected

Source Pathway - Source Inputs

ISCST3

Point Sources

No Point Sources Specified

Volume Sources

No Volume Sources Specified

Area Sources

No Area Sources Specified

Open Pit Sources

No Open Pit Sources Specified

Circular Area Sources

No Circular Area Sources Specified

Polygon Area Sources

No Polygon Area Sources Specified

Flare Sources

No Flare Sources Specified

Source Pathway - Source Inputs

ISCST3

Line Sources

Source Type	Source ID	Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
LINE	SLINE1	50.00	0.20000		936706.66	3845685.29	738.69	5.00
			0.20000		936738.73	3845295.34	743.75	5.00
	SLINE2	50.00	0.20000		936787.08	3845689.90	738.69	5.00
			0.20000		936819.15	3845299.95	743.48	5.00
	SLINE3	50.00	0.20000		936870.41	3845694.36	738.71	5.00
			0.20000		936902.48	3845304.41	743.27	5.00
	SLINE4	50.00	0.20000		936948.41	3845698.53	738.71	5.00
			0.20000		936980.48	3845308.58	743.32	5.00
	SLINE5	50.00	0.20000		937026.29	3845702.70	738.76	5.00
			0.20000		937058.36	3845312.75	743.29	5.00

Source Pathway - Source Inputs

ISCST3

Volume Sources Generated from Line Sources

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimension [m]	Initial Vertical Dimension [m]
SLINE1	L0000446	936708.74	3845660.33	739.01	5.00	0.04000	50.00		39.69	2.33
	L0000447	936715.73	3845575.29	740.12	5.00	0.04000	50.00		39.69	2.33
	L0000448	936722.72	3845490.25	741.22	5.00	0.04000	50.00		39.69	2.33
	L0000449	936729.71	3845405.21	742.32	5.00	0.04000	50.00		39.69	2.33
	L0000450	936736.70	3845320.17	743.43	5.00	0.04000	50.00		39.69	2.33
SLINE2	L0000451	936789.11	3845665.08	739.00	5.00	0.04000	50.00		39.69	2.33
	L0000452	936796.10	3845580.04	740.04	5.00	0.04000	50.00		39.69	2.33
	L0000453	936803.09	3845495.00	741.08	5.00	0.04000	50.00		39.69	2.33
	L0000454	936810.09	3845409.96	742.13	5.00	0.04000	50.00		39.69	2.33
	L0000455	936817.08	3845324.92	743.17	5.00	0.04000	50.00		39.69	2.33
SLINE3	L0000456	936872.49	3845669.33	739.00	5.00	0.04000	50.00		39.66	2.33
	L0000457	936879.48	3845584.35	740.00	5.00	0.04000	50.00		39.66	2.33
	L0000458	936886.47	3845499.38	740.99	5.00	0.04000	50.00		39.66	2.33
	L0000459	936893.46	3845414.40	741.98	5.00	0.04000	50.00		39.66	2.33
	L0000460	936900.45	3845329.42	742.98	5.00	0.04000	50.00		39.66	2.33
SLINE5	L0000461	937028.36	3845677.83	739.05	5.00	0.04000	50.00		39.69	2.33
	L0000462	937035.35	3845592.79	740.04	5.00	0.04000	50.00		39.69	2.33
	L0000463	937042.34	3845507.75	741.02	5.00	0.04000	50.00		39.69	2.33
	L0000464	937049.34	3845422.71	742.01	5.00	0.04000	50.00		39.69	2.33
	L0000465	937056.33	3845337.67	743.00	5.00	0.04000	50.00		39.69	2.33
SLINE4	L0000466	936950.49	3845673.58	739.00	5.00	0.04000	50.00		39.69	2.33
	L0000467	936957.48	3845588.54	740.01	5.00	0.04000	50.00		39.69	2.33
	L0000468	936964.47	3845503.50	741.02	5.00	0.04000	50.00		39.69	2.33
	L0000469	936971.46	3845418.46	742.02	5.00	0.04000	50.00		39.69	2.33
	L0000470	936978.45	3845333.42	743.03	5.00	0.04000	50.00		39.69	2.33

Receptor Pathway

ISCST3

Receptor Networks

Note: Terrain Elevations and Flagpole Heights for Network Grids are in Page RE2 - 1 (If applicable)
Generated Discrete Receptors for Multi-Tier (Risk) Grid and Receptor Locations for Fenceline Grid are in Page RE3 - 1 (If applicable)

Uniform Cartesian Grid

Option not in use

Non-Uniform Cartesian Grid

Option not in use

Uniform Polar Grid

Option not in use

Non-Uniform Polar Grid

Option not in use

Discrete Receptors

Discrete Cartesian Receptors

Record Number	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Group Name (Optional)	Terrain Elevations (Optional)	Flagpole Heights [m] (Optional)
1	937084.64	3845289.33	FENCEGRD	743.54	
2	937036.98	3845286.96	FENCEGRD	743.53	
3	936989.32	3845284.60	FENCEGRD	743.53	
4	936941.66	3845282.23	FENCEGRD	743.52	
5	936894.00	3845279.87	FENCEGRD	743.61	
6	936846.34	3845277.50	FENCEGRD	743.87	
7	936798.68	3845275.13	FENCEGRD	743.93	
8	936751.02	3845272.77	FENCEGRD	744.17	
9	936703.36	3845270.40	FENCEGRD	744.20	
10	937113.21	3845251.85	FENCEGRD	743.93	
11	937148.78	3845291.63	FENCEGRD	743.55	
12	937087.11	3845239.39	FENCEGRD	744.04	
13	937039.46	3845237.02	FENCEGRD	744.04	
14	936991.80	3845234.66	FENCEGRD	744.05	
15	936944.14	3845232.29	FENCEGRD	744.33	
16	936896.48	3845229.93	FENCEGRD	744.33	
17	936848.82	3845227.56	FENCEGRD	744.63	
18	936801.16	3845225.20	FENCEGRD	744.92	
19	936753.50	3845222.83	FENCEGRD	745.12	
20	936705.84	3845220.46	FENCEGRD	745.21	

Receptor Pathway

ISCST3

21	937132.67	3845158.89	FENCEGRD	744.88	
22	937173.26	3845178.27	FENCEGRD	744.71	
23	937228.59	3845240.15	FENCEGRD	744.15	
24	937243.32	3845282.65	FENCEGRD	744.00	
25	937092.07	3845139.51	FENCEGRD	745.13	
26	937044.41	3845137.15	FENCEGRD	745.36	
27	936996.76	3845134.78	FENCEGRD	745.44	
28	936949.10	3845132.42	FENCEGRD	745.65	
29	936901.44	3845130.05	FENCEGRD	745.75	
30	936853.78	3845127.68	FENCEGRD	746.00	
31	936806.12	3845125.32	FENCEGRD	746.25	
32	936758.46	3845122.95	FENCEGRD	746.31	
33	936710.80	3845120.59	FENCEGRD	746.39	
34	937139.27	3844957.56	FENCEGRD	747.23	
35	937176.55	3844975.35	FENCEGRD	746.80	
36	937213.82	3844993.15	FENCEGRD	746.56	
37	937251.10	3845010.95	FENCEGRD	746.15	
38	937288.38	3845028.74	FENCEGRD	745.99	
39	937325.66	3845046.54	FENCEGRD	745.83	
40	937376.47	3845103.37	FENCEGRD	745.59	
41	937390.01	3845142.39	FENCEGRD	745.52	
42	937403.54	3845181.42	FENCEGRD	745.38	
43	937417.07	3845220.45	FENCEGRD	745.11	
44	937430.61	3845259.48	FENCEGRD	744.96	
45	937444.14	3845298.51	FENCEGRD	745.00	
46	937101.99	3844939.76	FENCEGRD	747.60	
47	937054.33	3844937.39	FENCEGRD	747.99	
48	937006.67	3844935.03	FENCEGRD	748.24	
49	936959.01	3844932.66	FENCEGRD	748.29	
50	936911.35	3844930.30	FENCEGRD	748.59	
51	936863.69	3844927.93	FENCEGRD	748.76	
52	936816.04	3844925.56	FENCEGRD	748.94	
53	936768.38	3844923.20	FENCEGRD	749.40	
54	936720.72	3844920.83	FENCEGRD	749.78	
55	937167.37	3844459.75	FENCEGRD	755.51	
56	937207.96	3844479.13	FENCEGRD	754.87	
57	937248.56	3844498.51	FENCEGRD	754.38	
58	937289.15	3844517.89	FENCEGRD	753.82	
59	937329.74	3844537.27	FENCEGRD	753.09	

Receptor Pathway

ISCST3

60	937370.33	3844556.65	FENCEGRD	752.59	
61	937410.93	3844576.03	FENCEGRD	752.09	
62	937451.52	3844595.40	FENCEGRD	751.81	
63	937492.11	3844614.78	FENCEGRD	751.71	
64	937532.70	3844634.16	FENCEGRD	751.37	
65	937573.29	3844653.54	FENCEGRD	751.18	
66	937613.89	3844672.92	FENCEGRD	751.00	
67	937654.48	3844692.30	FENCEGRD	750.89	
68	937695.07	3844711.68	FENCEGRD	751.14	
69	937750.40	3844773.55	FENCEGRD	750.97	
70	937765.14	3844816.05	FENCEGRD	750.57	
71	937779.87	3844858.55	FENCEGRD	750.06	
72	937794.61	3844901.05	FENCEGRD	749.72	
73	937809.35	3844943.55	FENCEGRD	749.30	
74	937824.08	3844986.04	FENCEGRD	749.00	
75	937838.82	3845028.54	FENCEGRD	748.76	
76	937853.56	3845071.04	FENCEGRD	748.48	
77	937868.29	3845113.54	FENCEGRD	748.23	
78	937883.03	3845156.04	FENCEGRD	747.81	
79	937897.77	3845198.53	FENCEGRD	747.38	
80	937912.50	3845241.03	FENCEGRD	747.27	
81	937927.24	3845283.53	FENCEGRD	746.85	
82	937941.98	3845326.03	FENCEGRD	746.43	
83	937126.78	3844440.37	FENCEGRD	756.27	
84	937079.12	3844438.01	FENCEGRD	756.44	
85	937031.46	3844435.64	FENCEGRD	756.61	
86	936983.80	3844433.28	FENCEGRD	756.86	
87	936936.14	3844430.91	FENCEGRD	756.95	
88	936888.48	3844428.55	FENCEGRD	757.19	
89	936840.83	3844426.18	FENCEGRD	757.49	
90	936793.17	3844423.81	FENCEGRD	757.76	
91	936745.51	3844421.45	FENCEGRD	757.93	
92	936677.17	3845293.94	FENCEGRD	743.85	
93	936674.38	3845342.40	FENCEGRD	743.01	
94	936671.60	3845390.87	FENCEGRD	742.26	
95	936668.81	3845439.34	FENCEGRD	741.46	
96	936666.03	3845487.80	FENCEGRD	740.67	
97	936663.24	3845536.27	FENCEGRD	740.17	
98	936660.46	3845584.74	FENCEGRD	739.68	

Receptor Pathway

ISCST3

99	936657.67	3845633.20	FENCEGRD	739.19	
100	936654.89	3845681.67	FENCEGRD	738.70	
101	936639.63	3845265.32	FENCEGRD	744.22	
102	936678.92	3845230.02	FENCEGRD	744.98	
103	936627.25	3845291.07	FENCEGRD	743.73	
104	936624.46	3845339.54	FENCEGRD	743.01	
105	936621.68	3845388.00	FENCEGRD	742.26	
106	936618.89	3845436.47	FENCEGRD	741.46	
107	936616.11	3845484.94	FENCEGRD	740.66	
108	936613.33	3845533.40	FENCEGRD	740.17	
109	936610.54	3845581.87	FENCEGRD	739.68	
110	936607.76	3845630.34	FENCEGRD	739.19	
111	936604.97	3845678.80	FENCEGRD	738.60	
112	936546.67	3845245.29	FENCEGRD	744.49	
113	936565.92	3845205.24	FENCEGRD	745.29	
114	936627.05	3845150.32	FENCEGRD	746.19	
115	936668.93	3845135.45	FENCEGRD	746.33	
116	936527.41	3845285.33	FENCEGRD	743.54	
117	936524.63	3845333.80	FENCEGRD	742.74	
118	936521.84	3845382.27	FENCEGRD	742.01	
119	936519.06	3845430.73	FENCEGRD	741.15	
120	936516.27	3845479.20	FENCEGRD	740.65	
121	936513.49	3845527.67	FENCEGRD	740.05	
122	936510.71	3845576.13	FENCEGRD	739.37	
123	936507.92	3845624.60	FENCEGRD	738.88	
124	936505.14	3845673.07	FENCEGRD	737.78	
125	936348.37	3845230.95	FENCEGRD	744.60	
126	936369.00	3845188.04	FENCEGRD	745.46	
127	936389.63	3845145.13	FENCEGRD	746.09	
128	936410.26	3845102.23	FENCEGRD	746.85	
129	936430.89	3845059.32	FENCEGRD	747.53	
130	936496.38	3845000.48	FENCEGRD	748.54	
131	936541.25	3844984.55	FENCEGRD	748.87	
132	936586.12	3844968.62	FENCEGRD	749.25	
133	936630.98	3844952.69	FENCEGRD	749.47	
134	936675.85	3844936.76	FENCEGRD	749.68	
135	936327.74	3845273.86	FENCEGRD	743.98	
136	936324.96	3845322.33	FENCEGRD	743.22	
137	936322.17	3845370.80	FENCEGRD	742.48	

Receptor Pathway

ISCST3

138	936319.39	3845419.26	FENCEGRD	741.72	
139	936316.60	3845467.73	FENCEGRD	740.96	
140	936313.82	3845516.20	FENCEGRD	740.24	
141	936311.04	3845564.66	FENCEGRD	739.65	
142	936308.25	3845613.13	FENCEGRD	738.90	
143	936305.47	3845661.60	FENCEGRD	737.88	
144	935849.19	3845202.27	FENCEGRD	747.52	
145	935869.82	3845159.36	FENCEGRD	748.21	
146	935890.45	3845116.46	FENCEGRD	748.93	
147	935911.08	3845073.55	FENCEGRD	749.35	
148	935931.71	3845030.64	FENCEGRD	750.05	
149	935952.34	3844987.73	FENCEGRD	750.94	
150	935972.97	3844944.82	FENCEGRD	751.47	
151	935993.60	3844901.91	FENCEGRD	752.49	
152	936014.23	3844859.00	FENCEGRD	753.38	
153	936034.86	3844816.09	FENCEGRD	754.22	
154	936055.49	3844773.18	FENCEGRD	755.23	
155	936076.12	3844730.27	FENCEGRD	755.94	
156	936096.75	3844687.36	FENCEGRD	756.65	
157	936162.24	3844628.53	FENCEGRD	757.21	
158	936207.11	3844612.60	FENCEGRD	757.22	
159	936251.97	3844596.67	FENCEGRD	757.29	
160	936296.84	3844580.74	FENCEGRD	757.39	
161	936341.71	3844564.81	FENCEGRD	757.32	
162	936386.57	3844548.88	FENCEGRD	757.41	
163	936431.44	3844532.95	FENCEGRD	757.32	
164	936476.31	3844517.02	FENCEGRD	757.43	
165	936521.17	3844501.09	FENCEGRD	757.66	
166	936566.04	3844485.16	FENCEGRD	757.80	
167	936610.91	3844469.23	FENCEGRD	757.83	
168	936655.77	3844453.31	FENCEGRD	757.76	
169	936700.64	3844437.38	FENCEGRD	758.00	
170	935828.57	3845245.18	FENCEGRD	746.80	
171	935825.78	3845293.65	FENCEGRD	746.02	
172	935823.00	3845342.12	FENCEGRD	745.12	
173	935820.21	3845390.58	FENCEGRD	744.24	
174	935817.43	3845439.05	FENCEGRD	743.48	
175	935814.64	3845487.52	FENCEGRD	742.76	
176	935811.86	3845535.98	FENCEGRD	742.17	

Receptor Pathway

ISCST3

177	935809.07	3845584.45	FENCEGRD	741.33	
178	935806.29	3845632.92	FENCEGRD	740.40	
179	936678.43	3845708.06	FENCEGRD	738.44	
180	936725.85	3845710.76	FENCEGRD	738.44	
181	936773.26	3845713.45	FENCEGRD	738.45	
182	936820.67	3845716.14	FENCEGRD	738.45	
183	936868.09	3845718.83	FENCEGRD	738.45	
184	936915.50	3845721.52	FENCEGRD	738.45	
185	936962.91	3845724.22	FENCEGRD	738.45	
186	937010.33	3845726.91	FENCEGRD	738.45	
187	937057.74	3845729.60	FENCEGRD	738.72	
188	936649.74	3845745.51	FENCEGRD	738.04	
189	936614.42	3845705.92	FENCEGRD	738.25	
190	936675.60	3845757.98	FENCEGRD	737.94	
191	936723.01	3845760.68	FENCEGRD	738.23	
192	936770.42	3845763.37	FENCEGRD	738.23	
193	936817.84	3845766.06	FENCEGRD	738.23	
194	936865.25	3845768.75	FENCEGRD	738.19	
195	936912.67	3845771.44	FENCEGRD	737.94	
196	936960.08	3845774.13	FENCEGRD	737.94	
197	937007.49	3845776.83	FENCEGRD	737.95	
198	937054.91	3845779.52	FENCEGRD	738.08	
199	936629.70	3845838.41	FENCEGRD	737.23	
200	936589.48	3845819.00	FENCEGRD	737.27	
201	936534.55	3845757.42	FENCEGRD	737.28	
202	936519.84	3845715.24	FENCEGRD	737.50	
203	936669.93	3845857.82	FENCEGRD	737.23	
204	936717.34	3845860.52	FENCEGRD	737.26	
205	936764.76	3845863.21	FENCEGRD	737.53	
206	936812.17	3845865.90	FENCEGRD	737.54	
207	936859.58	3845868.59	FENCEGRD	737.31	
208	936907.00	3845871.28	FENCEGRD	737.31	
209	936954.41	3845873.97	FENCEGRD	737.31	
210	937001.83	3845876.67	FENCEGRD	737.31	
211	937049.24	3845879.36	FENCEGRD	737.72	
212	936621.65	3846039.68	FENCEGRD	735.66	
213	936584.71	3846021.85	FENCEGRD	735.80	
214	936547.77	3846004.02	FENCEGRD	735.68	
215	936510.82	3845986.20	FENCEGRD	735.53	

Receptor Pathway

ISCST3

216	936473.88	3845968.37	FENCEGRD	735.59	
217	936436.94	3845950.54	FENCEGRD	735.54	
218	936386.49	3845893.99	FENCEGRD	735.78	
219	936372.99	3845855.25	FENCEGRD	735.85	
220	936359.48	3845816.52	FENCEGRD	736.24	
221	936345.98	3845777.79	FENCEGRD	736.62	
222	936332.47	3845739.06	FENCEGRD	737.01	
223	936318.97	3845700.33	FENCEGRD	737.42	
224	936658.59	3846057.50	FENCEGRD	735.74	
225	936706.01	3846060.19	FENCEGRD	735.79	
226	936753.42	3846062.89	FENCEGRD	735.79	
227	936800.83	3846065.58	FENCEGRD	735.81	
228	936848.25	3846068.27	FENCEGRD	736.10	
229	936895.66	3846070.96	FENCEGRD	736.32	
230	936943.08	3846073.65	FENCEGRD	736.51	
231	936990.49	3846076.34	FENCEGRD	736.97	
232	937037.90	3846079.04	FENCEGRD	737.18	
233	936590.03	3846537.29	FENCEGRD	732.13	
234	936549.80	3846517.88	FENCEGRD	732.13	
235	936509.57	3846498.47	FENCEGRD	732.07	
236	936469.35	3846479.06	FENCEGRD	731.85	
237	936429.12	3846459.64	FENCEGRD	731.91	
238	936388.89	3846440.23	FENCEGRD	731.81	
239	936348.67	3846420.82	FENCEGRD	731.95	
240	936308.44	3846401.41	FENCEGRD	732.08	
241	936268.22	3846382.00	FENCEGRD	731.98	
242	936227.99	3846362.59	FENCEGRD	732.16	
243	936187.76	3846343.18	FENCEGRD	732.33	
244	936147.54	3846323.77	FENCEGRD	732.50	
245	936107.31	3846304.36	FENCEGRD	732.67	
246	936067.08	3846284.95	FENCEGRD	732.85	
247	936012.15	3846223.36	FENCEGRD	733.44	
248	935997.45	3846181.19	FENCEGRD	733.85	
249	935982.74	3846139.01	FENCEGRD	734.27	
250	935968.04	3846096.84	FENCEGRD	734.57	
251	935953.33	3846054.66	FENCEGRD	735.08	
252	935938.63	3846012.49	FENCEGRD	735.52	
253	935923.93	3845970.31	FENCEGRD	735.90	
254	935909.22	3845928.14	FENCEGRD	736.36	

Receptor Pathway

ISCST3

255	935894.52	3845885.96	FENCEGRD	736.85	
256	935879.81	3845843.79	FENCEGRD	737.50	
257	935865.11	3845801.61	FENCEGRD	737.92	
258	935850.40	3845759.44	FENCEGRD	738.56	
259	935835.70	3845717.27	FENCEGRD	739.06	
260	935820.99	3845675.09	FENCEGRD	739.78	
261	936630.25	3846556.70	FENCEGRD	732.40	
262	936677.67	3846559.39	FENCEGRD	732.65	
263	936725.08	3846562.08	FENCEGRD	732.88	
264	936772.49	3846564.77	FENCEGRD	733.13	
265	936819.91	3846567.47	FENCEGRD	733.38	
266	936867.32	3846570.16	FENCEGRD	733.73	
267	936914.73	3846572.85	FENCEGRD	734.01	
268	936962.15	3846575.54	FENCEGRD	734.25	
269	937009.56	3846578.23	FENCEGRD	734.41	
270	937084.11	3845706.19	FENCEGRD	738.88	
271	937087.14	3845657.40	FENCEGRD	739.28	
272	937090.17	3845608.60	FENCEGRD	739.78	
273	937093.20	3845559.81	FENCEGRD	740.28	
274	937096.23	3845511.02	FENCEGRD	740.72	
275	937099.26	3845462.23	FENCEGRD	741.49	
276	937102.29	3845413.43	FENCEGRD	741.99	
277	937105.32	3845364.64	FENCEGRD	742.57	
278	937108.35	3845315.85	FENCEGRD	743.28	
279	937121.48	3845735.01	FENCEGRD	738.95	
280	937081.93	3845770.12	FENCEGRD	738.46	
281	937134.01	3845709.29	FENCEGRD	739.29	
282	937137.04	3845660.49	FENCEGRD	739.51	
283	937140.07	3845611.70	FENCEGRD	740.00	
284	937143.10	3845562.91	FENCEGRD	740.50	
285	937146.13	3845514.12	FENCEGRD	740.98	
286	937149.16	3845465.32	FENCEGRD	741.69	
287	937152.19	3845416.53	FENCEGRD	742.08	
288	937155.22	3845367.74	FENCEGRD	742.78	
289	937158.25	3845318.95	FENCEGRD	743.28	
290	937214.33	3845755.49	FENCEGRD	739.41	
291	937194.84	3845795.50	FENCEGRD	739.13	
292	937133.31	3845850.12	FENCEGRD	738.55	
293	937091.27	3845864.74	FENCEGRD	738.17	

Receptor Pathway

ISCST3

294	937233.82	3845715.48	FENCEGRD	740.00	
295	937236.85	3845666.69	FENCEGRD	740.37	
296	937239.88	3845617.90	FENCEGRD	740.69	
297	937242.91	3845569.11	FENCEGRD	741.18	
298	937245.94	3845520.31	FENCEGRD	741.68	
299	937248.97	3845471.52	FENCEGRD	742.18	
300	937252.00	3845422.73	FENCEGRD	742.67	
301	937255.03	3845373.94	FENCEGRD	743.17	
302	937258.06	3845325.14	FENCEGRD	743.67	
303	937412.55	3845770.74	FENCEGRD	741.28	
304	937391.67	3845813.61	FENCEGRD	740.97	
305	937370.78	3845856.47	FENCEGRD	740.97	
306	937349.90	3845899.34	FENCEGRD	740.66	
307	937329.01	3845942.20	FENCEGRD	740.42	
308	937263.09	3846000.73	FENCEGRD	739.48	
309	937218.05	3846016.39	FENCEGRD	739.44	
310	937173.01	3846032.05	FENCEGRD	739.05	
311	937127.98	3846047.71	FENCEGRD	738.35	
312	937082.94	3846063.38	FENCEGRD	737.61	
313	937433.44	3845727.88	FENCEGRD	741.72	
314	937436.47	3845679.09	FENCEGRD	741.93	
315	937439.50	3845630.29	FENCEGRD	742.41	
316	937442.53	3845581.50	FENCEGRD	742.60	
317	937445.56	3845532.71	FENCEGRD	743.08	
318	937448.59	3845483.92	FENCEGRD	743.31	
319	937451.62	3845435.12	FENCEGRD	743.78	
320	937454.65	3845386.33	FENCEGRD	744.02	
321	937457.68	3845337.54	FENCEGRD	744.78	
322	937911.59	3845801.73	FENCEGRD	741.00	
323	937890.71	3845844.60	FENCEGRD	740.58	
324	937869.82	3845887.46	FENCEGRD	740.01	
325	937848.93	3845930.33	FENCEGRD	739.04	
326	937828.05	3845973.19	FENCEGRD	738.99	
327	937807.16	3846016.06	FENCEGRD	738.75	
328	937786.28	3846058.92	FENCEGRD	738.30	
329	937765.39	3846101.79	FENCEGRD	737.86	
330	937744.51	3846144.65	FENCEGRD	737.60	
331	937723.62	3846187.52	FENCEGRD	737.44	
332	937702.74	3846230.38	FENCEGRD	737.18	

Receptor Pathway

ISCST3

333	937681.85	3846273.25	FENCEGRD	736.61	
334	937660.96	3846316.11	FENCEGRD	736.30	
335	937595.04	3846374.64	FENCEGRD	736.30	
336	937550.01	3846390.30	FENCEGRD	736.11	
337	937504.97	3846405.96	FENCEGRD	735.60	
338	937459.93	3846421.62	FENCEGRD	734.64	
339	937414.89	3846437.28	FENCEGRD	734.65	
340	937369.86	3846452.94	FENCEGRD	734.68	
341	937324.82	3846468.60	FENCEGRD	734.79	
342	937279.78	3846484.27	FENCEGRD	734.61	
343	937234.75	3846499.93	FENCEGRD	734.54	
344	937189.71	3846515.59	FENCEGRD	734.43	
345	937144.67	3846531.25	FENCEGRD	734.38	
346	937099.64	3846546.91	FENCEGRD	734.53	
347	937054.60	3846562.57	FENCEGRD	734.59	
348	937932.48	3845758.87	FENCEGRD	741.73	
349	937935.51	3845710.08	FENCEGRD	742.23	
350	937938.54	3845661.28	FENCEGRD	742.96	
351	937941.57	3845612.49	FENCEGRD	743.67	
352	937944.60	3845563.70	FENCEGRD	744.16	
353	937947.62	3845514.90	FENCEGRD	744.52	
354	937950.65	3845466.11	FENCEGRD	745.01	
355	937953.68	3845417.32	FENCEGRD	745.51	
356	937956.71	3845368.53	FENCEGRD	746.00	

Discrete Polar Receptors

Option not in use

Plant Boundary Receptors

Cartesian Plant Boundary

Primary

Record Number	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Group Name (Optional)	Terrain Elevations (Optional)	Flagpole Heights [m] (Optional)
1	937059.16	3845704.64	FENCEPRI	738.84	
2	937083.40	3845314.30	FENCEPRI	743.28	
3	936702.13	3845295.37	FENCEPRI	743.85	
4	936679.85	3845683.10	FENCEPRI	738.70	

Receptor Pathway

ISCST3

Intermediate

Option not in use

Polar Plant Boundary

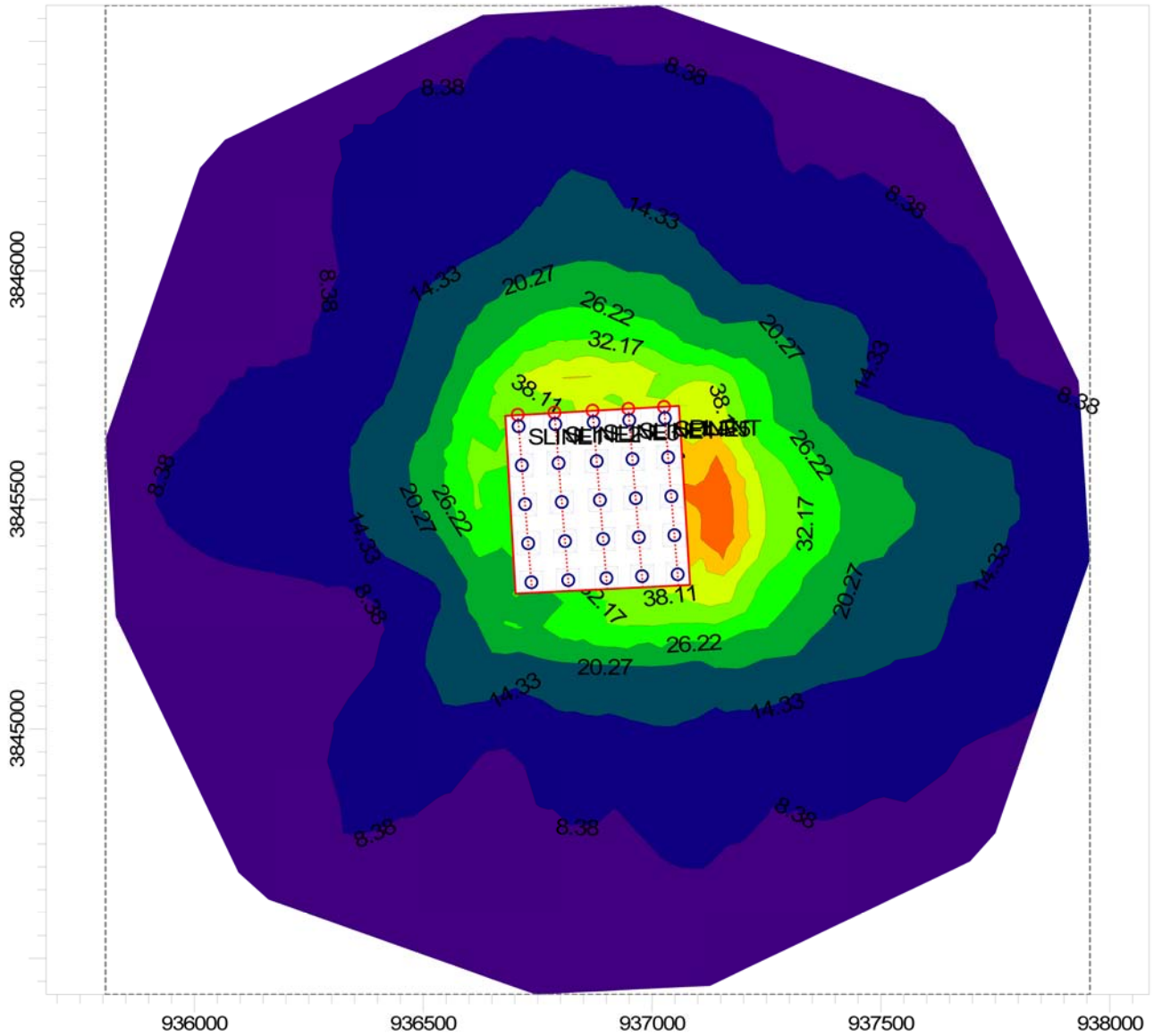
Option not in use

Receptor Groups

Record Number	Group ID	Group Description
1	FENCEPRI	Cartesian plant boundary Primary Receptors
2	NPOL1	Receptors generated from Non-Uniform Polar Grid
3	FENCEGRD	Receptors generated from Fenceline Grid

PROJECT TITLE:

**Lane Ranch
PM2.5 Combustion**



PLOT FILE OF HIGH 1ST HIGH 24-HR VALUES FOR SOURCE GROUP: ALL

ug/m³



2.433 8.380 14.327 20.273 26.220 32.167 38.113 44.060 50.007 55.954

COMMENTS:

Unit Emission Factor (1 g/s)

SOURCES:

5

COMPANY NAME:

RECEPTORS:

360

MODELER:

OUTPUT TYPE:

Concentration

SCALE:

1:14,704

0

0.5 km

MAX:

55.95355 ug/m³

DATE:

11/14/2008

PROJECT NO.:

Control Pathway

ISCST3

Dispersion Options

Titles Lane Ranch - Lancaster PM2.5 - 1hr & 24hr	
Dispersion Options <input type="checkbox"/> Regulatory Default <input checked="" type="checkbox"/> Non-Default Options	Dispersion Coefficient Urban
<input type="checkbox"/> No stack-tip downwash <input type="checkbox"/> Missing data processing routine <input checked="" type="checkbox"/> By-pass the calms processing routine <input type="checkbox"/> Gradual plume rise <input type="checkbox"/> No buoyancy-included dispersion <input type="checkbox"/> Vertical term adjustment if HE > ZI <input type="checkbox"/> TOXICS	Output Type <input checked="" type="checkbox"/> Concentration <input type="checkbox"/> Total Deposition (Dry & Wet) <input type="checkbox"/> Dry Deposition <input type="checkbox"/> Wet Deposition
<input type="checkbox"/> SCIM (Sampled Chronological Input Model) <input type="checkbox"/> Gas Dry Deposition <input type="checkbox"/> Optimized Area Source and Dry Depletion Algorithms <input type="checkbox"/> Season by Hour-of-Day Output Option	Plume Depletion <input checked="" type="checkbox"/> Dry Removal <input type="checkbox"/> Wet Removal

Pollutant / Averaging Time / Terrain Options

Pollutant Type OTHER - `PM2.5	Exponential Decay <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Averaging Time Options Hours <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 6 <input type="checkbox"/> 8 <input type="checkbox"/> 12 <input checked="" type="checkbox"/> 24 <input type="checkbox"/> Month <input type="checkbox"/> Period <input type="checkbox"/> Annual	Terrain Height Options <input type="checkbox"/> Flat <input checked="" type="checkbox"/> Elevated SO: Meters RE: Meters TG: Meters
Flagpole Receptors <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Default Height = 2.00 m	Terrain Calculation Algorithms Simple + Complex Terrain

Receptor Networks

Note: Terrain Elevations and Flagpole Heights for Network Grids are in Page RE2 - 1 (If applicable)
 Generated Discrete Receptors for Multi-Tier (Risk) Grid and Receptor Locations for Fenceline Grid are in Page RE3 - 1 (If applicable)

Uniform Cartesian Grid

Option not in use

Non-Uniform Cartesian Grid

Option not in use

Uniform Polar Grid

Option not in use

Non-Uniform Polar Grid

Option not in use

Discrete Receptors

Discrete Cartesian Receptors

Record Number	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Group Name (Optional)	Terrain Elevations (Optional)	Flagpole Heights [m] (Optional)
1	937084.64	3845289.33	FENCEGRD	743.54	
2	937036.98	3845286.96	FENCEGRD	743.53	
3	936989.32	3845284.60	FENCEGRD	743.53	
4	936941.66	3845282.23	FENCEGRD	743.52	
5	936894.00	3845279.87	FENCEGRD	743.61	
6	936846.34	3845277.50	FENCEGRD	743.87	
7	936798.68	3845275.13	FENCEGRD	743.93	
8	936751.02	3845272.77	FENCEGRD	744.17	
9	936703.36	3845270.40	FENCEGRD	744.20	
10	937113.21	3845251.85	FENCEGRD	743.93	
11	937148.78	3845291.63	FENCEGRD	743.55	
12	937087.11	3845239.39	FENCEGRD	744.04	
13	937039.46	3845237.02	FENCEGRD	744.04	
14	936991.80	3845234.66	FENCEGRD	744.05	
15	936944.14	3845232.29	FENCEGRD	744.33	
16	936896.48	3845229.93	FENCEGRD	744.33	
17	936848.82	3845227.56	FENCEGRD	744.63	
18	936801.16	3845225.20	FENCEGRD	744.92	
19	936753.50	3845222.83	FENCEGRD	745.12	
20	936705.84	3845220.46	FENCEGRD	745.21	

Receptor Pathway

ISCST3

21	937132.67	3845158.89	FENCEGRD	744.88	
22	937173.26	3845178.27	FENCEGRD	744.71	
23	937228.59	3845240.15	FENCEGRD	744.15	
24	937243.32	3845282.65	FENCEGRD	744.00	
25	937092.07	3845139.51	FENCEGRD	745.13	
26	937044.41	3845137.15	FENCEGRD	745.36	
27	936996.76	3845134.78	FENCEGRD	745.44	
28	936949.10	3845132.42	FENCEGRD	745.65	
29	936901.44	3845130.05	FENCEGRD	745.75	
30	936853.78	3845127.68	FENCEGRD	746.00	
31	936806.12	3845125.32	FENCEGRD	746.25	
32	936758.46	3845122.95	FENCEGRD	746.31	
33	936710.80	3845120.59	FENCEGRD	746.39	
34	937139.27	3844957.56	FENCEGRD	747.23	
35	937176.55	3844975.35	FENCEGRD	746.80	
36	937213.82	3844993.15	FENCEGRD	746.56	
37	937251.10	3845010.95	FENCEGRD	746.15	
38	937288.38	3845028.74	FENCEGRD	745.99	
39	937325.66	3845046.54	FENCEGRD	745.83	
40	937376.47	3845103.37	FENCEGRD	745.59	
41	937390.01	3845142.39	FENCEGRD	745.52	
42	937403.54	3845181.42	FENCEGRD	745.38	
43	937417.07	3845220.45	FENCEGRD	745.11	
44	937430.61	3845259.48	FENCEGRD	744.96	
45	937444.14	3845298.51	FENCEGRD	745.00	
46	937101.99	3844939.76	FENCEGRD	747.60	
47	937054.33	3844937.39	FENCEGRD	747.99	
48	937006.67	3844935.03	FENCEGRD	748.24	
49	936959.01	3844932.66	FENCEGRD	748.29	
50	936911.35	3844930.30	FENCEGRD	748.59	
51	936863.69	3844927.93	FENCEGRD	748.76	
52	936816.04	3844925.56	FENCEGRD	748.94	
53	936768.38	3844923.20	FENCEGRD	749.40	
54	936720.72	3844920.83	FENCEGRD	749.78	
55	937167.37	3844459.75	FENCEGRD	755.51	
56	937207.96	3844479.13	FENCEGRD	754.87	
57	937248.56	3844498.51	FENCEGRD	754.38	
58	937289.15	3844517.89	FENCEGRD	753.82	
59	937329.74	3844537.27	FENCEGRD	753.09	

Receptor Pathway

ISCST3

60	937370.33	3844556.65	FENCEGRD	752.59	
61	937410.93	3844576.03	FENCEGRD	752.09	
62	937451.52	3844595.40	FENCEGRD	751.81	
63	937492.11	3844614.78	FENCEGRD	751.71	
64	937532.70	3844634.16	FENCEGRD	751.37	
65	937573.29	3844653.54	FENCEGRD	751.18	
66	937613.89	3844672.92	FENCEGRD	751.00	
67	937654.48	3844692.30	FENCEGRD	750.89	
68	937695.07	3844711.68	FENCEGRD	751.14	
69	937750.40	3844773.55	FENCEGRD	750.97	
70	937765.14	3844816.05	FENCEGRD	750.57	
71	937779.87	3844858.55	FENCEGRD	750.06	
72	937794.61	3844901.05	FENCEGRD	749.72	
73	937809.35	3844943.55	FENCEGRD	749.30	
74	937824.08	3844986.04	FENCEGRD	749.00	
75	937838.82	3845028.54	FENCEGRD	748.76	
76	937853.56	3845071.04	FENCEGRD	748.48	
77	937868.29	3845113.54	FENCEGRD	748.23	
78	937883.03	3845156.04	FENCEGRD	747.81	
79	937897.77	3845198.53	FENCEGRD	747.38	
80	937912.50	3845241.03	FENCEGRD	747.27	
81	937927.24	3845283.53	FENCEGRD	746.85	
82	937941.98	3845326.03	FENCEGRD	746.43	
83	937126.78	3844440.37	FENCEGRD	756.27	
84	937079.12	3844438.01	FENCEGRD	756.44	
85	937031.46	3844435.64	FENCEGRD	756.61	
86	936983.80	3844433.28	FENCEGRD	756.86	
87	936936.14	3844430.91	FENCEGRD	756.95	
88	936888.48	3844428.55	FENCEGRD	757.19	
89	936840.83	3844426.18	FENCEGRD	757.49	
90	936793.17	3844423.81	FENCEGRD	757.76	
91	936745.51	3844421.45	FENCEGRD	757.93	
92	936677.17	3845293.94	FENCEGRD	743.85	
93	936674.38	3845342.40	FENCEGRD	743.01	
94	936671.60	3845390.87	FENCEGRD	742.26	
95	936668.81	3845439.34	FENCEGRD	741.46	
96	936666.03	3845487.80	FENCEGRD	740.67	
97	936663.24	3845536.27	FENCEGRD	740.17	
98	936660.46	3845584.74	FENCEGRD	739.68	

Receptor Pathway

ISCST3

99	936657.67	3845633.20	FENCEGRD	739.19	
100	936654.89	3845681.67	FENCEGRD	738.70	
101	936639.63	3845265.32	FENCEGRD	744.22	
102	936678.92	3845230.02	FENCEGRD	744.98	
103	936627.25	3845291.07	FENCEGRD	743.73	
104	936624.46	3845339.54	FENCEGRD	743.01	
105	936621.68	3845388.00	FENCEGRD	742.26	
106	936618.89	3845436.47	FENCEGRD	741.46	
107	936616.11	3845484.94	FENCEGRD	740.66	
108	936613.33	3845533.40	FENCEGRD	740.17	
109	936610.54	3845581.87	FENCEGRD	739.68	
110	936607.76	3845630.34	FENCEGRD	739.19	
111	936604.97	3845678.80	FENCEGRD	738.60	
112	936546.67	3845245.29	FENCEGRD	744.49	
113	936565.92	3845205.24	FENCEGRD	745.29	
114	936627.05	3845150.32	FENCEGRD	746.19	
115	936668.93	3845135.45	FENCEGRD	746.33	
116	936527.41	3845285.33	FENCEGRD	743.54	
117	936524.63	3845333.80	FENCEGRD	742.74	
118	936521.84	3845382.27	FENCEGRD	742.01	
119	936519.06	3845430.73	FENCEGRD	741.15	
120	936516.27	3845479.20	FENCEGRD	740.65	
121	936513.49	3845527.67	FENCEGRD	740.05	
122	936510.71	3845576.13	FENCEGRD	739.37	
123	936507.92	3845624.60	FENCEGRD	738.88	
124	936505.14	3845673.07	FENCEGRD	737.78	
125	936348.37	3845230.95	FENCEGRD	744.60	
126	936369.00	3845188.04	FENCEGRD	745.46	
127	936389.63	3845145.13	FENCEGRD	746.09	
128	936410.26	3845102.23	FENCEGRD	746.85	
129	936430.89	3845059.32	FENCEGRD	747.53	
130	936496.38	3845000.48	FENCEGRD	748.54	
131	936541.25	3844984.55	FENCEGRD	748.87	
132	936586.12	3844968.62	FENCEGRD	749.25	
133	936630.98	3844952.69	FENCEGRD	749.47	
134	936675.85	3844936.76	FENCEGRD	749.68	
135	936327.74	3845273.86	FENCEGRD	743.98	
136	936324.96	3845322.33	FENCEGRD	743.22	
137	936322.17	3845370.80	FENCEGRD	742.48	

Receptor Pathway

ISCST3

138	936319.39	3845419.26	FENCEGRD	741.72	
139	936316.60	3845467.73	FENCEGRD	740.96	
140	936313.82	3845516.20	FENCEGRD	740.24	
141	936311.04	3845564.66	FENCEGRD	739.65	
142	936308.25	3845613.13	FENCEGRD	738.90	
143	936305.47	3845661.60	FENCEGRD	737.88	
144	935849.19	3845202.27	FENCEGRD	747.52	
145	935869.82	3845159.36	FENCEGRD	748.21	
146	935890.45	3845116.46	FENCEGRD	748.93	
147	935911.08	3845073.55	FENCEGRD	749.35	
148	935931.71	3845030.64	FENCEGRD	750.05	
149	935952.34	3844987.73	FENCEGRD	750.94	
150	935972.97	3844944.82	FENCEGRD	751.47	
151	935993.60	3844901.91	FENCEGRD	752.49	
152	936014.23	3844859.00	FENCEGRD	753.38	
153	936034.86	3844816.09	FENCEGRD	754.22	
154	936055.49	3844773.18	FENCEGRD	755.23	
155	936076.12	3844730.27	FENCEGRD	755.94	
156	936096.75	3844687.36	FENCEGRD	756.65	
157	936162.24	3844628.53	FENCEGRD	757.21	
158	936207.11	3844612.60	FENCEGRD	757.22	
159	936251.97	3844596.67	FENCEGRD	757.29	
160	936296.84	3844580.74	FENCEGRD	757.39	
161	936341.71	3844564.81	FENCEGRD	757.32	
162	936386.57	3844548.88	FENCEGRD	757.41	
163	936431.44	3844532.95	FENCEGRD	757.32	
164	936476.31	3844517.02	FENCEGRD	757.43	
165	936521.17	3844501.09	FENCEGRD	757.66	
166	936566.04	3844485.16	FENCEGRD	757.80	
167	936610.91	3844469.23	FENCEGRD	757.83	
168	936655.77	3844453.31	FENCEGRD	757.76	
169	936700.64	3844437.38	FENCEGRD	758.00	
170	935828.57	3845245.18	FENCEGRD	746.80	
171	935825.78	3845293.65	FENCEGRD	746.02	
172	935823.00	3845342.12	FENCEGRD	745.12	
173	935820.21	3845390.58	FENCEGRD	744.24	
174	935817.43	3845439.05	FENCEGRD	743.48	
175	935814.64	3845487.52	FENCEGRD	742.76	
176	935811.86	3845535.98	FENCEGRD	742.17	

Receptor Pathway

ISCST3

177	935809.07	3845584.45	FENCEGRD	741.33	
178	935806.29	3845632.92	FENCEGRD	740.40	
179	936678.43	3845708.06	FENCEGRD	738.44	
180	936725.85	3845710.76	FENCEGRD	738.44	
181	936773.26	3845713.45	FENCEGRD	738.45	
182	936820.67	3845716.14	FENCEGRD	738.45	
183	936868.09	3845718.83	FENCEGRD	738.45	
184	936915.50	3845721.52	FENCEGRD	738.45	
185	936962.91	3845724.22	FENCEGRD	738.45	
186	937010.33	3845726.91	FENCEGRD	738.45	
187	937057.74	3845729.60	FENCEGRD	738.72	
188	936649.74	3845745.51	FENCEGRD	738.04	
189	936614.42	3845705.92	FENCEGRD	738.25	
190	936675.60	3845757.98	FENCEGRD	737.94	
191	936723.01	3845760.68	FENCEGRD	738.23	
192	936770.42	3845763.37	FENCEGRD	738.23	
193	936817.84	3845766.06	FENCEGRD	738.23	
194	936865.25	3845768.75	FENCEGRD	738.19	
195	936912.67	3845771.44	FENCEGRD	737.94	
196	936960.08	3845774.13	FENCEGRD	737.94	
197	937007.49	3845776.83	FENCEGRD	737.95	
198	937054.91	3845779.52	FENCEGRD	738.08	
199	936629.70	3845838.41	FENCEGRD	737.23	
200	936589.48	3845819.00	FENCEGRD	737.27	
201	936534.55	3845757.42	FENCEGRD	737.28	
202	936519.84	3845715.24	FENCEGRD	737.50	
203	936669.93	3845857.82	FENCEGRD	737.23	
204	936717.34	3845860.52	FENCEGRD	737.26	
205	936764.76	3845863.21	FENCEGRD	737.53	
206	936812.17	3845865.90	FENCEGRD	737.54	
207	936859.58	3845868.59	FENCEGRD	737.31	
208	936907.00	3845871.28	FENCEGRD	737.31	
209	936954.41	3845873.97	FENCEGRD	737.31	
210	937001.83	3845876.67	FENCEGRD	737.31	
211	937049.24	3845879.36	FENCEGRD	737.72	
212	936621.65	3846039.68	FENCEGRD	735.66	
213	936584.71	3846021.85	FENCEGRD	735.80	
214	936547.77	3846004.02	FENCEGRD	735.68	
215	936510.82	3845986.20	FENCEGRD	735.53	

Receptor Pathway

ISCST3

216	936473.88	3845968.37	FENCEGRD	735.59	
217	936436.94	3845950.54	FENCEGRD	735.54	
218	936386.49	3845893.99	FENCEGRD	735.78	
219	936372.99	3845855.25	FENCEGRD	735.85	
220	936359.48	3845816.52	FENCEGRD	736.24	
221	936345.98	3845777.79	FENCEGRD	736.62	
222	936332.47	3845739.06	FENCEGRD	737.01	
223	936318.97	3845700.33	FENCEGRD	737.42	
224	936658.59	3846057.50	FENCEGRD	735.74	
225	936706.01	3846060.19	FENCEGRD	735.79	
226	936753.42	3846062.89	FENCEGRD	735.79	
227	936800.83	3846065.58	FENCEGRD	735.81	
228	936848.25	3846068.27	FENCEGRD	736.10	
229	936895.66	3846070.96	FENCEGRD	736.32	
230	936943.08	3846073.65	FENCEGRD	736.51	
231	936990.49	3846076.34	FENCEGRD	736.97	
232	937037.90	3846079.04	FENCEGRD	737.18	
233	936590.03	3846537.29	FENCEGRD	732.13	
234	936549.80	3846517.88	FENCEGRD	732.13	
235	936509.57	3846498.47	FENCEGRD	732.07	
236	936469.35	3846479.06	FENCEGRD	731.85	
237	936429.12	3846459.64	FENCEGRD	731.91	
238	936388.89	3846440.23	FENCEGRD	731.81	
239	936348.67	3846420.82	FENCEGRD	731.95	
240	936308.44	3846401.41	FENCEGRD	732.08	
241	936268.22	3846382.00	FENCEGRD	731.98	
242	936227.99	3846362.59	FENCEGRD	732.16	
243	936187.76	3846343.18	FENCEGRD	732.33	
244	936147.54	3846323.77	FENCEGRD	732.50	
245	936107.31	3846304.36	FENCEGRD	732.67	
246	936067.08	3846284.95	FENCEGRD	732.85	
247	936012.15	3846223.36	FENCEGRD	733.44	
248	935997.45	3846181.19	FENCEGRD	733.85	
249	935982.74	3846139.01	FENCEGRD	734.27	
250	935968.04	3846096.84	FENCEGRD	734.57	
251	935953.33	3846054.66	FENCEGRD	735.08	
252	935938.63	3846012.49	FENCEGRD	735.52	
253	935923.93	3845970.31	FENCEGRD	735.90	
254	935909.22	3845928.14	FENCEGRD	736.36	

Receptor Pathway

ISCST3

255	935894.52	3845885.96	FENCEGRD	736.85	
256	935879.81	3845843.79	FENCEGRD	737.50	
257	935865.11	3845801.61	FENCEGRD	737.92	
258	935850.40	3845759.44	FENCEGRD	738.56	
259	935835.70	3845717.27	FENCEGRD	739.06	
260	935820.99	3845675.09	FENCEGRD	739.78	
261	936630.25	3846556.70	FENCEGRD	732.40	
262	936677.67	3846559.39	FENCEGRD	732.65	
263	936725.08	3846562.08	FENCEGRD	732.88	
264	936772.49	3846564.77	FENCEGRD	733.13	
265	936819.91	3846567.47	FENCEGRD	733.38	
266	936867.32	3846570.16	FENCEGRD	733.73	
267	936914.73	3846572.85	FENCEGRD	734.01	
268	936962.15	3846575.54	FENCEGRD	734.25	
269	937009.56	3846578.23	FENCEGRD	734.41	
270	937084.11	3845706.19	FENCEGRD	738.88	
271	937087.14	3845657.40	FENCEGRD	739.28	
272	937090.17	3845608.60	FENCEGRD	739.78	
273	937093.20	3845559.81	FENCEGRD	740.28	
274	937096.23	3845511.02	FENCEGRD	740.72	
275	937099.26	3845462.23	FENCEGRD	741.49	
276	937102.29	3845413.43	FENCEGRD	741.99	
277	937105.32	3845364.64	FENCEGRD	742.57	
278	937108.35	3845315.85	FENCEGRD	743.28	
279	937121.48	3845735.01	FENCEGRD	738.95	
280	937081.93	3845770.12	FENCEGRD	738.46	
281	937134.01	3845709.29	FENCEGRD	739.29	
282	937137.04	3845660.49	FENCEGRD	739.51	
283	937140.07	3845611.70	FENCEGRD	740.00	
284	937143.10	3845562.91	FENCEGRD	740.50	
285	937146.13	3845514.12	FENCEGRD	740.98	
286	937149.16	3845465.32	FENCEGRD	741.69	
287	937152.19	3845416.53	FENCEGRD	742.08	
288	937155.22	3845367.74	FENCEGRD	742.78	
289	937158.25	3845318.95	FENCEGRD	743.28	
290	937214.33	3845755.49	FENCEGRD	739.41	
291	937194.84	3845795.50	FENCEGRD	739.13	
292	937133.31	3845850.12	FENCEGRD	738.55	
293	937091.27	3845864.74	FENCEGRD	738.17	

Receptor Pathway

ISCST3

294	937233.82	3845715.48	FENCEGRD	740.00	
295	937236.85	3845666.69	FENCEGRD	740.37	
296	937239.88	3845617.90	FENCEGRD	740.69	
297	937242.91	3845569.11	FENCEGRD	741.18	
298	937245.94	3845520.31	FENCEGRD	741.68	
299	937248.97	3845471.52	FENCEGRD	742.18	
300	937252.00	3845422.73	FENCEGRD	742.67	
301	937255.03	3845373.94	FENCEGRD	743.17	
302	937258.06	3845325.14	FENCEGRD	743.67	
303	937412.55	3845770.74	FENCEGRD	741.28	
304	937391.67	3845813.61	FENCEGRD	740.97	
305	937370.78	3845856.47	FENCEGRD	740.97	
306	937349.90	3845899.34	FENCEGRD	740.66	
307	937329.01	3845942.20	FENCEGRD	740.42	
308	937263.09	3846000.73	FENCEGRD	739.48	
309	937218.05	3846016.39	FENCEGRD	739.44	
310	937173.01	3846032.05	FENCEGRD	739.05	
311	937127.98	3846047.71	FENCEGRD	738.35	
312	937082.94	3846063.38	FENCEGRD	737.61	
313	937433.44	3845727.88	FENCEGRD	741.72	
314	937436.47	3845679.09	FENCEGRD	741.93	
315	937439.50	3845630.29	FENCEGRD	742.41	
316	937442.53	3845581.50	FENCEGRD	742.60	
317	937445.56	3845532.71	FENCEGRD	743.08	
318	937448.59	3845483.92	FENCEGRD	743.31	
319	937451.62	3845435.12	FENCEGRD	743.78	
320	937454.65	3845386.33	FENCEGRD	744.02	
321	937457.68	3845337.54	FENCEGRD	744.78	
322	937911.59	3845801.73	FENCEGRD	741.00	
323	937890.71	3845844.60	FENCEGRD	740.58	
324	937869.82	3845887.46	FENCEGRD	740.01	
325	937848.93	3845930.33	FENCEGRD	739.04	
326	937828.05	3845973.19	FENCEGRD	738.99	
327	937807.16	3846016.06	FENCEGRD	738.75	
328	937786.28	3846058.92	FENCEGRD	738.30	
329	937765.39	3846101.79	FENCEGRD	737.86	
330	937744.51	3846144.65	FENCEGRD	737.60	
331	937723.62	3846187.52	FENCEGRD	737.44	
332	937702.74	3846230.38	FENCEGRD	737.18	

Receptor Pathway

ISCST3

333	937681.85	3846273.25	FENCEGRD	736.61	
334	937660.96	3846316.11	FENCEGRD	736.30	
335	937595.04	3846374.64	FENCEGRD	736.30	
336	937550.01	3846390.30	FENCEGRD	736.11	
337	937504.97	3846405.96	FENCEGRD	735.60	
338	937459.93	3846421.62	FENCEGRD	734.64	
339	937414.89	3846437.28	FENCEGRD	734.65	
340	937369.86	3846452.94	FENCEGRD	734.68	
341	937324.82	3846468.60	FENCEGRD	734.79	
342	937279.78	3846484.27	FENCEGRD	734.61	
343	937234.75	3846499.93	FENCEGRD	734.54	
344	937189.71	3846515.59	FENCEGRD	734.43	
345	937144.67	3846531.25	FENCEGRD	734.38	
346	937099.64	3846546.91	FENCEGRD	734.53	
347	937054.60	3846562.57	FENCEGRD	734.59	
348	937932.48	3845758.87	FENCEGRD	741.73	
349	937935.51	3845710.08	FENCEGRD	742.23	
350	937938.54	3845661.28	FENCEGRD	742.96	
351	937941.57	3845612.49	FENCEGRD	743.67	
352	937944.60	3845563.70	FENCEGRD	744.16	
353	937947.62	3845514.90	FENCEGRD	744.52	
354	937950.65	3845466.11	FENCEGRD	745.01	
355	937953.68	3845417.32	FENCEGRD	745.51	
356	937956.71	3845368.53	FENCEGRD	746.00	

Discrete Polar Receptors

Option not in use

Plant Boundary Receptors

Cartesian Plant Boundary

Primary

Record Number	Location: X-Coordinate [m]	Location: Y-Coordinate [m]	Group Name (Optional)	Terrain Elevations (Optional)	Flagpole Heights [m] (Optional)
1	937059.16	3845704.64	FENCEPRI	738.84	
2	937083.40	3845314.30	FENCEPRI	743.28	
3	936702.13	3845295.37	FENCEPRI	743.85	
4	936679.85	3845683.10	FENCEPRI	738.70	

Receptor Pathway

ISCST3

Intermediate

Option not in use

Polar Plant Boundary

Option not in use

Receptor Groups

Record Number	Group ID	Group Description
1	FENCEPRI	Cartesian plant boundary Primary Receptors
2	NPOL1	Receptors generated from Non-Uniform Polar Grid
3	FENCEGRD	Receptors generated from Fenceline Grid

Meteorology Pathway

ISCST3

Met Input Data

Meteorological Input Data File and Format			
Filename:	C:\Data\Met\DryDep\Deposition MET\lahabra.dep		
Format Type:	Default ASCII Format		
Anemometer Height		Optional Wind Direction	
Height = 10.00 [m]		Rotation [deg]:	
Surface Meteorological Station		Upper Air Meteorological Station	
		Location [m] (Optional):	
Station No.:	53099	X Coord.:	
Year:	1981	Y Coord.:	
Station Name:			
		Location [m] (Optional):	
Station No.:	91919	X Coord.:	
Year:	1981	Y Coord.:	
Station Name:			

Data Period

Read All Met. File?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Wind Speed Categories

Stability Category	Wind Speed [m/s]	Stability Category	Wind Speed [m/s]
A	1.54	D	8.23
B	3.09	E	10.8
C	5.14	F	No Upper Bound

Source Pathway - Source Inputs

ISCST3

Point Sources

No Point Sources Specified

Volume Sources

No Volume Sources Specified

Area Sources

No Area Sources Specified

Open Pit Sources

No Open Pit Sources Specified

Circular Area Sources

No Circular Area Sources Specified

Polygon Area Sources

Source Type	Source ID	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/ (s-m ²)]	Initial Vertical Dim. [m]	Number of Vertices (or sides)	X Coordinate for Vertices [m]	Y Coordinate for Vertices [m]
AREA POLY	AREA1	738.84	1.00	6.74E-6	1.00	4	937059.16	3845704.64
				6.74E-6			937083.40	3845314.30
				6.74E-6			936702.13	3845295.37
				6.74E-6			936679.85	3845683.10
		Area 1						

Flare Sources

No Flare Sources Specified































Line Sources

No Line Sources Specified

Output Pathway

ISCST3

Tabular Printed Outputs

Short Term Averaging Period	RECTABLE Highest Values Table										MAXTABLE Maximum Values Table	DAYTABLE Daily Values Table
	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th		
ALL												No
1												No
24												No

Output Pathway

ISCST3

Contour Plot Files (PLOTFILE)

Path for PLOTFILES: LRPM2.IS

Averaging Period	Source Group ID	High Value	File Name
1	ALL	1st	01H1GALL.PLT
24	ALL	1st	24H1GALL.PLT

Building Downwash Information

Option not in use

Emission Rate Units for Output

For Concentration

Unit Factor:	1E6
Emission Unit Label:	GRAMS/SEC
Concentration Unit Label:	MICROGRAMS/M**3

Data for Particulates

Option not in use

Variable Emission Rate

Seasonally Emission Rate Variation

Option not in use

Monthly Emission Rate Variation

Option not in use

Hourly Emission Rate Variation

Option not in use

Wind Speed / Stability Category Emission Rate Variation

Option not in use

Season / Hour-of-Day Emission Rate Variation

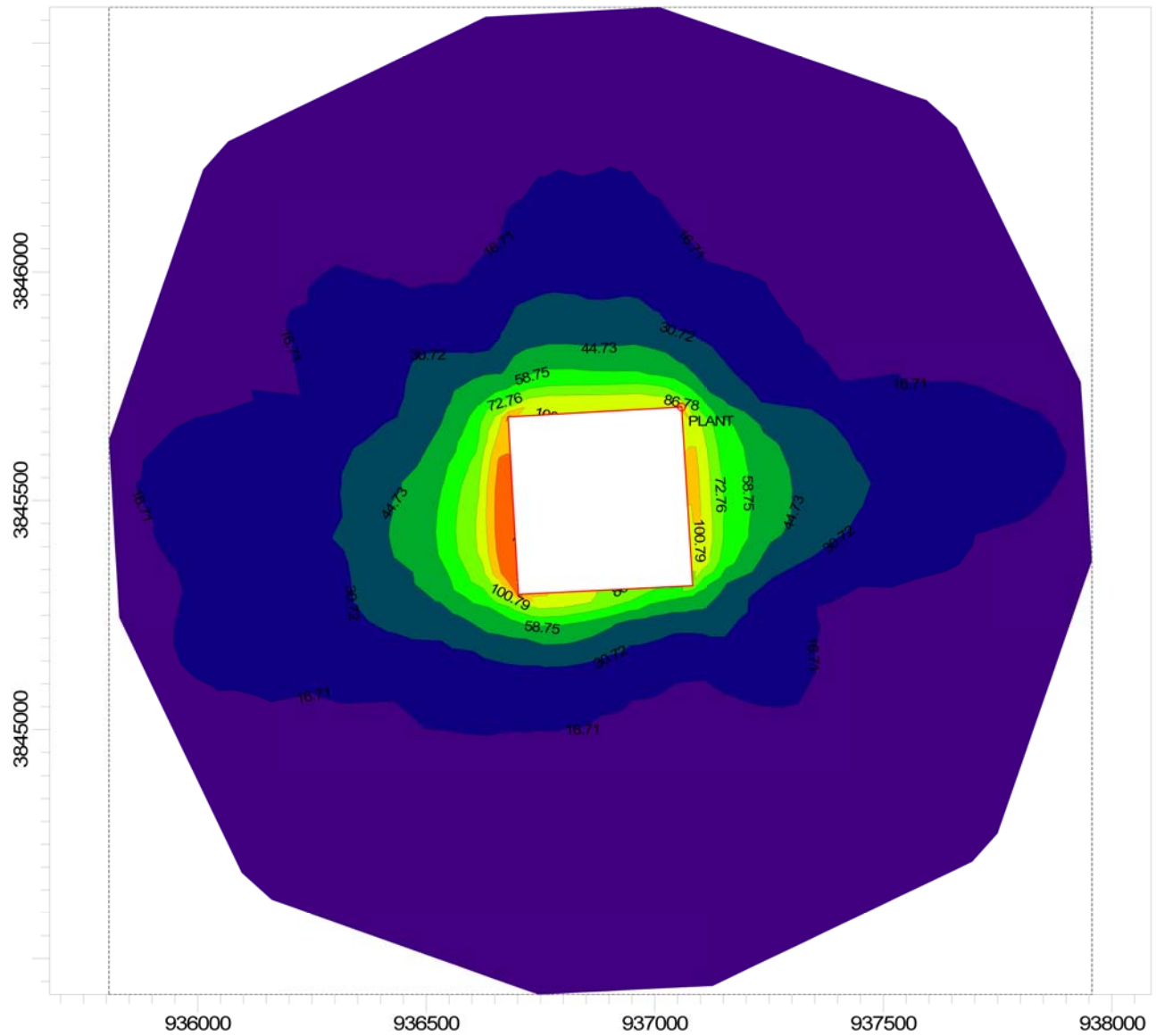
Option not in use

Season / Hour-of-Day / Day-of-Week Emission Rate Variation

Option not in use

PROJECT TITLE:

**Lane Ranch
PM2.5 24 Hour Fugitive Emissions**



PLOT FILE OF HIGH 1ST HIGH 24-HR VALUES FOR SOURCE GROUP: ALL

ug/m³



COMMENTS:

Unit Emission Factor (1 g/s)

SOURCES:

1

COMPANY NAME:

RECEPTORS:

360

MODELER:

OUTPUT TYPE:

Concentration

SCALE:

1:14,704

0

0.5 km

MAX:

128.8213 ug/m³

DATE:

11/14/2008

PROJECT NO.:

Unit Emission Factors

Avg Time	x/Q	Pollutants	Source
	ug/m3/(g/s)		
1-HR	116.36	NOx and CO	Combustion
8-HR	97.89	CO	Combustion
24-HR	155.55	PM10	Fugitive
24-HR	55.6	PM10	Combustion
24-HR	128.82	PM2.5	Fugitive
24-HR	55.95	PM2.5	Combustion

Construction Emission Rates						
Phase			PM10		PM2.5	
	Nox	CO	Fugitive	Combustion	Fugitive	Combustion
	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day
Grading	171.89	55.24	1.50	7.76	0.32	7.17
Site Prep	82.17	41.92	3.22	5.96	0.68	5.48
Building	83.55	44.99	0.00	7.65	0.00	7.04
Asphalt	72.89	32.75	0.00	4.58	0.00	4.22

Operational Emission Rates						
Phase	Nox	CO	PM10		PM2.5	
	lbs/day	lbs/day	Fugitive	Combustion	Fugitive	Combustion
			lbs/day	lbs/day	lbs/day	lbs/day
Operations	22.39	199.23	0.03	2.28	0.03	0.63

Construction Air Concentration														
Construction Phase	Nitrogen Dioxide			Carbon Monoxide					Particulate Matter 10			Particulate Matter 2.5		
	ER	1-Hr Site	1-Hr Total	ER	1-Hr Site	1-Hr Total	8-Hr Site	8-Hr Total	ER-Fug	ER-Comb	24-hr	ER-Fug	ER-Comb	24-HR
	g/s	ug/m3	ppm	g/s	ug/m3	ppm	ug/m3	ppm	g/s	g/s	ug/m3	g/s	g/s	ug/m3
Grading	2.71	316	0.168	0.87	101	0.088	24	0.021	0.008	0.041	3.50	0.002	0.038	2.32

Operational Air Concentration														
Phase	Nitrogen Dioxide			Carbon Monoxide					Particulate Matter 10			Particulate Matter 2.5		
	ER	1-Hr Site	1-Hr Total	ER	1-Hr Site	1-Hr Total	8-Hr Site	8-Hr Total	ER-Fug	ER-Comb	24-hr	ER-Fug	ER-Comb	24-HR
	g/s	ug/m3	ppm	g/s	ug/m3	ppm	ug/m3	ppm	g/s	g/s	ug/m3	g/s	g/s	ug/m3
Operations	0.12	14	0.0073	1.05	122	0.106	29	0.025	0.0002	0.0120	0.69	0.0002	0.0033	0.21

EMISSIONS OF GREENHOUSE GAS EMISSIONS FROM NATURAL GAS CONSUMPTION

Project Name: Lane Ranch
Analysis Year: 2008
Analysis Scenario:

NATURAL GAS DEMAND

Land Use	Units	Consumption Rate (cubic feet/ unit/month)	Natural Gas Demand (cubic feet/ month)
Single Residential Units:	5	6,665.0	33,325.0
Multi-Family Residential Units:		4,011.5	-
Industrial (parcels):		241,611.0	-
Hotel/Motel (square feet):		4.8	-
Retail/Shopping (square feet):		2.9	-
Office (square feet):		2.0	-
Total Natural Gas Demand:			33,325.0
Heating Value of Natural Gas (Btu/cubic foot):		1,020.0	
Monthly BTU:		33,991,500.0	
Monthly Million Btu (MMBtu):		34.0	

GREENHOUSE GAS EMISSIONS

Emissions	Emission Factors (kg/MMBtu)	Emissions (metric tons/year)	CO ₂ Equivalency Factors	CO ₂ Equivalent Emissions (tons per year)
Carbon Dioxide	52.78	21.53	1	21.53
Methane	0.006	0.002	23	0.06
Nitrous Oxide	0.000	0.000	296	0.01
Total Emissions:		21.53		21.60

Source of natural gas consumption rates: South Coast Air Quality Management District *CEQA Air Quality Handbook*, April 1993.

Source of greenhouse gas emission factors: *California Climate Action Registry General Reporting Protocol*, March 2007.

EMISSIONS OF GREENHOUSE GAS EMISSIONS FROM ELECTRICITY GENERATION

Project Name: Lane Ranch
Analysis Year: 2008
Analysis Scenario: 0

ELECTRICITY DEMAND

Land Use	Units	Useage Rate (KWh/unit/year)	Electricity Demand (KWh/year)
Residential Units	5	5626.5	28,132.5
Food Store (square feet):		53.3	-
Restaurant (square feet):		47.45	-
Hospital (square feet):		21.7	-
Retail (square feet):		13.55	-
College/University (square feet):		11.55	-
High School (square feet):		10.5	-
Elementary School (square feet):		5.9	-
Office (square feet):		12.95	-
Hotel/Motel (square feet):		9.95	-
Warehouse (square feet):		4.35	-
Miscellaneous (square feet):		10.5	-
Total Electricity Demand:			28,132.5

Total Megawatt Hours (MWh) per Year: 28.1

GREENHOUSE GAS EMISSIONS

Emissions	Emission Factors (lbs/MWh)	Emissions (metric tons)	CO ₂ Equivalency Factors	CO ₂ Equivalent Emissions (tons per year)
Carbon Dioxide	804.54	10.27	1	10.27
Methane	0.007	0.000	23	0.00
Nitrous Oxide	0.004	0.000	296	0.01
Total Emissions:		10.27		10.28

Source of natural gas consumption rates: South Coast Air Quality Management District *CEQA Air Quality Handbook*, April 1993.

Source of greenhouse gas emission factors: *California Climate Action Registry General Reporting Protocol*, March 2007.

EMISSIONS OF GREENHOUSE GAS EMISSIONS FROM MOTOR VEHICLES

Project Name: Lane Ranch
Analysis Year: 2008
Analysis Scenario: 0

Vehicle Miles Per Day: 100.00
 Days of Operation Per Year: 365

Vehicle Fleet Mix

Vehicle Type	Percent Type				Assumed mpg
	Non-Catalyst	Catalyst	Diesel		
Light Auto	61.89%	1.30%	98.40%	0.30%	27.5
Light Truck <3,750 lbs	17.02%	2.60%	95.40%	2.00%	21.4
Light Truck 3,751-5,750	18.15%	1.20%	98.10%	0.70%	21.4
Medium Truck 5,751-8,500	0.24%	1.40%	95.90%	2.70%	17.6
Light Heavy 8,501-10,000	0.04%	0.00%	81.80%	18.20%	14.3
Light Heavy 10,001-14,000	0.01%	0.00%	66.70%	33.30%	10.5
Med-Heavy 14,001-33,000	0.03%	0.00%	20.00%	80.00%	8.0
Heavy-Heavy 33,001-60,000	0.03%	0.00%	11.10%	88.90%	5.7
Line Haul >60,000 lbs	0.00%	0.00%	0.00%	100.00%	5.7
Urban Bus	0.23%	0.00%	50.00%	50.00%	5.7
Motorcycle	1.80%	75.00%	25.00%	0.00%	27.5
School Bus	0.11%	0.00%	0.00%	100.00%	14.3
Motor Home	0.45%	7.10%	85.70%	7.20%	8.0

Mobile Source Emission Factors

Vehicle Type	Carbon Dioxide (kg/gallon)		Methane (g/mile)		Nitrous Oxide (g/mile)	
	Gasoline	Diesel	Gasoline	Diesel	Gasoline	Diesel
Light Auto	8.55	9.96	0.04	0.01	0.04	0.02
Light Truck <3,750 lbs	8.55	9.96	0.05	0.01	0.06	0.03
Light Truck 3,751-5,750	8.55	9.96	0.05	0.01	0.06	0.03
Medium Truck 5,751-8,500	8.55	9.96	0.12	0.06	0.20	0.05
Light Heavy 8,501-10,000	8.55	9.96	0.12	0.06	0.20	0.05
Light Heavy 10,001-14,000	8.55	9.96	0.12	0.06	0.20	0.05
Med-Heavy 14,001-33,000	8.55	9.96	0.12	0.06	0.20	0.05
Heavy-Heavy 33,001-60,000	8.55	9.96	0.12	0.06	0.20	0.05
Line Haul >60,000 lbs	8.55	9.96	0.12	0.06	0.20	0.05
Urban Bus	8.55	9.96	0.12	0.06	0.20	0.05
Motorcycle	8.55	9.96	0.09	0.00	0.01	0.00
School Bus	8.55	9.96	0.12	0.06	0.20	0.05
Motor Home	8.55	9.96	0.12	0.06	0.20	0.05

Greenhouse Gas Emissions (metric tons per year)

Vehicle Type	Carbon Dioxide		Methane		Nitrous Oxide	
	Gasoline	Diesel	Gasoline	Diesel	Gasoline	Diesel
Light Auto	7.00	0.02	0.00	0.00	0.00	0.00
Light Truck <3,750 lbs	2.43	0.06	0.00	0.00	0.00	0.00
Light Truck 3,751-5,750	2.63	0.02	0.00	0.00	0.00	0.00
Medium Truck 5,751-8,500	0.04	0.00	0.00	0.00	0.00	0.00
Light Heavy 8,501-10,000	0.01	0.00	0.00	0.00	0.00	0.00
Light Heavy 10,001-14,000	0.00	0.00	0.00	0.00	0.00	0.00
Med-Heavy 14,001-33,000	0.00	0.01	0.00	0.00	0.00	0.00
Heavy-Heavy 33,001-60,000	0.00	0.02	0.00	0.00	0.00	0.00
Line Haul >60,000 lbs	-	-	-	-	-	-
Urban Bus	0.06	0.07	0.00	0.00	0.00	0.00
Motorcycle	0.20	-	0.00	-	0.00	-
School Bus	-	0.03	-	0.00	-	0.00
Motor Home	0.16	0.01	0.00	0.00	0.00	0.00
Total Emissions by Fuel Type:	12.55	0.25	0.00	0.00	0.00	0.00
Total Emissions by Pollutant:	12.80		0.00		0.00	
CO₂ Equivalency Factors	1.00		23.00		296.00	
CO₂ Equivalent Emissions:	12.80		0.00		0.02	
Total Emissions (CO₂e):	12.82					

Source of vehicle miles per day and vehicle fleet mix: URBEMIS 2002 For Windows 8.7.0 model results for this analysis.

Sources of assumed mpg: National Highway Traffic Safety Administration Summary of Fuel Economy Performance (for passenger vehicles and light trucks) (web site accessed July 11, 2007); U.S. Department of Energy Truck Fuel Economy by Size Class (web site accessed July 11, 2007).

Source of greenhouse gas emission factors: California Climate Action Registry General Reporting Protocol, March 2007.

Livestock Methane Generation

Livestock	Quantity	Emission Factor kg/livestock	Emissions kg/yr	CO ₂	
				Equivalency Factors	Equivalent Emissions (tons per year)
Horse	10	18	180	23	4.14
Cows	5	153	765	23	17.595
Total Emissions:					21.735

Notes:

Source of emission factors: Inventory of California Greenhouse Gas Emissions and Sinks: 1990-1999, California Energy Commission, November 2002.
 Conservatively assumed that cows were dairy cows