



**Air Emissions Screening Analysis** 

Appendices	
	Nipomo Community Park Master Plan

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#### Urbemis 2007 Version 9.2.4

# Combined Annual Emissions Reports (Tons/Year)

File Name: P:\15000\15542 Nipomo Community Park Master Plan Program EIR\Reports\A Working EIR\Air Quality\Nipomo AQ Screening\NCP

Emissions Screening.urb924

Project Name: Nipomo Community Park Construction Emissions Screening

Project Location: San Luis Obispo County APCD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

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Summary Report:

CONSTRUCTION EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	CO	<u>SO2</u>	PM10 Dust PI	M10 Exhaust	<u>PM10</u>	PM2.5 Dust	PM2.5 Exhaust	<u>PM2.5</u>	<u>CO2</u>
2007 TOTALS (tons/year unmitigated)	0.06	0.46	0.26	0.00	1.32	0.03	1.35	0.28	0.02	0.30	36.40
2008 TOTALS (tons/year unmitigated)	0.38	1.75	1.37	0.00	0.54	0.12	0.66	0.11	0.11	0.23	169.07
AREA SOURCE EMISSION ESTIMATES											
		ROG	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	PM10	PM2.5	<u>CO2</u>			
TOTALS (tons/year, unmitigated)		0.02	0.00	0.25	0.00	0.00	0.00	0.46			
OPERATIONAL (VEHICLE) EMISSION ESTIM	ATES										
		ROG	<u>NOx</u>	CO	<u>SO2</u>	<u>PM10</u>	PM2.5	<u>CO2</u>			
TOTALS (tons/year, unmitigated)		3.03	4.29	34.66	0.03	5.19	0.99	2,672.09			
SUM OF AREA SOURCE AND OPERATIONAL	L EMISSION E	STIMATES									
		ROG	<u>NOx</u>	CO	<u>SO2</u>	PM10	PM2.5	<u>CO2</u>			
TOTALS (tons/year, unmitigated)		3.05	4.29	34.91	0.03	5.19	0.99	2,672.55			

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## Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Annual Tons Per Year, Unmitigated

<u>Source</u>	ROG	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	PM2.5	<u>CO2</u>
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscape	0.02	0.00	0.25	0.00	0.00	0.00	0.46
Consumer Products	0.00						
Architectural Coatings	0.00						
TOTALS (tons/year, unmitigated)	0.02	0.00	0.25	0.00	0.00	0.00	0.46

# Area Source Changes to Defaults

# Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Annual Tons Per Year, Unmitigated

<u>Source</u>	ROG	NOX	CO	SO2	PM10	PM25	CO2
City park	3.03	4.29	34.66	0.03	5.19	0.99	2,672.09
TOTALS (tons/year, unmitigated)	3.03	4.29	34.66	0.03	5.19	0.99	2,672.09

Operational Settings:

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2013 Season: Annual

Emfac: Version: Emfac2007 V2.3 Nov 1 2006

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Urban Trip Length (miles)

11/0/2011 1:01:001 1							
	Su	mmary of Land Us	ses_				
Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT	
City park		3,058.00	acres	1.00	3,058.00	16,513.20	
					3,058.00	16,513.20	
		Vehicle Fleet M	<u>lix</u>				
Vehicle Type	Perce	nt Type	Non-Cataly	est	Catalyst	Diesel	
Light Auto		41.6	0	.7	99.1	0.2	
Light Truck < 3750 lbs		18.8	1	.6	92.0	6.4	
Light Truck 3751-5750 lbs		19.9	0	.5	99.0	0.5	
Med Truck 5751-8500 lbs		8.0	0	.0	100.0	0.0	
Lite-Heavy Truck 8501-10,000 lbs		2.1	0	.0	71.4	28.6	
Lite-Heavy Truck 10,001-14,000 lbs		1.2	0	.0	50.0	50.0	
Med-Heavy Truck 14,001-33,000 lbs		1.0	0	.0	20.0	80.0	
Heavy-Heavy Truck 33,001-60,000 lbs		0.3	0	.0	0.0	100.0	
Other Bus		0.1	0	.0	0.0	100.0	
Urban Bus		0.0	0	.0	0.0	0.0	
Motorcycle		5.2	53	.8	46.2	0.0	
School Bus		0.1	0	.0	0.0	100.0	
Motor Home		1.7	0	.0	88.2	11.8	
		Travel Condition	<u>ons</u>				
	Res	idential			Commercial		
	Home-Work F	lome-Shop	Home-Other	Commu	te Non-Work	Customer	

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## Travel Conditions

		Residential		Commercial			
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer	
Rural Trip Length (miles)	13.0	5.0	5.0	13.0	5.0	5.0	
Trip speeds (mph)	35.0	35.0	35.0	35.0	35.0	35.0	
% of Trips - Residential	32.9	18.0	49.1				
% of Trips - Commercial (by land use)							
City park				5.0	2.5	92.5	

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#### Urbemis 2007 Version 9.2.4

# Combined Summer Emissions Reports (Pounds/Day)

File Name: P:\15000\15542 Nipomo Community Park Master Plan Program EIR\Reports\A Working EIR\Air Quality\Nipomo AQ Screening\NCP

Emissions Screening.urb924

Project Name: Nipomo Community Park Construction Emissions Screening

Project Location: San Luis Obispo County APCD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

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Summary Report:

CONSTRUCTION EMISSION ESTIMATES

	ROG	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	PM10 Dust PM	//10 Exhaust	<u>PM10</u>	PM2.5 Dust	PM2.5 Exhaust	PM2.5	<u>CO2</u>
2007 TOTALS (lbs/day unmitigated)	9.74	61.80	35.74	0.01	120.04	3.76	123.79	25.07	3.46	28.53	4,942.74
2008 TOTALS (lbs/day unmitigated)	13.48	76.96	49.52	0.01	120.05	4.92	124.96	25.08	4.52	29.60	6,766.52
AREA SOURCE EMISSION ESTIMATES											
		ROG	<u>NOx</u>	CO	<u>SO2</u>	PM10	PM2.5	<u>CO2</u>			
TOTALS (lbs/day, unmitigated)		0.12	0.02	1.55	0.00	0.01	0.01	2.81			
OPERATIONAL (VEHICLE) EMISSION ESTII	MATES										
		ROG	<u>NOx</u>	CO	<u>SO2</u>	<u>PM10</u>	PM2.5	<u>CO2</u>			
TOTALS (lbs/day, unmitigated)		15.46	21.47	180.22	0.14	28.42	5.45	14,903.09			
SUM OF AREA SOURCE AND OPERATION	AL EMISSION E	STIMATES									
		ROG	<u>NOx</u>	CO	<u>SO2</u>	<u>PM10</u>	PM2.5	<u>CO2</u>			
TOTALS (lbs/day, unmitigated)		15.58	21.49	181.77	0.14	28.43	5.46	14,905.90			

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## Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

<u>Source</u>	ROG	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth - No Summer Emissions							
Landscape	0.12	0.02	1.55	0.00	0.01	0.01	2.81
Consumer Products	0.00						
Architectural Coatings	0.00						
TOTALS (lbs/day, unmitigated)	0.12	0.02	1.55	0.00	0.01	0.01	2.81

## Area Source Changes to Defaults

## Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

<u>Source</u>	ROG	NOX	CO	SO2	PM10	PM25	CO2
City park	15.46	21.47	180.22	0.14	28.42	5.45	14,903.09
TOTALS (lbs/day, unmitigated)	15.46	21.47	180.22	0.14	28.42	5.45	14,903.09

Operational Settings:

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2013 Temperature (F): 75 Season: Summer

Emfac: Version: Emfac2007 V2.3 Nov 1 2006

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Urban Trip Length (miles)

11/0/2011 1.30.30 PW						
	Sum	mary of Land Us	ses_			
Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
City park		3,058.00	acres	1.00	3,058.00	16,513.20
					3,058.00	16,513.20
		Vehicle Fleet M	<u>Mix</u>			
Vehicle Type	Percen	t Type	Non-Cataly	rst	Catalyst	Diesel
Light Auto		41.6	0	.7	99.1	0.2
Light Truck < 3750 lbs		18.8	1	.6	92.0	6.4
Light Truck 3751-5750 lbs		19.9	0	.5	99.0	0.5
Med Truck 5751-8500 lbs		8.0	0	.0	100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs		2.1	0	.0	71.4	28.6
Lite-Heavy Truck 10,001-14,000 lbs		1.2	0	.0	50.0	50.0
Med-Heavy Truck 14,001-33,000 lbs		1.0	0	.0	20.0	80.0
Heavy-Heavy Truck 33,001-60,000 lbs		0.3	0	.0	0.0	100.0
Other Bus		0.1	0	.0	0.0	100.0
Urban Bus		0.0	0	.0	0.0	0.0
Motorcycle		5.2	53	.8	46.2	0.0
School Bus		0.1	0	.0	0.0	100.0
Motor Home		1.7	0	.0	88.2	11.8
		Travel Condition	<u>ons</u>			
	Resid	lential			Commercial	
	Home-Work Ho	ome-Shop	Home-Other	Commu	ite Non-Wo	rk Customer

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## Travel Conditions

		Residential		Commercial			
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer	
Rural Trip Length (miles)	13.0	5.0	5.0	13.0	5.0	5.0	
Trip speeds (mph)	35.0	35.0	35.0	35.0	35.0	35.0	
% of Trips - Residential	32.9	18.0	49.1				
% of Trips - Commercial (by land use)							
City park				5.0	2.5	92.5	

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#### Urbemis 2007 Version 9.2.4

# Combined Winter Emissions Reports (Pounds/Day)

File Name: P:\15000\15542 Nipomo Community Park Master Plan Program EIR\Reports\A Working EIR\Air Quality\Nipomo AQ Screening\NCP

Emissions Screening.urb924

Project Name: Nipomo Community Park Construction Emissions Screening

Project Location: San Luis Obispo County APCD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

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Summary Report:

CONSTRUCTION EMISSION ESTIMATES

	ROG	<u>NOx</u>	CO	<u>SO2</u>	PM10 Dust PM	//10 Exhaust	<u>PM10</u>	PM2.5 Dust	PM2.5 Exhaust	<u>PM2.5</u>	<u>CO2</u>
2007 TOTALS (lbs/day unmitigated)	9.74	61.80	35.74	0.01	120.04	3.76	123.79	25.07	3.46	28.53	4,942.74
2008 TOTALS (lbs/day unmitigated)	13.48	76.96	49.52	0.01	120.05	4.92	124.96	25.08	4.52	29.60	6,766.52
AREA SOURCE EMISSION ESTIMATES											
		ROG	<u>NOx</u>	CO	<u>SO2</u>	<u>PM10</u>	PM2.5	<u>CO2</u>			
TOTALS (lbs/day, unmitigated)		0.00	0.00	0.00	0.00	0.00	0.00	0.00			
OPERATIONAL (VEHICLE) EMISSION ESTIMATES											
		ROG	<u>NOx</u>	CO	<u>SO2</u>	<u>PM10</u>	PM2.5	<u>CO2</u>			
TOTALS (lbs/day, unmitigated)		18.94	27.61	209.30	0.14	28.42	5.45	14,118.66			
SUM OF AREA SOURCE AND OPERATIONA	L EMISSION E	STIMATES									
		ROG	<u>NOx</u>	CO	<u>SO2</u>	<u>PM10</u>	PM2.5	<u>CO2</u>			
TOTALS (lbs/day, unmitigated)		18.94	27.61	209.30	0.14	28.42	5.45	14,118.66			

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## Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

<u>Source</u>	ROG	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	PM2.5	<u>CO2</u>
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping - No Winter Emissions							
Consumer Products	0.00						
Architectural Coatings	0.00						
TOTALS (lbs/day, unmitigated)	0.00	0.00	0.00	0.00	0.00	0.00	0.00

## Area Source Changes to Defaults

## Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

<u>Source</u>	ROG	NOX	CO	SO2	PM10	PM25	CO2
City park	18.94	27.61	209.30	0.14	28.42	5.45	14,118.66
TOTALS (lbs/day, unmitigated)	18.94	27.61	209.30	0.14	28.42	5.45	14,118.66

Operational Settings:

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2013 Temperature (F): 50 Season: Winter

Emfac: Version: Emfac2007 V2.3 Nov 1 2006

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Urban Trip Length (miles)

11/0/2011 1.30.43 FW											
	<u>Su</u>	mmary of Land Us	<u>ses</u>								
Land Use Type	Acreage	e Trip Rate	Unit Type	No. Units	Total Trips	Total VMT					
City park		3,058.00	acres	1.00	3,058.00	16,513.20					
					3,058.00	16,513.20					
Vehicle Fleet Mix											
Vehicle Type	Perce	ent Type	Non-Cataly	st	Catalyst	Diesel					
Light Auto		41.6	0	.7	99.1	0.2					
Light Truck < 3750 lbs		18.8	1	.6	92.0	6.4					
Light Truck 3751-5750 lbs		19.9	0	.5	99.0	0.5					
Med Truck 5751-8500 lbs		8.0		.0	100.0	0.0					
Lite-Heavy Truck 8501-10,000 lbs		2.1	0	.0	71.4	28.6					
Lite-Heavy Truck 10,001-14,000 lbs		1.2	0	.0	50.0	50.0					
Med-Heavy Truck 14,001-33,000 lbs		1.0	0	.0	20.0	80.0					
Heavy-Heavy Truck 33,001-60,000 lbs		0.3	0	.0	0.0	100.0					
Other Bus		0.1	0	.0	0.0	100.0					
Urban Bus		0.0	0	.0	0.0	0.0					
Motorcycle		5.2	53	.8	46.2	0.0					
School Bus		0.1	0	.0	0.0	100.0					
Motor Home		1.7	0	.0	88.2	11.8					
		Travel Condition	<u>ons</u>								
	Res	sidential			Commercial						
	Home-Work I	Home-Shop	Home-Other	Commut	e Non-Work	Customer					

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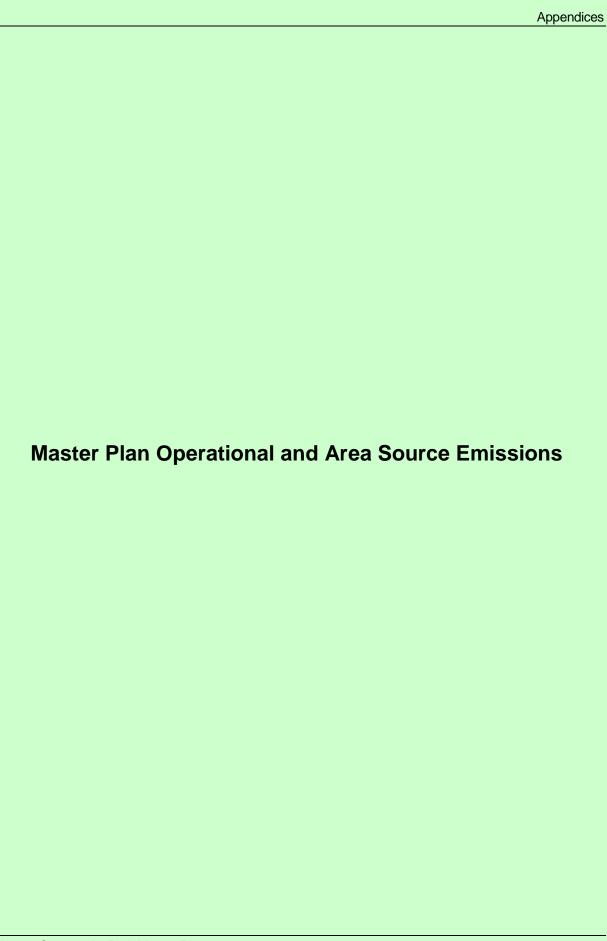
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## Travel Conditions

		Residential		Commercial			
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer	
Rural Trip Length (miles)	13.0	5.0	5.0	13.0	5.0	5.0	
Trip speeds (mph)	35.0	35.0	35.0	35.0	35.0	35.0	
% of Trips - Residential	32.9	18.0	49.1				
% of Trips - Commercial (by land use)							
City park				5.0	2.5	92.5	



appendices	
	Nipomo Community Park Master Plar

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#### Urbemis 2007 Version 9.2.4

# Combined Annual Emissions Reports (Tons/Year)

File Name: P:\15000\15542 Nipomo Community Park Master Plan Program EIR\Reports\A Working EIR\Air Quality\06-14-11 Nipomo Park Urbemis

Operational & Area Calcs\6-15-11 NCP.urb924

Project Name: Nipomo Park EIR Updated AQ Calculations

Project Location: San Luis Obispo County APCD

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

	ROG	<u>NOx</u>	<u>co</u>	<u>SO2</u>	<u>PM10</u>	PM2.5	<u>CO2</u>		
TOTALS (tons/year, unmitigated)	0.53								
TOTALS (tons/year, mitigated)	0.53								
Percent Reduction	0.00	NaN	NaN	NaN	NaN	NaN	NaN		
OPERATIONAL (VEHICLE) EMISSION ESTIMATES									
	ROG	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	PM2.5	<u>CO2</u>		
TOTALS (tons/year, unmitigated)	2.78	3.39	28.09	0.00	3.48	0.66	1,816.95		
SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES									
	ROG	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	PM2.5	<u>CO2</u>		
TOTALS (tons/year, unmitigated)	3.31	3.39	28.09	0.00	3.48	0.66	1,816.95		

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

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Area Source Unmitigated Detail Report:									
AREA SOURCE EMISSION ESTIMATES Annual Tons Per Year, Unmitigated									
<u>Source</u>	ROG	<u>NOx</u>	CO	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>		
Natural Gas									
Hearth									
Landscape									
Consumer Products									
Architectural Coatings	0.53								
TOTALS (tons/year, unmitigated)	0.53								
Area Source Mitigated Detail Report:									
AREA SOURCE EMISSION ESTIMATES	S Annual Tons Per Yo	ear, Mitigated							
<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									
Hearth									
Landscape									
Consumer Products									
Architectural Coatings	0.53								
TOTALS (tons/year, mitigated)	0.53								

Area Source Changes to Defaults

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Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Annual Tons Per Year, Unmitigated

Source	ROG	NOX	СО	SO2	PM10	PM25	CO2
Single family housing	0.01	0.02	0.15	0.00	0.02	0.00	10.47
Day-care center	0.02	0.01	0.12	0.00	0.01	0.00	6.66
Library	0.55	0.62	5.19	0.00	0.60	0.12	315.62
City park	0.02	0.01	0.10	0.00	0.01	0.00	6.68
Racquet club	0.76	0.85	7.14	0.00	0.84	0.16	441.52
Racquetball/health	0.15	0.16	1.37	0.00	0.16	0.03	84.48
Baseball/softball fields	0.13	0.17	1.37	0.00	0.18	0.03	92.99
Basketball courts	0.41	0.56	4.57	0.00	0.60	0.12	309.97
Handball courts	0.08	0.11	0.91	0.00	0.12	0.02	61.99
Tennis courts	0.21	0.28	2.28	0.00	0.30	0.06	154.92
Sports fields (soccer)	0.44	0.60	4.89	0.00	0.64	0.12	331.65
TOTALS (tons/year, unmitigated)	2.78	3.39	28.09	0.00	3.48	0.66	1,816.95

Operational Settings:

Includes correction for passby trips

Includes the following double counting adjustment for internal trips:

Residential Trip % Reduction: 0.00 Nonresidential Trip % Reduction: 0.00

Analysis Year: 2012 Season: Annual

Emfac: Version: Emfac2007 V2.3 Nov 1 2006

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Summary of	f Land I	Uses
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Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Single family housing	0.33	9.57	dwelling units	1.00	9.57	63.94
Day-care center		4.48	1000 sq ft	4.05	18.14	39.34
Library		56.24	1000 sq ft	11.13	625.95	1,904.71
City park		1.59	acres	6.24	9.92	40.88
Racquet club		22.88	1000 sq ft	36.00	823.68	2,673.17
Racquetball/health		15.76	1000 sq ft	10.00	157.60	511.48
Baseball/softball fields		30.00	acres	4.00	120.00	572.76
Basketball courts		200.00	acres	2.00	400.00	1,909.20
Handball courts		40.00	acres	2.00	80.00	381.84
Tennis courts		33.32	acres	6.00	199.92	954.22
Sports fields (soccer)		71.33	acres	6.00	427.98	2,042.75
					2,872.76	11,094.29

# Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	41.6	1.0	98.5	0.5
Light Truck < 3750 lbs	18.8	2.1	91.5	6.4
Light Truck 3751-5750 lbs	19.9	0.5	99.0	0.5
Med Truck 5751-8500 lbs	8.0	1.2	98.8	0.0
Lite-Heavy Truck 8501-10,000 lbs	2.1	0.0	71.4	28.6
Lite-Heavy Truck 10,001-14,000 lbs	1.2	0.0	50.0	50.0
Med-Heavy Truck 14,001-33,000 lbs	1.0	0.0	20.0	80.0

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Vehicle Fleet Mix										
Vehicle Type		Percent Type	Non-Catalyst		Catalyst	Diesel				
Heavy-Heavy Truck 33,001-60,000 lbs		0.3	0.0		0.0	100.0				
Other Bus		0.1	0.0		0.0	100.0				
Urban Bus		0.0	0.0		0.0	0.0				
Motorcycle		5.2	57.7		42.3	0.0				
School Bus		0.1	0.0		0.0	100.0				
Motor Home		1.7	0.0		88.2	11.8				
<u>Travel Conditions</u>										
		Residential								
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer				
Urban Trip Length (miles)	13.0	5.0	5.0	13.0	5.0	5.0				
Rural Trip Length (miles)	13.0	5.0	5.0	13.0	5.0	5.0				
Trip speeds (mph)	35.0	35.0	35.0	35.0	35.0	35.0				
% of Trips - Residential	32.9	18.0	49.1							
% of Trips - Commercial (by land use)										
Day-care center				5.0	2.5	92.5				
Library				5.0	2.5	92.5				
City park				5.0	2.5	92.5				
Racquet club				5.0	2.5	92.5				
Racquetball/health				5.0	2.5	92.5				
Baseball/softball fields				2.0	1.0	97.0				

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## Travel Conditions

		Residential			Commercial			
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer		
Basketball courts				2.0	1.0	97.0		
Handball courts				2.0	1.0	97.0		
Tennis courts				2.0	1.0	97.0		
Sports fields (soccer)				2.0	1.0	97.0		

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#### Urbemis 2007 Version 9.2.4

# Combined Winter Emissions Reports (Pounds/Day)

File Name: P:\15000\15542 Nipomo Community Park Master Plan Program EIR\Reports\A Working EIR\Air Quality\06-14-11 Nipomo Park Urbemis

Operational & Area Calcs\6-15-11 NCP.urb924

Project Name: Nipomo Park EIR Updated AQ Calculations

Project Location: San Luis Obispo County APCD

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

	ROG	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	PM10	PM2.5	<u>CO2</u>	
TOTALS (lbs/day, unmitigated)	2.92							
TOTALS (lbs/day, mitigated)	2.92							
Percent Reduction	0.00	NaN	NaN	NaN	NaN	NaN	NaN	
OPERATIONAL (VEHICLE) EMISSION ESTIMATES								
	ROG	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	PM2.5	<u>CO2</u>	
TOTALS (lbs/day, unmitigated)	17.13	21.80	173.25	0.09	19.12	3.69	9,608.05	
SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES								
	ROG	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	PM2.5	<u>CO2</u>	
TOTALS (lbs/day, unmitigated)	20.05	21.80	173.25	0.09	19.12	3.69	9,608.05	

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

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Area Source Unmitigated Detail Report:							
AREA SOURCE EMISSION ESTIMATES	Winter Pounds Per	Day, Unmitigated					
<u>Source</u>	<u>ROG</u>	<u>NOx</u>	CO	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
Natural Gas							
Hearth							
Landscape							
Consumer Products							
Architectural Coatings	2.92						
TOTALS (lbs/day, unmitigated)	2.92						
Area Source Mitigated Detail Report:							
AREA SOURCE EMISSION ESTIMATES	Winter Pounds Per	Day, Mitigated					
<u>Source</u>	ROG	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
Natural Gas							
Hearth							
Landscape							
Consumer Products							
Architectural Coatings	2.92						
TOTALS (lbs/day, mitigated)	2.92						

Area Source Changes to Defaults

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Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

<u>Source</u>	ROG	NOX	СО	SO2	PM10	PM25	CO2
Single family housing	0.08	0.12	0.91	0.00	0.11	0.02	55.39
Day-care center	0.09	0.09	0.77	0.00	0.07	0.01	35.24
Library	3.45	3.95	32.42	0.02	3.28	0.64	1,669.71
City park	0.07	0.08	0.63	0.00	0.07	0.01	35.33
Racquet club	4.65	5.46	44.42	0.02	4.61	0.89	2,335.45
Racquetball/health	0.89	1.04	8.50	0.00	0.88	0.17	446.86
Baseball/softball fields	0.77	1.08	8.37	0.00	0.99	0.19	491.58
Basketball courts	2.57	3.60	27.88	0.02	3.29	0.63	1,638.59
Handball courts	0.52	0.72	5.58	0.00	0.66	0.13	327.72
Tennis courts	1.29	1.80	13.94	0.01	1.64	0.32	818.97
Sports fields (soccer)	2.75	3.86	29.83	0.02	3.52	0.68	1,753.21
TOTALS (lbs/day, unmitigated)	17.13	21.80	173.25	0.09	19.12	3.69	9,608.05

Operational Settings:

Includes correction for passby trips

Includes the following double counting adjustment for internal trips:

Residential Trip % Reduction: 0.00 Nonresidential Trip % Reduction: 0.00

Analysis Year: 2012 Temperature (F): 50 Season: Winter

Emfac: Version: Emfac2007 V2.3 Nov 1 2006

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Summar	v of l	Land	Uses
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Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Single family housing	0.33	9.57	dwelling units	1.00	9.57	63.94
Day-care center		4.48	1000 sq ft	4.05	18.14	39.34
Library		56.24	1000 sq ft	11.13	625.95	1,904.71
City park		1.59	acres	6.24	9.92	40.88
Racquet club		22.88	1000 sq ft	36.00	823.68	2,673.17
Racquetball/health		15.76	1000 sq ft	10.00	157.60	511.48
Baseball/softball fields		30.00	acres	4.00	120.00	572.76
Basketball courts		200.00	acres	2.00	400.00	1,909.20
Handball courts		40.00	acres	2.00	80.00	381.84
Tennis courts		33.32	acres	6.00	199.92	954.22
Sports fields (soccer)		71.33	acres	6.00	427.98	2,042.75
					2,872.76	11,094.29

# Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	41.6	1.0	98.5	0.5
Light Truck < 3750 lbs	18.8	2.1	91.5	6.4
Light Truck 3751-5750 lbs	19.9	0.5	99.0	0.5
Med Truck 5751-8500 lbs	8.0	1.2	98.8	0.0
Lite-Heavy Truck 8501-10,000 lbs	2.1	0.0	71.4	28.6
Lite-Heavy Truck 10,001-14,000 lbs	1.2	0.0	50.0	50.0
Med-Heavy Truck 14,001-33,000 lbs	1.0	0.0	20.0	80.0

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11/9/2011 1.20.29 PW									
		Vehicle Flee	t Mix						
Vehicle Type		Percent Type	Non-Catalyst		Catalyst	Diesel			
Heavy-Heavy Truck 33,001-60,000 lbs		0.3	0.0		0.0	100.0			
Other Bus		0.1	0.0		0.0	100.0			
Urban Bus		0.0	0.0		0.0	0.0			
Motorcycle		5.2	57.7		42.3	0.0			
School Bus		0.1	0.0		0.0	100.0			
Motor Home		1.7	0.0		88.2	11.8			
<u>Travel Conditions</u>									
		Residential			Commercial				
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer			
Urban Trip Length (miles)	13.0	5.0	5.0	13.0	5.0	5.0			
Rural Trip Length (miles)	13.0	5.0	5.0	13.0	5.0	5.0			
Trip speeds (mph)	35.0	35.0	35.0	35.0	35.0	35.0			
% of Trips - Residential	32.9	18.0	49.1						
% of Trips - Commercial (by land use)									
Day-care center				5.0	2.5	92.5			
Library				5.0	2.5	92.5			
City park				5.0	2.5	92.5			
Racquet club				5.0	2.5	92.5			
Racquetball/health				5.0	2.5	92.5			
Baseball/softball fields				2.0	1.0	97.0			

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## Travel Conditions

	Residential			Commercial			
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer	
Basketball courts				2.0	1.0	97.0	
Handball courts				2.0	1.0	97.0	
Tennis courts				2.0	1.0	97.0	
Sports fields (soccer)				2.0	1.0	97.0	

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#### Urbemis 2007 Version 9.2.4

# Summary Report for Summer Emissions (Pounds/Day)

File Name: P:\15000\15542 Nipomo Community Park Master Plan Program EIR\Reports\A Working EIR\Air Quality\06-14-11 Nipomo Park Urbemis

Operational & Area Calcs\6-15-11 NCP.urb924

Project Name: Nipomo Park EIR Updated AQ Calculations

Project Location: San Luis Obispo County APCD

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

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

#### AREA SOURCE EMISSION ESTIMATES

	ROG	<u>NOx</u>	CO	<u>SO2</u>	<u>PM10</u>	PM2.5	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	2.92						
TOTALS (lbs/day, mitigated)	2.92						
Percent Reduction	0.00	NaN	NaN	NaN	NaN	NaN	NaN
OPERATIONAL (VEHICLE) EMISSION ESTIMATES							
	ROG	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	PM2.5	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	14.26	16.99	144.25	0.09	19.12	3.69	10,129.97
SUM OF AREA SOURCE AND OPERATIONAL E	EMISSION ESTIN	MATES					
	ROG	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	PM2.5	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	17.18	16.99	144.25	0.09	19.12	3.69	10,129.97

# Alternative Master Plan A Air Emissions Screening Analysis

appendices	
	Nipomo Community Park Master Plar

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#### 11/9/2011 1:31:02 PM

#### Urbemis 2007 Version 9.2.4

# Combined Annual Emissions Reports (Tons/Year)

File Name: C:\Documents and Settings\sscott\Desktop\NCP Alternatives Master Plan A.urb924

Project Name: NCP Alternative Master Plan A Screening Analysis

Project Location: San Luis Obispo County APCD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

#### Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Annual Tons Per Year, Unmitigated

<u>Source</u>	ROG	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscape	0.02	0.00	0.25	0.00	0.00	0.00	0.46
Consumer Products	0.00						
Architectural Coatings	0.00						
TOTALS (tons/year, unmitigated)	0.02	0.00	0.25	0.00	0.00	0.00	0.46

Area Source Changes to Defaults

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## 11/9/2011 1:31:02 PM

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Annual Tons Per Year, Unmitigated

<u>Source</u>	ROG	NOX	CO	SO2	PM10	PM25	CO2
City park	0.65	0.92	7.41	0.01	1.11	0.21	571.47
TOTALS (tons/year, unmitigated)	0.65	0.92	7.41	0.01	1.11	0.21	571.47

Operational Settings:

Land Use Type

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2013 Season: Annual

Lite-Heavy Truck 10,001-14,000 lbs

Emfac: Version: Emfac2007 V2.3 Nov 1 2006

## Summary of Land Uses

Acreage

Trip Rate

Unit Type

No. Units

0.0

Total Trips

50.0

Total VMT

50.0

City park	654.00	acres	1.00	654.00	3,531.60
				654.00	3,531.60
	Vehicle Fleet M	<u>lix</u>			
Vehicle Type	Percent Type	Non-Catalyst		Catalyst	Diesel
Light Auto	41.6	0.7		99.1	0.2
Light Truck < 3750 lbs	18.8	1.6		92.0	6.4
Light Truck 3751-5750 lbs	19.9	0.5		99.0	0.5
Med Truck 5751-8500 lbs	8.0	0.0		100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	2.1	0.0		71.4	28.6

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% of Trips - Commercial (by land use)

City park

11/9/2011 1:31:02 PM									
Vehicle Fleet Mix									
Vehicle Type	ype Percent Type Non-Catalyst Catalyst Dies								
Med-Heavy Truck 14,001-33,000 lbs		1.0	0.0		20.0	80.0			
Heavy-Heavy Truck 33,001-60,000 lbs		0.3	0.0		0.0	100.0			
Other Bus		0.1	0.0		0.0	100.0			
Urban Bus		0.0	0.0		0.0	0.0			
Motorcycle		5.2	53.8		46.2	0.0			
School Bus		0.1	0.0		0.0	100.0			
Motor Home		1.7	0.0		88.2	11.8			
		Travel Cond	<u>ditions</u>						
		Residential		(	Commercial				
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer			
Urban Trip Length (miles)	13.0	5.0	5.0	13.0	5.0	5.0			
Rural Trip Length (miles)	13.0	5.0	5.0	13.0	5.0	5.0			
Trip speeds (mph)	35.0	35.0	35.0	35.0	35.0	35.0			
% of Trips - Residential	32.9	18.0	49.1						

2.5

92.5

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#### 11/9/2011 1:30:52 PM

#### Urbemis 2007 Version 9.2.4

# Combined Winter Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\sscott\Desktop\NCP Alternatives Master Plan A.urb924

Project Name: NCP Alternative Master Plan A Screening Analysis

Project Location: San Luis Obispo County APCD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

# Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

<u>Source</u>	ROG	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	PM2.5	<u>CO2</u>
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping - No Winter Emission	ns						
Consumer Products	0.00						
Architectural Coatings	0.00						
TOTALS (lbs/day, unmitigated)	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Area Source Changes to Defaults

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## 11/9/2011 1:30:52 PM

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

	<u>Source</u>	ROG	NOX	CO	SO2	PM10	PM25	CO2
City park	ζ.	4.05	5.90	44.76	0.03	6.08	1.17	3,019.49
TOTALS	(lbs/day, unmitigated)	4.05	5.90	44.76	0.03	6.08	1.17	3,019.49

Operational Settings:

Land Use Type

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2013 Temperature (F): 50 Season: Winter

Emfac: Version: Emfac2007 V2.3 Nov 1 2006

Lite-Heavy Truck 10,001-14,000 lbs

## Summary of Land Uses

Acreage

Trip Rate

Unit Type

No. Units

0.0

Total Trips

50.0

Total VMT

50.0

	1 11 31	- 71			
City park	654.00	acres	1.00 654.00	3,531.60	
			654.00	3,531.60	
	Vehicle Fleet !	<u>Mix</u>			
Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel	
Light Auto	41.6	0.7	99.1	0.2	
Light Truck < 3750 lbs	18.8	1.6	92.0	6.4	
Light Truck 3751-5750 lbs	19.9	0.5	99.0	0.5	
Med Truck 5751-8500 lbs	8.0	0.0	100.0	0.0	
Lite-Heavy Truck 8501-10,000 lbs	2.1	0.0	71.4	28.6	

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% of Trips - Commercial (by land use)

City park

11/9/2011 1:30:52 PM									
Vehicle Fleet Mix									
Vehicle Type		Percent Type	Non-Catalyst	C	Catalyst	Diesel			
Med-Heavy Truck 14,001-33,000 lbs		1.0	0.0		20.0	80.0			
Heavy-Heavy Truck 33,001-60,000 lbs		0.3	0.0		0.0	100.0			
Other Bus		0.1	0.0		0.0	100.0			
Urban Bus		0.0	0.0		0.0	0.0			
Motorcycle		5.2	53.8		46.2	0.0			
School Bus		0.1	0.0		0.0	100.0			
Motor Home		1.7	0.0		88.2	11.8			
		Travel Cond	<u>ditions</u>						
		Residential		Commercial					
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer			
Urban Trip Length (miles)	13.0	5.0	5.0	13.0	5.0	5.0			
Rural Trip Length (miles)	13.0	5.0	5.0	13.0	5.0	5.0			
Trip speeds (mph)	35.0	35.0	35.0	35.0	35.0	35.0			
% of Trips - Residential	32.9	18.0	49.1						

5.0

2.5

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#### Urbemis 2007 Version 9.2.4

# Summary Report for Summer Emissions (Pounds/Day)

File Name: C:\Documents and Settings\sscott\Desktop\NCP Alternatives Master Plan A.urb924

Project Name: NCP Alternative Master Plan A Screening Analysis

Project Location: San Luis Obispo County APCD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

#### **CONSTRUCTION EMISSION ESTIMATES**

	ROG	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	PM10 Dust PI	M10 Exhaust	<u>PM10</u>	PM2.5 Dust	PM2.5 Exhaust	PM2.5	<u>CO2</u>
2007 TOTALS (lbs/day unmitigated)	9.98	62.41	35.93	0.01	137.64	3.78	141.42	28.75	3.48	32.23	5,007.70
2008 TOTALS (lbs/day unmitigated)	13.72	77.53	49.69	0.01	137.65	4.94	142.59	28.75	4.54	33.29	6,831.48
AREA SOURCE EMISSION ESTIMATES											
		ROG	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	PM2.5	<u>CO2</u>			
TOTALS (lbs/day, unmitigated)		0.12	0.02	1.55	0.00	0.01	0.01	2.81			
OPERATIONAL (VEHICLE) EMISSION ES	STIMATES										
		ROG	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	PM2.5	<u>CO2</u>			
TOTALS (lbs/day, unmitigated)		3.31	4.59	38.54	0.03	6.08	1.17	3,187.25			

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	COLIDOR AND		EMISSION ESTIMATES
SUIVI OF AREA	SOURCE AINL	OPERATIONAL	. EIVIIOOIUN EO HIVIATEO

	ROG	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	PM2.5	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	3.43	4.61	40.09	0.03	6.09	1.18	3,190.06