

Air Quality Emissions Calculations

ALTERNATIVE A

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\Ione\Alt A - Ione - Phase I Construct
Project Name: Alt A - Ione - Phase I Construction
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Summer)

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2008 ***							
TOTALS (lbs/day,unmitigated)	20.33	148.55	166.50	0.10	21.58	4.95	16.63
*** 2009 ***							
TOTALS (lbs/day,unmitigated)	242.02	245.26	221.49	0.21	7.87	7.53	0.34

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\Ione\Alt.A - Ione - Phase I Construc'
Project Name: Alt A - Ione - Phase I Construction
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Tons/Year)

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2008 *** TOTALS (tpy, unmitigated)	1.47	9.98	12.07	0.00	0.67	0.37	0.30
*** 2009 *** TOTALS (tpy, unmitigated)	3.45	7.66	9.57	0.00	0.27	0.26	0.01

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\Ione\Alt A - Ione - Phase I Construct
 Project Name: Alt A - Ione - Phase I Construction
 Project Location: Mountain Counties and Rural Counties
 On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Summer)

Construction Start Month and Year: June, 2008
 Construction Duration: 12
 Total Land Use Area to be Developed: 5.5 acres
 Maximum Acreage Disturbed Per Day: 1.4 acres
 Single Family Units: 0 Multi-Family Units: 0
 Retail/Office/Institutional/Industrial Square Footage: 120000

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2008***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	16.38	-	16.38
Off-Road Diesel	11.44	81.04	88.83	-	3.34	3.34	0.00
On-Road Diesel	1.95	67.21	8.63	0.10	1.05	0.82	0.23
Worker Trips	0.09	0.30	3.04	0.00	0.03	0.01	0.02
Maximum lbs/day	13.48	148.55	100.50	0.10	20.80	4.17	16.63
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	14.00	-	14.00
Off-Road Diesel	17.01	112.21	137.59	-	4.26	4.26	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.21	0.53	5.69	0.00	0.04	0.01	0.03
Maximum lbs/day	17.22	112.74	143.28	0.00	18.30	4.27	14.03
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	20.11	131.29	163.70	-	4.95	4.95	0.00
Bldg Const Worker Trips	0.21	0.13	2.80	0.00	0.10	0.00	0.10
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	20.33	131.43	166.50	0.00	5.05	4.95	0.10
Max lbs/day all phases	20.33	148.55	166.50	0.10	21.58	4.95	16.63
*** 2009***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	20.11	127.28	166.15	-	4.61	4.61	0.00
Bldg Const Worker Trips	0.20	0.12	2.58	0.00	0.10	0.00	0.10
Arch Coatings Off-Gas	201.82	-	-	-	-	-	-
Arch Coatings Worker Trips	0.19	0.10	2.18	0.00	0.10	0.00	0.10
Asphalt Off-Gas	10.72	-	-	-	-	-	-
Asphalt Off-Road Diesel	3.78	23.05	31.57	-	0.74	0.74	0.00
Asphalt On-Road Diesel	5.20	94.72	19.19	0.21	2.31	2.18	0.13
Asphalt Worker Trips	0.02	0.01	0.23	0.00	0.01	0.00	0.01
Maximum lbs/day	242.02	245.26	221.49	0.21	7.87	7.53	0.34
Max lbs/day all phases	242.02	245.26	221.49	0.21	7.87	7.53	0.34

Phase 1 - Demolition Assumptions

Start Month/Year for Phase 1: Jun '08
Phase 1 Duration: 0.6 months
Building Volume Total (cubic feet): 390000
Building Volume Daily (cubic feet): 39000
On-Road Truck Travel (VMT): 2166

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Crushing/Processing Equip	154	0.780	8.0
2	Rubber Tired Dozers	352	0.590	8.0
1	Rubber Tired Loaders	165	0.465	8.0
1	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jun '08
Phase 2 Duration: 1.2 months
On-Road Truck Travel (VMT): 0

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Excavators	180	0.580	8.0
1	Graders	174	0.575	8.0
1	Off Highway Trucks	417	0.490	8.0
2	Other Equipment	190	0.620	8.0
1	Rubber Tired Dozers	352	0.590	8.0
1	Rubber Tired Loaders	165	0.465	8.0
1	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Jul '08
Phase 3 Duration: 10.2 months
Start Month/Year for SubPhase Building: Jul '08

SubPhase Building Duration: 10.2 months

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Cranes	190	0.430	8.0
1	Excavators	180	0.580	8.0
1	Graders	174	0.575	8.0
1	Rough Terrain Forklifts	94	0.475	8.0
1	Rubber Tired Dozers	352	0.590	8.0
1	Rubber Tired Loaders	165	0.465	8.0
1	Scrapers	313	0.660	8.0
1	Skid Steer Loaders	62	0.515	8.0
1	Surfacing Equipment	437	0.490	8.0
2	Tractor/Loaders/Backhoes	79	0.465	8.0

Start Month/Year for SubPhase Architectural Coatings: May '09

SubPhase Architectural Coatings Duration: 1 months

Start Month/Year for SubPhase Asphalt: May '09

SubPhase Asphalt Duration: 0.5 months

Acres to be Paved: 45

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Pavers	132	0.590	8.0
1	Paving Equipment	111	0.530	8.0

Changes made to the default values for Land Use Trip Percentages

The Primary Trip % for Racquet club changed from 50 to 97
The Diverted Trip % for Racquet club changed from 40 to 0
The Pass-By Trip % for Racquet club changed from 10 to 3

Changes made to the default values for Construction

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\Ione\Alt A - Ione - Phase I Operatio
Project Name: Alt A - Ione - Phase I Operations
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Summer)

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	1.89	1.16	1.75	0.00	0.00

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	145.95	391.06	2,397.02	1.88	336.63

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	147.84	392.22	2,398.78	1.88	336.63

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\Ione\Alt A - Ione - Phase I Operatio
Project Name: Alt A - Ione - Phase I Operations
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Tons/Year)

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	0.25	0.21	0.25	0.00	0.00

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	29.61	75.80	466.18	0.34	61.43

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	29.86	76.01	466.43	0.34	61.44

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\Ione\Alt A - Ione - Phase I Operatio
Project Name: Alt A - Ione - Phase I Operations
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Summer)

AREA SOURCE EMISSION ESTIMATES (Summer Pounds per Day, Unmitigated)					
Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.08	1.16	0.97	0	0.00
Hearth - No summer emissions					
Landscaping	0.12	0.00	0.78	0.00	0.00
Consumer Prdcts	0.00	-	-	-	-
Architectural Coatings	1.68	-	-	-	-
TOTALS(lbs/day,unmitigated)	1.89	1.16	1.75	0.00	0.00

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Casino	145.95	391.06	2,397.02	1.88	336.63
TOTAL EMISSIONS (lbs/day)	145.95	391.06	2,397.02	1.88	336.63

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

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2009 Temperature (F): 60 Season: Summer

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Casino		68.24 trips/1000 sq. ft.	120.00	8,188.80
			Sum of Total Trips	8,188.80
			Total Vehicle Miles Traveled	222,476.59

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	54.90	1.30	98.40	0.30
Light Truck < 3,750 lbs	15.10	2.60	95.40	2.00
Light Truck 3,751- 5,750	16.10	1.20	98.10	0.70
Med Truck 5,751- 8,500	7.30	1.40	95.90	2.70
Lite-Heavy 8,501-10,000	1.10	0.00	81.80	18.20
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	1.00	0.00	20.00	80.00
Heavy-Heavy 33,001-60,000	0.90	0.00	11.10	88.90
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.60	75.00	25.00	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	1.40	7.10	85.70	7.20

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	10.8	7.3	7.5	9.5	7.4	7.4
Rural Trip Length (miles)	28.0	28.0	28.0	28.0	28.0	28.0
Trip Speeds (mph)	35.0	35.0	35.0	55.0	55.0	55.0
% of Trips - Residential	32.9	18.0	49.1			

% of Trips - Commercial (by land use)

Casino	5.0	2.5	92.5
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Changes made to the default values for Land Use Trip Percentages

The Primary Trip % for Racquet club changed from 50 to 97
The Diverted Trip % for Racquet club changed from 40 to 0
The Pass-By Trip % for Racquet club changed from 10 to 3

Changes made to the default values for Area

Changes made to the default values for Operations

The pass by trips option switch changed from off to on.
The operational emission year changed from 2005 to 2009.
The home based work selection item changed from 8 to 7.
The home based work rural trip length changed from 16.8 to 28.
The home based shopping selection item changed from 8 to 7.
The home based shopping rural trip length changed from 7.1 to 28.
The home based other selection item changed from 8 to 7.
The home based other rural trip length changed from 7.9 to 28.
The commercial based commute trip speed changed from 35 to 55.
The commercial based commute selection item changed from 8 to 11.
The commercial based commute rural trip length changed from 14.7 to 28.
The commercial based non-work trip speed changed from 35 to 55.
The commercial based non-work selection item changed from 8 to 11.
The commercial based non-work rural trip length changed from 6.6 to 28.
The commercial based customer trip speed changed from 35 to 55.
The commercial based customer selection item changed from 8 to 11.
The commercial based customer rural trip length changed from 6.6 to 28.

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\Ione\Alt A - Ione - Phase I Ops and !
 Project Name: Alt A - Ione - Phase I Ops. and Phase II Const.
 Project Location: Mountain Counties and Rural Counties
 On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
 (Pounds/Day - Summer)

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2009 ***							
TOTALS (lbs/day, unmitigated)	15.89	104.89	131.63	0.00	9.16	4.14	5.02
TOTALS (lbs/day, mitigated)	12.93	83.90	105.82	0.00	4.64	3.23	1.41

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2010 ***							
TOTALS (lbs/day, unmitigated)	207.43	143.52	176.67	0.05	5.07	4.83	0.24
TOTALS (lbs/day, mitigated)	207.43	143.52	176.67	0.05	5.07	4.83	0.24

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day, unmitigated)	1.89	1.16	1.75	0.00	0.00

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day, unmitigated)	145.95	391.06	2,397.02	1.88	336.63

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day, unmitigated)	147.84	392.22	2,398.78	1.88	336.63

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\Ione\Alt A - Ione - Phase I Ops and
 Project Name: Alt A - Ione - Phase I Ops. and Phase II Const.
 Project Location: Mountain Counties and Rural Counties
 On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
 (Tons/Year)

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2009 ***							
TOTALS (tpy, unmitigated)	1.03	6.76	8.50	0.00	0.34	0.26	0.08
TOTALS (tpy, mitigated)	0.83	6.16	6.86	0.00	0.24	0.21	0.03
*** 2010 ***							
TOTALS (tpy, unmitigated)	2.99	4.77	6.32	0.00	0.18	0.17	0.01
TOTALS (tpy, mitigated)	2.99	4.77	6.32	0.00	0.18	0.17	0.01

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	0.25	0.21	0.25	0.00	0.00

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	29.61	75.80	466.18	0.34	61.43

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	29.86	76.01	466.43	0.34	61.44

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\Ione\Alt A - Ione - Phase I Ops and I
 Project Name: Alt A - Ione - Phase I Ops. and Phase II Const.
 Project Location: Mountain Counties and Rural Counties
 On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Summer)

Construction Start Month and Year: June, 2009
 Construction Duration: 12
 Total Land Use Area to be Developed: 15 acres
 Maximum Acreage Disturbed Per Day: 0.5 acres
 Single Family Units: 0 Multi-Family Units: 0
 Retail/Office/Institutional/Industrial Square Footage: 120000

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2009***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	5.00	-	5.00
Off-Road Diesel	15.72	104.46	126.96	-	4.13	4.13	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.17	0.43	4.67	0.00	0.03	0.01	0.02
Maximum lbs/day	15.89	104.89	131.63	0.00	9.16	4.14	5.02
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	12.74	83.78	103.24	-	3.23	3.23	0.00
Bldg Const Worker Trips	0.20	0.12	2.58	0.00	0.10	0.00	0.10
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	12.93	83.90	105.82	0.00	3.33	3.23	0.10
Max lbs/day all phases	15.89	104.89	131.63	0.00	9.16	4.14	5.02
*** 2010***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	12.74	80.39	105.72	-	2.95	2.95	0.00
Bldg Const Worker Trips	0.18	0.11	2.37	0.00	0.10	0.00	0.10
Arch Coatings Off-Gas	183.47	-	-	-	-	-	-
Arch Coatings Worker Trips	0.17	0.09	2.00	0.00	0.10	0.00	0.10
Asphalt Off-Gas	2.38	-	-	-	-	-	-
Asphalt Off-Road Diesel	7.42	44.44	62.79	-	1.44	1.44	0.00
Asphalt On-Road Diesel	1.05	18.50	3.90	0.05	0.46	0.43	0.03
Asphalt Worker Trips	0.02	0.01	0.26	0.00	0.01	0.00	0.01
Maximum lbs/day	207.43	143.52	176.67	0.05	5.07	4.83	0.24
Max lbs/day all phases	207.43	143.52	176.67	0.05	5.07	4.83	0.24

Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	12.74	80.39	105.72	-	2.95	2.95	0.00
Bldg Const Worker Trips	0.18	0.11	2.37	0.00	0.10	0.00	0.10
Arch Coatings Off-Gas	183.47	-	-	-	-	-	-
Arch Coatings Worker Trips	0.17	0.09	2.00	0.00	0.10	0.00	0.10
Asphalt Off-Gas	2.38	-	-	-	-	-	-
Asphalt Off-Road Diesel	7.42	44.44	62.79	-	1.44	1.44	0.00
Asphalt On-Road Diesel	1.05	18.50	3.90	0.05	0.46	0.43	0.03
Asphalt Worker Trips	0.02	0.01	0.26	0.00	0.01	0.00	0.01
Maximum lbs/day	207.43	143.52	176.67	0.05	5.07	4.83	0.24
Max lbs/day all phases	207.43	143.52	176.67	0.05	5.07	4.83	0.24

Construction-Related Mitigation Measures

Phase 2: Soil Disturbance: Water exposed surfaces - 2x daily
 Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 34.0%)
 Phase 2: Off-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR)
 Percent Reduction(ROG 90.0% NOx 40.0% CO 90.0% SO2 0.0% PM10 85.0%)
 Phase 2: On-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR)
 Percent Reduction(ROG 90.0% NOx 40.0% CO 90.0% SO2 0.0% PM10 85.0%)
 Phase 2: Unpaved Roads: Water all haul roads 2x daily
 Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 30.0%)
 Phase 2: Unpaved Roads: Reduce speed on unpaved roads to < 15 mph
 Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 40.0%)
 Phase 1 - Demolition Assumptions: Phase Turned OFF

Phase 2 - Site Grading Assumptions
 Start Month/Year for Phase 2: Jun '09
 Phase 2 Duration: 1.3 months
 On-Road Truck Travel (VMT): 0
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Excavators	180	0.580	8.0
1	Graders	174	0.575	8.0
2	Other Equipment	190	0.620	8.0
2	Rubber Tired Dozers	352	0.590	8.0
1	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions
 Start Month/Year for Phase 3: Jul '09
 Phase 3 Duration: 10.7 months
 Start Month/Year for SubPhase Building: Jul '09
 SubPhase Building Duration: 10.7 months
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Concrete/Industrial saws	84	0.730	8.0
1	Cranes	190	0.430	8.0
1	Rough Terrain Forklifts	94	0.475	8.0
1	Rubber Tired Dozers	352	0.590	8.0
1	Rubber Tired Loaders	165	0.465	8.0
1	Surfacing Equipment	437	0.490	8.0
1	Tractor/Loaders/Backhoes	79	0.465	8.0

Start Month/Year for SubPhase Architectural Coatings: Apr '10
 SubPhase Architectural Coatings Duration: 1.1 months
 Start Month/Year for SubPhase Asphalt: May '10
 SubPhase Asphalt Duration: 0.5 months
 Acres to be Paved: 10

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Pavers	132	0.590	8.0
1	Paving Equipment	111	0.530	8.0
1	Scrapers	313	0.660	8.0

AREA SOURCE EMISSION ESTIMATES (Summer Pounds per Day, Unmitigated)					
Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.08	1.16	0.97	0	0.00
Hearth - No summer emissions					
Landscaping	0.12	0.00	0.78	0.00	0.00
Consumer Prdcts	0.00	-	-	-	-
Architectural Coatings	1.68	-	-	-	-
TOTALS(lbs/day,unmitigated)	1.89	1.16	1.75	0.00	0.00

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Casino	145.95	391.06	2,397.02	1.88	336.63
TOTAL EMISSIONS (lbs/day)	145.95	391.06	2,397.02	1.88	336.63

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

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2009 Temperature (F): 60 Season: Summer

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreeage	Trip Rate	No. Units	Total Trips
Casino		68.24 trips/1000 sq. ft.	120.00	8,188.80
Sum of Total Trips				8,188.80
Total Vehicle Miles Traveled				222,476.59

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	54.90	1.30	98.40	0.30
Light Truck < 3,750 lbs	15.10	2.60	95.40	2.00
Light Truck 3,751- 5,750	16.10	1.20	98.10	0.70
Med Truck 5,751- 8,500	7.30	1.40	95.90	2.70
Lite-Heavy 8,501-10,000	1.10	0.00	81.80	18.20
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	1.00	0.00	20.00	80.00
Heavy-Heavy 33,001-60,000	0.90	0.00	11.10	88.90
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.60	75.00	25.00	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	1.40	7.10	85.70	7.20

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	10.8	7.3	7.5	9.5	7.4	7.4
Rural Trip Length (miles)	28.0	28.0	28.0	28.0	28.0	28.0
Trip Speeds (mph)	35.0	35.0	35.0	55.0	55.0	55.0
% of Trips - Residential	32.9	18.0	49.1			
% of Trips - Commercial (by land use)						
Casino				5.0	2.5	92.5

Changes made to the default values for Land Use Trip Percentages

The Primary Trip % for Racquet club changed from 50 to 97
The Diverted Trip % for Racquet club changed from 40 to 0
The Pass-By Trip % for Racquet club changed from 10 to 3

Changes made to the default values for Construction

Phase 2 mitigation measure Soil Disturbance: Water exposed surfaces - 2x daily
has been changed from off to on.
Phase 2 mitigation measure Off-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR)
has been changed from off to on.
Phase 2 mitigation measure On-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR)
has been changed from off to on.
Phase 2 mitigation measure Unpaved Roads: Water all haul roads 2x daily
has been changed from off to on.
Phase 2 mitigation measure Unpaved Roads: Reduce speed on unpaved roads to < 15 mph
has been changed from off to on.

Changes made to the default values for Area

Changes made to the default values for Operations

The pass by trips option switch changed from off to on.
The operational emission year changed from 2005 to 2009.
The home based work selection item changed from 8 to 7.
The home based work rural trip length changed from 16.8 to 28.
The home based shopping selection item changed from 8 to 7.
The home based shopping rural trip length changed from 7.1 to 28.
The home based other selection item changed from 8 to 7.
The home based other rural trip length changed from 7.9 to 28.
The commercial based commute trip speed changed from 35 to 55.
The commercial based commute selection item changed from 8 to 11.
The commercial based commute rural trip length changed from 14.7 to 28.
The commercial based non-work trip speed changed from 35 to 55.
The commercial based non-work selection item changed from 8 to 11.
The commercial based non-work rural trip length changed from 6.6 to 28.
The commercial based customer trip speed changed from 35 to 55.
The commercial based customer selection item changed from 8 to 11.
The commercial based customer rural trip length changed from 6.6 to 28.

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\Ione\Alt A - Ione - Phase I & II Ope:
Project Name: Alt A - Ione - Phase I & II Operations
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Summer)

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	5.75	5.45	6.91	0.00	0.02

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	191.07	503.20	3,092.23	2.65	476.02

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	196.82	508.65	3,099.14	2.65	476.04

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\Ione\Alt A - Ione - Phase I & II Ope:
Project Name: Alt A - Ione - Phase I & II Operations
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMPAC2002 version 2.2

SUMMARY REPORT
(Tons/Year)

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	0.76	0.99	1.04	0.00	0.00

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	38.62	97.53	601.01	0.49	86.87

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	39.38	98.52	602.05	0.49	86.88

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\Ione\Alt A - Ione - Phase I & II Ope:
Project Name: Alt A - Ione - Phase I & II Operations
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Summer)

AREA SOURCE EMISSION ESTIMATES (Summer Pounds per Day, Unmitigated)					
Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.39	5.44	4.57	0	0.01
Hearth - No summer emissions					
Landscaping	0.37	0.01	2.34	0.00	0.01
Consumer Prdcts	0.00	-	-	-	-
Architectural Coatings	4.98	-	-	-	-
TOTALS(lbs/day,unmitigated)	5.75	5.45	6.91	0.00	0.02

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Event and Convention Cent	45.82	115.39	710.46	0.61	108.96
Casino	132.81	355.47	2,183.15	1.88	336.45
Hotel	12.45	32.34	198.62	0.17	30.61
TOTAL EMISSIONS (lbs/day)	191.07	503.20	3,092.23	2.65	476.02

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

OPERATIONAL (Vehicle) EMISSION ESTIMATES

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

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Event and Convention Cent		2.38 trips/students	1,200.00	2,856.00
Casino		68.24 trips/1000 sq. ft.	120.00	8,188.80
Hotel		2.98 trips/rooms	250.00	745.00
			Sum of Total Trips	11,789.80
			Total Vehicle Miles Traveled	314,768.22

Vehicle Assumptions:

Fleet Mix:

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

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	10.8	7.3	7.5	9.5	7.4	7.4
Rural Trip Length (miles)	28.0	28.0	28.0	28.0	28.0	28.0
Trip Speeds (mph)	35.0	35.0	35.0	55.0	55.0	55.0
% of Trips - Residential	32.9	18.0	49.1			

% of Trips - Commercial (by land use)

Event and Convention Center	5.0	2.5	92.5
Casino	5.0	2.5	92.5
Hotel	5.0	2.5	92.5

Changes made to the default values for Land Use Trip Percentages

The Diverted Trip % for University/college (4 yrs) changed from 10 to 0
The Pass-By Trip % for University/college (4 yrs) changed from 0 to 10
The Primary Trip % for Racquet club changed from 50 to 97
The Diverted Trip % for Racquet club changed from 40 to 0
The Pass-By Trip % for Racquet club changed from 10 to 3
The Primary Trip % for Hotel changed from 60 to 97
The Diverted Trip % for Hotel changed from 35 to 0
The Pass-By Trip % for Hotel changed from 5 to 3

Changes made to the default values for Area

Changes made to the default values for Operations

The pass by trips option switch changed from off to on.
The operational emission year changed from 2005 to 2010.
The home based work selection item changed from 8 to 7.
The home based work rural trip length changed from 16.8 to 28.
The home based shopping selection item changed from 8 to 7.
The home based shopping rural trip length changed from 7.1 to 28.
The home based other selection item changed from 8 to 7.
The home based other rural trip length changed from 7.9 to 28.
The commercial based commute trip speed changed from 35 to 55.
The commercial based commute selection item changed from 8 to 11.
The commercial based commute rural trip length changed from 14.7 to 28.
The commercial based non-work trip speed changed from 35 to 55.
The commercial based non-work selection item changed from 8 to 11.
The commercial based non-work rural trip length changed from 6.6 to 28.
The commercial based customer trip speed changed from 35 to 55.
The commercial based customer selection item changed from 8 to 11.
The commercial based customer rural trip length changed from 6.6 to 28.

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\Ione\Alt A - Ione - Long-Term Phase I
Project Name: Alt A - Ione - Long-Term Phase I & II Operations
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Summer)

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	5.75	5.45	6.91	0.00	0.02

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	64.92	137.60	886.21	2.65	474.70

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	70.67	143.05	893.12	2.65	474.72

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\Ione\Alt A - Ione - Long-Term Phase I
Project Name: Alt A - Ione - Long-Term Phase I & II Operations
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Tons/Year)

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	0.76	0.99	1.04	0.00	0.00

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	13.02	26.64	169.98	0.48	86.63

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	13.79	27.63	171.02	0.48	86.64

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\Ione\Alt A - Ione - Long-Term Phase I
Project Name: Alt A - Ione - Long-Term Phase I & II Operations
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Summer)

AREA SOURCE EMISSION ESTIMATES (Summer Pounds per Day, Unmitigated)					
Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.39	5.44	4.57	0	0.01
Hearth - No summer emissions					
Landscaping	0.37	0.01	2.34	0.00	0.01
Consumer Prdcts	0.00	-	-	-	-
Architectural Coatings	4.98	-	-	-	-
TOTALS (lbs/day, unmitigated)	5.75	5.45	6.91	0.00	0.02

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Event and Convention Cent	15.96	31.56	203.69	0.61	108.66
Casino	44.66	97.20	625.61	1.87	335.51
Hotel	4.30	8.84	56.92	0.17	30.52
TOTAL EMISSIONS (lbs/day)	64.92	137.60	886.21	2.65	474.70

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

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2025 Temperature (F): 60 Season: Summer

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Event and Convention Cent		2.38 trips/students	1,200.00	2,856.00
Casino		68.24 trips/1000 sq. ft.	120.00	8,188.80
Hotel		2.98 trips/rooms	250.00	745.00
			Sum of Total Trips	11,789.80
			Total Vehicle Miles Traveled	314,768.22

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	53.50	0.00	100.00	0.00
Light Truck < 3,750 lbs	15.70	0.00	99.40	0.60
Light Truck 3,751- 5,750	16.50	0.00	100.00	0.00
Med Truck 5,751- 8,500	7.50	0.00	98.70	1.30
Lite-Heavy 8,501-10,000	1.00	0.00	80.00	20.00
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	0.90	0.00	22.20	77.80
Heavy-Heavy 33,001-60,000	0.80	0.00	0.00	100.00
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.50	40.00	60.00	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	2.00	0.00	90.00	10.00

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	10.8	7.3	7.5	9.5	7.4	7.4
Rural Trip Length (miles)	28.0	28.0	28.0	28.0	28.0	28.0
Trip Speeds (mph)	35.0	35.0	35.0	55.0	55.0	55.0
% of Trips - Residential	32.9	18.0	49.1			

% of Trips - Commercial (by land use)

Event and Convention Center	5.0	2.5	92.5
Casino	5.0	2.5	92.5
Hotel	5.0	2.5	92.5

Changes made to the default values for Land Use Trip Percentages

The Diverted Trip % for University/college (4 yrs) changed from 10 to 0
The Pass-By Trip % for University/college (4 yrs) changed from 0 to 10
The Primary Trip % for Racquet club changed from 50 to 97
The Diverted Trip % for Racquet club changed from 40 to 0
The Pass-By Trip % for Racquet club changed from 10 to 3
The Primary Trip % for Hotel changed from 60 to 97
The Diverted Trip % for Hotel changed from 35 to 0
The Pass-By Trip % for Hotel changed from 5 to 3

Changes made to the default values for Area

Changes made to the default values for Operations

The pass by trips option switch changed from off to on.
The operational emission year changed from 2005 to 2025.
The home based work selection item changed from 8 to 7.
The home based work rural trip length changed from 16.8 to 28.
The home based shopping selection item changed from 8 to 7.
The home based shopping rural trip length changed from 7.1 to 28.
The home based other selection item changed from 8 to 7.
The home based other rural trip length changed from 7.9 to 28.
The commercial based commute trip speed changed from 35 to 55.
The commercial based commute selection item changed from 8 to 11.
The commercial based commute rural trip length changed from 14.7 to 28.
The commercial based non-work trip speed changed from 35 to 55.
The commercial based non-work selection item changed from 8 to 11.
The commercial based non-work rural trip length changed from 6.6 to 28.
The commercial based customer trip speed changed from 35 to 55.
The commercial based customer selection item changed from 8 to 11.
The commercial based customer rural trip length changed from 6.6 to 28.

ALTERNATIVE B

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\Ione\Alt B - Ione - Phase I Construction
Project Name: Alt B - Ione - Phase I Construction
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Summer)

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2008 *** TOTALS (lbs/day, unmitigated)	20.29	148.55	166.05	0.10	21.58	4.95	16.63

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2009 *** TOTALS (lbs/day, unmitigated)	209.59	245.23	220.79	0.21	7.83	7.53	0.30

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\Ione\Alt B - Ione - Phase I Construc
Project Name: Alt B - Ione - Phase I Construction
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Tons/Year)

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2008 *** TOTALS (tpy, unmitigated)	1.47	9.98	12.05	0.00	0.66	0.37	0.29
*** 2009 *** TOTALS (tpy, unmitigated)	3.09	7.66	9.55	0.00	0.26	0.26	0.00

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\Ione\Alt B - Ione - Phase I Construct
 Project Name: Alt B - Ione - Phase I Construction
 Project Location: Mountain Counties and Rural Counties
 On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Summer)

Construction Start Month and Year: June, 2008
 Construction Duration: 12
 Total Land Use Area to be Developed: 5.5 acres
 Maximum Acreage Disturbed Per Day: 1.4 acres
 Single Family Units: 0 Multi-Family Units: 0
 Retail/Office/Institutional/Industrial Square Footage: 100750

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2008***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	16.38	-	16.38
Off-Road Diesel	11.44	81.04	88.83	-	3.34	3.34	0.00
On-Road Diesel	1.95	67.21	8.63	0.10	1.05	0.82	0.23
Worker Trips	0.09	0.30	3.04	0.00	0.03	0.01	0.02
Maximum lbs/day	13.48	148.55	100.50	0.10	20.80	4.17	16.63
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	14.00	-	14.00
Off-Road Diesel	17.01	112.21	137.59	-	4.26	4.26	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.21	0.53	5.69	0.00	0.04	0.01	0.03
Maximum lbs/day	17.22	112.74	143.28	0.00	18.30	4.27	14.03
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	20.11	131.29	163.70	-	4.95	4.95	0.00
Bldg Const Worker Trips	0.18	0.11	2.35	0.00	0.08	0.00	0.08
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	20.29	131.41	166.05	0.00	5.03	4.95	0.08
Max lbs/day all phases	20.29	148.55	166.05	0.10	21.58	4.95	16.63
*** 2009***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	20.11	127.28	166.15	-	4.61	4.61	0.00
Bldg Const Worker Trips	0.16	0.10	2.17	0.00	0.08	0.00	0.08
Arch Coatings Off-Gas	169.44	-	-	-	-	-	-
Arch Coatings Worker Trips	0.16	0.08	1.83	0.00	0.08	0.00	0.08
Asphalt Off-Gas	10.72	-	-	-	-	-	-
Asphalt Off-Road Diesel	3.78	23.05	31.57	-	0.74	0.74	0.00
Asphalt On-Road Diesel	5.20	94.72	19.19	0.21	2.31	2.18	0.13
Asphalt Worker Trips	0.02	0.01	0.23	0.00	0.01	0.00	0.01
Maximum lbs/day	209.59	245.23	220.79	0.21	7.83	7.53	0.30
Max lbs/day all phases	209.59	245.23	220.79	0.21	7.83	7.53	0.30

Phase 1 - Demolition Assumptions
 Start Month/Year for Phase 1: Jun '08
 Phase 1 Duration: 0.6 months
 Building Volume Total (cubic feet): 390000
 Building Volume Daily (cubic feet): 39000
 On-Road Truck Travel (VMT): 2166
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Crushing/Processing Equip	154	0.780	8.0
2	Rubber Tired Dozers	352	0.590	8.0
1	Rubber Tired Loaders	165	0.465	8.0
1	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 2 - Site Grading Assumptions
 Start Month/Year for Phase 2: Jun '08
 Phase 2 Duration: 1.2 months
 On-Road Truck Travel (VMT): 0
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Excavators	180	0.580	8.0
1	Graders	174	0.575	8.0
1	Off Highway Trucks	417	0.490	8.0
2	Other Equipment	190	0.620	8.0
1	Rubber Tired Dozers	352	0.590	8.0
1	Rubber Tired Loaders	165	0.465	8.0
1	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions
 Start Month/Year for Phase 3: Jul '08
 Phase 3 Duration: 10.2 months
 Start Month/Year for SubPhase Building: Jul '08
 SubPhase Building Duration: 10.2 months
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Cranes	190	0.430	8.0
1	Excavators	180	0.580	8.0
1	Graders	174	0.575	8.0
1	Rough Terrain Forklifts	94	0.475	8.0
1	Rubber Tired Dozers	352	0.590	8.0
1	Rubber Tired Loaders	165	0.465	8.0
1	Scrapers	313	0.660	8.0
1	Skid Steer Loaders	62	0.515	8.0
1	Surfacing Equipment	437	0.490	8.0
2	Tractor/Loaders/Backhoes	79	0.465	8.0

Start Month/Year for SubPhase Architectural Coatings: May '09
 SubPhase Architectural Coatings Duration: 1 months
 Start Month/Year for SubPhase Asphalt: May '09
 SubPhase Asphalt Duration: 0.5 months
 Acres to be Paved: 45
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Pavers	132	0.590	8.0
1	Paving Equipment	111	0.530	8.0

Changes made to the default values for Land Use Trip Percentages

The Primary Trip % for Racquet club changed from 50 to 97
The Diverted Trip % for Racquet club changed from 40 to 0
The Pass-By Trip % for Racquet club changed from 10 to 3

Changes made to the default values for Construction

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\Ione\Alt B - Ione - Phase I Operatio
Project Name: Alt B - Ione - Phase I Operations
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Summer)

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	1.61	0.98	1.60	0.00	0.00

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	122.54	328.33	2,012.50	1.58	282.63

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	124.14	329.31	2,014.10	1.58	282.63

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\Ione\Alt B - Ione - Phase I Operatio
Project Name: Alt B - Ione - Phase I Operations
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Tons/Year)

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	0.21	0.18	0.22	0.00	0.00

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	24.86	63.64	391.40	0.29	51.58

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	25.07	63.82	391.62	0.29	51.58

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\Ione\Alt B - Ione - Phase I Operatio
Project Name: Alt B - Ione - Phase I Operations
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Summer)

AREA SOURCE EMISSION ESTIMATES (Summer Pounds per Day, Unmitigated)					
Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.07	0.97	0.82	0	0.00
Hearth - No summer emissions					
Landscaping	0.12	0.00	0.78	0.00	0.00
Consumer Prdcts	0.00	-	-	-	-
Architectural Coatings	1.41	-	-	-	-
TOTALS(lbs/day, unmitigated)	1.61	0.98	1.60	0.00	0.00

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Casino	122.54	328.33	2,012.50	1.58	282.63
TOTAL EMISSIONS (lbs/day)	122.54	328.33	2,012.50	1.58	282.63

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

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2009 Temperature (F): 60 Season: Summer

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Casino		68.24 trips/1000 sq. ft.	100.75	6,875.18
			Sum of Total Trips	6,875.18
			Total Vehicle Miles Traveled	186,787.64

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	54.90	1.30	98.40	0.30
Light Truck < 3,750 lbs	15.10	2.60	95.40	2.00
Light Truck 3,751- 5,750	16.10	1.20	98.10	0.70
Med Truck 5,751- 8,500	7.30	1.40	95.90	2.70
Lite-Heavy 8,501-10,000	1.10	0.00	81.80	18.20
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	1.00	0.00	20.00	80.00
Heavy-Heavy 33,001-60,000	0.90	0.00	11.10	88.90
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.60	75.00	25.00	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	1.40	7.10	85.70	7.20

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	10.8	7.3	7.5	9.5	7.4	7.4
Rural Trip Length (miles)	28.0	28.0	28.0	28.0	28.0	28.0
Trip Speeds (mph)	35.0	35.0	35.0	55.0	55.0	55.0
% of Trips - Residential	32.9	18.0	49.1			
% of Trips - Commercial (by land use)						
Casino				5.0	2.5	92.5

Changes made to the default values for Land Use Trip Percentages

The Primary Trip % for Racquet club changed from 50 to 97
The Diverted Trip % for Racquet club changed from 40 to 0
The Pass-By Trip % for Racquet club changed from 10 to 3

Changes made to the default values for Area

Changes made to the default values for Operations

The pass by trips option switch changed from off to on.
The operational emission year changed from 2005 to 2009.
The home based work selection item changed from 8 to 7.
The home based work rural trip length changed from 16.8 to 28.
The home based shopping selection item changed from 8 to 7.
The home based shopping rural trip length changed from 7.1 to 28.
The home based other selection item changed from 8 to 7.
The home based other rural trip length changed from 7.9 to 28.
The commercial based commute trip speed changed from 35 to 55.
The commercial based commute selection item changed from 8 to 11.
The commercial based commute rural trip length changed from 14.7 to 28.
The commercial based non-work trip speed changed from 35 to 55.
The commercial based non-work selection item changed from 8 to 11.
The commercial based non-work rural trip length changed from 6.6 to 28.
The commercial based customer trip speed changed from 35 to 55.
The commercial based customer selection item changed from 8 to 11.
The commercial based customer rural trip length changed from 6.6 to 28.

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\Ione\Alt B - Ione - Phase II Construc
 Project Name: Alt B - Ione - Phase I Operation Phase II Construction
 Project Location: Mountain Counties and Rural Counties
 On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
 (Pounds/Day - Summer)

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2009 ***							
TOTALS (lbs/day, unmitigated)	20.19	127.34	167.23	0.00	31.64	4.61	27.03
TOTALS (lbs/day, mitigated)	2.09	76.42	19.19	0.00	13.19	0.69	12.50
*** 2010 ***							
TOTALS (lbs/day, unmitigated)	116.52	229.53	219.77	0.21	7.11	6.89	0.22
TOTALS (lbs/day, mitigated)	90.76	137.75	23.68	0.21	1.26	1.04	0.22

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day, unmitigated)	0.92	1.30	1.87	0.00	0.01

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day, unmitigated)	111.50	298.44	1,832.94	1.57	282.47

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day, unmitigated)	112.43	299.74	1,834.80	1.57	282.48

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\Ione\Alt B - Ione - Phase II Construc
 Project Name: Alt B - Ione - Phase I Operation Phase II Construction
 Project Location: Mountain Counties and Rural Counties
 On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
 (Tons/Year)

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2009 ***							
TOTALS (tpy, unmitigated)	1.51	9.54	12.55	0.00	0.74	0.35	0.39
TOTALS (tpy, mitigated)	0.16	5.73	1.37	0.00	0.23	0.05	0.18
*** 2010 ***							
TOTALS (tpy, unmitigated)	2.15	7.37	9.61	0.00	0.24	0.24	0.00
TOTALS (tpy, mitigated)	1.10	4.42	1.02	0.00	0.03	0.03	0.00

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	0.12	0.24	0.27	0.00	0.00

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	22.62	57.84	356.22	0.29	51.55

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	22.75	58.08	356.48	0.29	51.55

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\Ione\Alt B - Ione - Phase II Construc
 Project Name: Alt B - Ione - Phase I Operation Phase II Construction
 Project Location: Mountain Counties and Rural Counties
 On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Summer)

Construction Start Month and Year: June, 2009
 Construction Duration: 12
 Total Land Use Area to be Developed: 10.8 acres
 Maximum Acreage Disturbed Per Day: 2.7 acres
 Single Family Units: 0 Multi-Family Units: 0
 Retail/Office/Institutional/Industrial Square Footage: 50375

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2009***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	27.00	-	27.00
Off-Road Diesel	17.01	108.40	139.96	-	3.93	3.93	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.19	0.48	5.19	0.00	0.04	0.01	0.03
Maximum lbs/day	17.20	108.88	145.15	0.00	30.97	3.94	27.03
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	20.11	127.28	166.15	-	4.61	4.61	0.00
Bldg Const Worker Trips	0.08	0.05	1.08	0.00	0.04	0.00	0.04
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	20.19	127.34	167.23	0.00	4.65	4.61	0.04
Max lbs/day all phases	20.19	127.34	167.23	0.00	31.64	4.61	27.03
*** 2010***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	20.11	123.50	168.50	-	4.24	4.24	0.00
Bldg Const Worker Trips	0.07	0.05	1.00	0.00	0.04	0.00	0.04
Arch Coatings Off-Gas	77.02	-	-	-	-	-	-
Arch Coatings Worker Trips	0.07	0.04	0.84	0.00	0.04	0.00	0.04
Asphalt Off-Gas	10.72	-	-	-	-	-	-
Asphalt Off-Road Diesel	3.78	22.67	31.85	-	0.71	0.71	0.00
Asphalt On-Road Diesel	4.73	83.27	17.53	0.21	2.07	1.94	0.13
Asphalt Worker Trips	0.02	0.01	0.21	0.00	0.01	0.00	0.01
Maximum lbs/day	116.52	229.53	219.77	0.21	7.11	6.89	0.22
Max lbs/day all phases	116.52	229.53	219.77	0.21	7.11	6.89	0.22

Phase 1 - Demolition Assumptions: Phase Turned OFF

Phase 2 - Site Grading Assumptions
Start Month/Year for Phase 2: Jun '09
Phase 2 Duration: 1.3 months
On-Road Truck Travel (VMT): 0
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Excavators	180	0.580	8.0
1	Graders	174	0.575	8.0
1	Off Highway Trucks	417	0.490	8.0
2	Other Equipment	190	0.620	8.0
1	Rubber Tired Dozers	352	0.590	8.0
1	Rubber Tired Loaders	165	0.465	8.0
1	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions
Start Month/Year for Phase 3: Jul '09
Phase 3 Duration: 10.7 months
Start Month/Year for SubPhase Building: Jul '09
SubPhase Building Duration: 10.7 months
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Cranes	190	0.430	8.0
1	Excavators	180	0.580	8.0
1	Graders	174	0.575	8.0
1	Rough Terrain Forklifts	94	0.475	8.0
1	Rubber Tired Dozers	352	0.590	8.0
1	Rubber Tired Loaders	165	0.465	8.0
1	Scrapers	313	0.660	8.0
1	Skid Steer Loaders	62	0.515	8.0
1	Surfacing Equipment	437	0.490	8.0
2	Tractor/Loaders/Backhoes	79	0.465	8.0

Start Month/Year for SubPhase Architectural Coatings: Apr '10
SubPhase Architectural Coatings Duration: 1.1 months
Start Month/Year for SubPhase Asphalt: May '10
SubPhase Asphalt Duration: 0.5 months
Acres to be Paved: 45

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Pavers	132	0.590	8.0
1	Paving Equipment	111	0.530	8.0

CONSTRUCTION EMISSION ESTIMATES MITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2009***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	12.47	-	12.47
Off-Road Diesel	1.70	65.04	14.00	-	0.59	0.59	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.19	0.48	5.19	0.00	0.04	0.01	0.03
Maximum lbs/day	1.89	65.52	19.19	0.00	13.10	0.60	12.50
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	2.01	76.37	16.62	-	0.69	0.69	0.00
Bldg Const Worker Trips	0.08	0.05	1.08	0.00	0.04	0.00	0.04
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	2.09	76.42	17.70	0.00	0.73	0.69	0.04
Max lbs/day all phases	2.09	76.42	19.19	0.00	13.19	0.69	12.50

*** 2010***
Phase 1 - Demolition Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 2 - Site Grading Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	2.01	74.10	16.85	-	0.64	0.64	0.00
Bldg Const Worker Trips	0.07	0.05	1.00	0.00	0.04	0.00	0.04
Arch Coatings Off-Gas	77.02	-	-	-	-	-	-
Arch Coatings Worker Trips	0.07	0.04	0.84	0.00	0.04	0.00	0.04
Asphalt Off-Gas	10.72	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.38	13.60	3.19	-	0.11	0.11	0.00
Asphalt On-Road Diesel	0.47	49.96	1.75	0.21	0.42	0.29	0.13
Asphalt Worker Trips	0.02	0.01	0.21	0.00	0.01	0.00	0.01
Maximum lbs/day	90.76	137.75	23.68	0.21	1.26	1.04	0.22
Max lbs/day all phases	90.76	137.75	23.68	0.21	1.26	1.04	0.22

Construction-Related Mitigation Measures

- Phase 2: Soil Disturbance: Water exposed surfaces - 2x daily
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 34.0%)
- Phase 2: Off-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR)
Percent Reduction(ROG 90.0% NOx 40.0% CO 90.0% SO2 0.0% PM10 85.0%)
- Phase 2: On-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR)
Percent Reduction(ROG 90.0% NOx 40.0% CO 90.0% SO2 0.0% PM10 85.0%)
- Phase 2: Unpaved Roads: Water all haul roads 2x daily
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 30.0%)
- Phase 3: Off-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR)
Percent Reduction(ROG 90.0% NOx 40.0% CO 90.0% SO2 0.0% PM10 85.0%)
- Phase 3: Off-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR)
Percent Reduction(ROG 90.0% NOx 40.0% CO 90.0% SO2 0.0% PM10 85.0%)
- Phase 3: On-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR)
Percent Reduction(ROG 90.0% NOx 40.0% CO 90.0% SO2 0.0% PM10 85.0%)
- Phase 1 - Demolition Assumptions: Phase Turned OFF

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jun '09
Phase 2 Duration: 1.3 months
On-Road Truck Travel (VMT): 0
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Excavators	180	0.580	8.0
1	Graders	174	0.575	8.0
1	Off Highway Trucks	417	0.490	8.0
2	Other Equipment	190	0.620	8.0
1	Rubber Tired Dozers	352	0.590	8.0
1	Rubber Tired Loaders	165	0.465	8.0
1	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Jul '09
Phase 3 Duration: 10.7 months
Start Month/Year for SubPhase Building: Jul '09
SubPhase Building Duration: 10.7 months
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Cranes	190	0.430	8.0
1	Excavators	180	0.580	8.0
1	Graders	174	0.575	8.0
1	Rough Terrain Forklifts	94	0.475	8.0
1	Rubber Tired Dozers	352	0.590	8.0
1	Rubber Tired Loaders	165	0.465	8.0
1	Scrapers	313	0.660	8.0
1	Skid Steer Loaders	62	0.515	8.0
1	Surfacing Equipment	437	0.490	8.0
2	Tractor/Loaders/Backhoes	79	0.465	8.0

Start Month/Year for SubPhase Architectural Coatings: Apr '10

SubPhase Architectural Coatings Duration: 1.1 months
Start Month/Year for SubPhase Asphalt: May '10
SubPhase Asphalt Duration: 0.5 months
Acres to be Paved: 45
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Pavers	132	0.590	8.0
1	Paving Equipment	111	0.530	8.0

AREA SOURCE EMISSION ESTIMATES (Summer Pounds per Day, Unmitigated)					
Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.09	1.29	1.09	0	0.00
Hearth - No summer emissions					
Landscaping	0.12	0.00	0.78	0.00	0.00
Consumer Prdcts	0.00	-	-	-	-
Architectural Coatings	0.71	-	-	-	-
TOTALS(lbs/day, unmitigated)	0.92	1.30	1.87	0.00	0.01

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Hotel	111.50	298.44	1,832.94	1.57	282.47
TOTAL EMISSIONS (lbs/day)	111.50	298.44	1,832.94	1.57	282.47

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

OPERATIONAL (Vehicle) EMISSION ESTIMATES

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

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Hotel		68.24 trips/rooms	100.75	6,875.18
			Sum of Total Trips	6,875.18
			Total Vehicle Miles Traveled	186,787.64

Vehicle Assumptions:

Fleet Mix:

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

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	10.8	7.3	7.5	9.5	7.4	7.4
Rural Trip Length (miles)	28.0	28.0	28.0	28.0	28.0	28.0
Trip Speeds (mph)	35.0	35.0	35.0	55.0	55.0	55.0
% of Trips - Residential	32.9	18.0	49.1			
% of Trips - Commercial (by land use)						
Hotel				5.0	2.5	92.5

Changes made to the default values for Land Use Trip Percentages

The Diverted Trip % for University/college (4 yrs) changed from 10 to 0
The Pass-By Trip % for University/college (4 yrs) changed from 0 to 10
The Primary Trip % for Racquet club changed from 50 to 97
The Diverted Trip % for Racquet club changed from 40 to 0
The Pass-By Trip % for Racquet club changed from 10 to 3
The Primary Trip % for Hotel changed from 60 to 97
The Diverted Trip % for Hotel changed from 35 to 0
The Pass-By Trip % for Hotel changed from 5 to 3

Changes made to the default values for Construction

Phase 2 mitigation measure Soil Disturbance: Water exposed surfaces - 2x daily
has been changed from off to on.
Phase 2 mitigation measure Off-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR)
has been changed from off to on.
Phase 2 mitigation measure On-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR)
has been changed from off to on.
Phase 2 mitigation measure Unpaved Roads: Water all haul roads 2x daily
has been changed from off to on.
Phase 3 mitigation measure Off-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR)
has been changed from off to on.
Phase 3 mitigation measure Off-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR)
has been changed from off to on.
Phase 3 mitigation measure On-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR)
has been changed from off to on.

Changes made to the default values for Area

Changes made to the default values for Operations

The pass by trips option switch changed from off to on.
The operational emission year changed from 2005 to 2010.
The home based work selection item changed from 8 to 7.
The home based work rural trip length changed from 16.8 to 28.
The home based shopping selection item changed from 8 to 7.
The home based shopping rural trip length changed from 7.1 to 28.
The home based other selection item changed from 8 to 7.
The home based other rural trip length changed from 7.9 to 28.
The commercial based commute trip speed changed from 35 to 55.
The commercial based commute selection item changed from 8 to 11.
The commercial based commute rural trip length changed from 14.7 to 28.
The commercial based non-work trip speed changed from 35 to 55.
The commercial based non-work selection item changed from 8 to 11.
The commercial based non-work rural trip length changed from 6.6 to 28.
The commercial based customer trip speed changed from 35 to 55.
The commercial based customer selection item changed from 8 to 11.
The commercial based customer rural trip length changed from 6.6 to 28.

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\Ione\Alt B - Ione - Phase I & II Ope:
Project Name: Alt B - Ione - Phase I & II Operations
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Summer)

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day, unmitigated)	5.47	5.26	6.75	0.00	0.02

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day, unmitigated)	169.77	446.18	2,742.02	2.35	422.05

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day, unmitigated)	175.23	451.44	2,748.77	2.35	422.07

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\Ione\Alt B - Ione - Phase I & II Ope:
Project Name: Alt B - Ione - Phase I & II Operations
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Tons/Year)

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	0.73	0.96	1.02	0.00	0.00

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	34.30	86.48	532.95	0.43	77.02

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	35.02	87.44	533.96	0.43	77.03

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\Ione\Alt B - Ione - Phase I & II Ope
Project Name: Alt B - Ione - Phase I & II Operations
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Summer)

AREA SOURCE EMISSION ESTIMATES (Summer Pounds per Day, Unmitigated)					
Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.38	5.25	4.41	0	0.01
Hearth - No summer emissions					
Landscaping	0.37	0.01	2.34	0.00	0.01
Consumer Prdcts	0.00	-	-	-	-
Architectural Coatings	4.71	-	-	-	-
TOTALS (lbs/day, unmitigated)	5.47	5.26	6.75	0.00	0.02

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Event and Convention Cent	45.82	115.39	710.46	0.61	108.96
Casino	111.50	298.44	1,832.94	1.57	282.47
Hotel	12.45	32.34	198.62	0.17	30.61
TOTAL EMISSIONS (lbs/day)	169.77	446.18	2,742.02	2.35	422.05

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

OPERATIONAL (Vehicle) EMISSION ESTIMATES

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

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreeage	Trip Rate	No. Units	Total Trips
Event and Convention Cent		2.38 trips/students	1,200.00	2,856.00
Casino		68.24 trips/1000 sq. ft.	100.75	6,875.18
Hotel		2.98 trips/rooms	250.00	745.00
Sum of Total Trips			10,476.18	
Total Vehicle Miles Traveled			279,079.27	

Vehicle Assumptions:

Fleet Mix:

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

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	10.8	7.3	7.5	9.5	7.4	7.4
Rural Trip Length (miles)	28.0	28.0	28.0	28.0	28.0	28.0
Trip Speeds (mph)	35.0	35.0	35.0	55.0	55.0	55.0
% of Trips - Residential	32.9	18.0	49.1			
% of Trips - Commercial (by land use)						
Event and Convention Center				5.0	2.5	92.5
Casino				5.0	2.5	92.5
Hotel				5.0	2.5	92.5

Changes made to the default values for Land Use Trip Percentages

The Diverted Trip % for University/college (4 yrs) changed from 10 to 0
The Pass-By Trip % for University/college (4 yrs) changed from 0 to 10
The Primary Trip % for Racquet club changed from 50 to 97
The Diverted Trip % for Racquet club changed from 40 to 0
The Pass-By Trip % for Racquet club changed from 10 to 3
The Primary Trip % for Hotel changed from 60 to 97
The Diverted Trip % for Hotel changed from 35 to 0
The Pass-By Trip % for Hotel changed from 5 to 3

Changes made to the default values for Area

Changes made to the default values for Operations

The pass by trips option switch changed from off to on.
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The home based shopping selection item changed from 8 to 7.
The home based shopping rural trip length changed from 7.1 to 28.
The home based other selection item changed from 8 to 7.
The home based other rural trip length changed from 7.9 to 28.
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The commercial based commute selection item changed from 8 to 11.
The commercial based commute rural trip length changed from 14.7 to 28.
The commercial based non-work trip speed changed from 35 to 55.
The commercial based non-work selection item changed from 8 to 11.
The commercial based non-work rural trip length changed from 6.6 to 28.
The commercial based customer trip speed changed from 35 to 55.
The commercial based customer selection item changed from 8 to 11.
The commercial based customer rural trip length changed from 6.6 to 28.

ALTERNATIVE C

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\Ione\Alt C - Ione - Phase I.urb
 Project Name: Alt C - Ione - Phase I
 Project Location: Mountain Counties and Rural Counties
 On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
 (Pounds/Day - Summer)

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2008 ***							
TOTALS (lbs/day,unmitigated)	44.09	277.05	373.33	0.10	26.62	9.99	16.63

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2009 ***							
TOTALS (lbs/day,unmitigated)	146.60	79.87	110.21	0.00	2.82	2.66	0.16

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	1.29	0.77	1.42	0.00	0.00

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	105.64	282.45	1,722.00	1.24	222.44

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	106.94	283.22	1,723.43	1.24	222.45

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\Ione\Alt C - Ione - Phase I.urb
 Project Name: Alt C - Ione - Phase I
 Project Location: Mountain Counties and Rural Counties
 On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
 (Tons/Year)

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2008 ***							
TOTALS (tpy, unmitigated)	0.99	6.54	8.19	0.00	0.46	0.23	0.23

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2009 ***							
TOTALS (tpy, unmitigated)	1.81	2.06	2.88	0.00	0.07	0.07	0.00

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	0.17	0.14	0.19	0.00	0.00

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	21.41	54.74	334.98	0.23	40.60

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	21.58	54.88	335.16	0.23	40.60

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\Ione\Alt C - Ione - Phase I.urb
 Project Name: Alt C - Ione - Phase I
 Project Location: Mountain Counties and Rural Counties
 On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Summer)

Construction Start Month and Year: June, 2008
 Construction Duration: 12
 Total Land Use Area to be Developed: 3.6 acres
 Maximum Acreage Disturbed Per Day: 0.9 acres
 Single Family Units: 0 Multi-Family Units: 0
 Retail/Office/Institutional/Industrial Square Footage: 79250

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2008***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	16.38	-	16.38
Off-Road Diesel	11.44	81.04	88.83	-	3.34	3.34	0.00
On-Road Diesel	1.95	67.21	8.63	0.10	1.05	0.82	0.23
Worker Trips	0.09	0.30	3.04	0.00	0.03	0.01	0.02
Maximum lbs/day	13.48	148.55	100.50	0.10	20.80	4.17	16.63
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	9.00	-	9.00
Off-Road Diesel	43.63	275.88	360.82	-	9.96	9.96	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.46	1.17	12.51	0.01	0.09	0.03	0.06
Maximum lbs/day	44.09	277.05	373.33	0.01	19.05	9.99	9.06
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	5.31	33.47	43.67	-	1.15	1.15	0.00
Bldg Const Worker Trips	0.14	0.09	1.85	0.00	0.07	0.00	0.07
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	5.45	33.56	45.52	0.00	1.22	1.15	0.07
Max lbs/day all phases	44.09	277.05	373.33	0.10	26.62	9.99	16.63
*** 2009***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	5.31	32.64	44.15	-	1.07	1.07	0.00
Bldg Const Worker Trips	0.13	0.08	1.70	0.00	0.07	0.00	0.07
Arch Coatings Off-Gas	133.28	-	-	-	-	-	-
Arch Coatings Worker Trips	0.12	0.07	1.44	0.00	0.07	0.00	0.07
Asphalt Off-Gas	0.21	-	-	-	-	-	-
Asphalt Off-Road Diesel	7.42	45.18	62.51	-	1.54	1.54	0.00
Asphalt On-Road Diesel	0.10	1.89	0.38	0.00	0.04	0.04	0.00
Asphalt Worker Trips	0.02	0.01	0.28	0.00	0.01	0.00	0.01
Maximum lbs/day	146.60	79.87	110.21	0.00	2.82	2.66	0.16
Max lbs/day all phases	146.60	79.87	110.21	0.00	2.82	2.66	0.16

Phase 1 - Demolition Assumptions

Start Month/Year for Phase 1: Jun '08

Phase 1 Duration: 0.6 months

Building Volume Total (cubic feet): 390000

Building Volume Daily (cubic feet): 39000

On-Road Truck Travel (VMT): 2166

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Crushing/Processing Equip	154	0.780	8.0
2	Rubber Tired Dozers	352	0.590	8.0
1	Rubber Tired Loaders	165	0.465	8.0
1	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jun '08

Phase 2 Duration: 1.2 months

On-Road Truck Travel (VMT): 0

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
3	Excavators	180	0.580	8.0
3	Graders	174	0.575	8.0
5	Off Highway Trucks	417	0.490	8.0
2	Other Equipment	190	0.620	8.0
2	Rubber Tired Dozers	352	0.590	8.0
2	Rubber Tired Loaders	165	0.465	8.0
1	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Jul '08

Phase 3 Duration: 10.2 months

Start Month/Year for SubPhase Building: Jul '08

SubPhase Building Duration: 10.2 months

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Concrete/Industrial saws	84	0.730	8.0
1	Cranes	190	0.430	8.0
1	Rough Terrain Forklifts	94	0.475	8.0
1	Rubber Tired Loaders	165	0.465	8.0
1	Tractor/Loaders/Backhoes	79	0.465	8.0

Start Month/Year for SubPhase Architectural Coatings: May '09

SubPhase Architectural Coatings Duration: 1 months

Start Month/Year for SubPhase Asphalt: May '09

SubPhase Asphalt Duration: 0.5 months

Acres to be Paved: 0.9

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Pavers	132	0.590	8.0
1	Paving Equipment	111	0.530	8.0
1	Scrapers	313	0.660	8.0

AREA SOURCE EMISSION ESTIMATES (Summer Pounds per Day, Unmitigated)					
Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.06	0.77	0.64	0	0.00
Hearth - No summer emissions					
Landscaping	0.12	0.00	0.78	0.00	0.00
Consumer Prdcts	0.00	-	-	-	-
Architectural Coatings	1.11	-	-	-	-
TOTALS(lbs/day,unmitigated)	1.29	0.77	1.42	0.00	0.00

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Casino	105.64	282.45	1,722.00	1.24	222.44
TOTAL EMISSIONS (lbs/day)	105.64	282.45	1,722.00	1.24	222.44

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

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2008 Temperature (F): 60 Season: Summer

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreeage	Trip Rate	No. Units	Total Trips
Casino		68.24 trips/1000 sq. ft.	79.25	5,408.02
Sum of Total Trips				5,408.02
Total Vehicle Miles Traveled				146,927.25

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	55.00	1.60	98.00	0.40
Light Truck < 3,750 lbs	15.00	2.70	95.30	2.00
Light Truck 3,751- 5,750	16.20	1.20	97.50	1.30
Med Truck 5,751- 8,500	7.20	1.40	95.80	2.80
Lite-Heavy 8,501-10,000	1.10	0.00	81.80	18.20
Lite-Heavy 10,001-14,000	0.40	0.00	50.00	50.00
Med-Heavy 14,001-33,000	1.00	0.00	20.00	80.00
Heavy-Heavy 33,001-60,000	0.90	0.00	11.10	88.90
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.70	76.50	23.50	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	1.20	8.30	83.30	8.40

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	10.8	7.3	7.5	9.5	7.4	7.4
Rural Trip Length (miles)	28.0	28.0	28.0	28.0	28.0	28.0
Trip Speeds (mph)	35.0	35.0	35.0	55.0	55.0	55.0
% of Trips - Residential	32.9	18.0	49.1			
% of Trips - Commercial (by land use)						
Casino				5.0	2.5	92.5

Changes made to the default values for Land Use Trip Percentages

The Primary Trip % for Racquet club changed from 50 to 97
The Diverted Trip % for Racquet club changed from 40 to 0
The Pass-By Trip % for Racquet club changed from 10 to 3

Changes made to the default values for Construction

Changes made to the default values for Area

Changes made to the default values for Operations

The pass by trips option switch changed from off to on.
The operational emission year changed from 2005 to 2008.
The home based work selection item changed from 8 to 7.
The home based work rural trip length changed from 16.8 to 28.
The home based shopping selection item changed from 8 to 7.
The home based shopping rural trip length changed from 7.1 to 28.
The home based other selection item changed from 8 to 7.
The home based other rural trip length changed from 7.9 to 28.
The commercial based commute trip speed changed from 35 to 55.
The commercial based commute selection item changed from 8 to 11.
The commercial based commute rural trip length changed from 14.7 to 28.
The commercial based non-work trip speed changed from 35 to 55.
The commercial based non-work selection item changed from 8 to 11.
The commercial based non-work rural trip length changed from 6.6 to 28.
The commercial based customer trip speed changed from 35 to 55.
The commercial based customer selection item changed from 8 to 11.
The commercial based customer rural trip length changed from 6.6 to 28.

ALTERNATIVE D

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\Ione\Alt D - Ione - Phase I.urb
 Project Name: Alt D - Ione - Phase I
 Project Location: Mountain Counties and Rural Counties
 On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
 (Pounds/Day - Summer)

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2008 ***							
TOTALS (lbs/day,unmitigated)	15.85	148.55	131.22	0.10	27.19	4.17	23.02
*** 2009 ***							
TOTALS (lbs/day,unmitigated)	220.73	79.93	111.81	0.00	2.88	2.66	0.22

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	1.94	1.20	1.78	0.00	0.00

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	79.03	184.56	1,142.14	0.80	143.28

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	80.96	185.76	1,143.92	0.80	143.28

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\Ione\Alt D - Ione - Phase I.urb
Project Name: Alt D - Ione - Phase I
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Tons/Year)

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2008 *** TOTALS (tpy, unmitigated)	0.61	4.28	5.05	0.00	0.57	0.15	0.42

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2009 *** TOTALS (tpy, unmitigated)	2.62	2.07	2.93	0.00	0.08	0.07	0.01

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	0.26	0.22	0.25	0.00	0.00

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	16.26	35.76	222.81	0.15	26.15

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	16.52	35.98	223.06	0.15	26.15

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\Ione\Alt D - Ione - Phase I.urb
 Project Name: Alt D - Ione - Phase I
 Project Location: Mountain Counties and Rural Counties
 On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Summer)

Construction Start Month and Year: June, 2008
 Construction Duration: 12
 Total Land Use Area to be Developed: 9.3 acres
 Maximum Acreage Disturbed Per Day: 2.3 acres
 Single Family Units: 0 Multi-Family Units: 0
 Retail/Office/Institutional/Industrial Square Footage: 123250

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2008***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	16.38	-	16.38
Off-Road Diesel	11.44	81.04	88.83	-	3.34	3.34	0.00
On-Road Diesel	1.95	67.21	8.63	0.10	1.05	0.82	0.23
Worker Trips	0.09	0.30	3.04	0.00	0.03	0.01	0.02
Maximum lbs/day	13.48	148.55	100.50	0.10	20.80	4.17	16.63
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	23.00	-	23.00
Off-Road Diesel	15.66	104.37	126.10	-	4.04	4.04	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.19	0.48	5.12	0.00	0.03	0.01	0.02
Maximum lbs/day	15.85	104.85	131.22	0.00	27.07	4.05	23.02
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	5.31	33.47	43.67	-	1.15	1.15	0.00
Bldg Const Worker Trips	0.22	0.14	2.87	0.00	0.10	0.00	0.10
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	5.53	33.61	46.54	0.00	1.25	1.15	0.10
Max lbs/day all phases	15.85	148.55	131.22	0.10	27.19	4.17	23.02
*** 2009***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	5.31	32.64	44.15	-	1.07	1.07	0.00
Bldg Const Worker Trips	0.20	0.12	2.65	0.00	0.10	0.00	0.10
Arch Coatings Off-Gas	207.28	-	-	-	-	-	-
Arch Coatings Worker Trips	0.19	0.10	2.24	0.00	0.10	0.00	0.10
Asphalt Off-Gas	0.21	-	-	-	-	-	-
Asphalt Off-Road Diesel	7.42	45.18	62.51	-	1.54	1.54	0.00
Asphalt On-Road Diesel	0.10	1.89	0.38	0.00	0.04	0.04	0.00
Asphalt Worker Trips	0.02	0.01	0.28	0.00	0.01	0.00	0.01
Maximum lbs/day	220.73	79.93	111.81	0.00	2.88	2.66	0.22
Max lbs/day all phases	220.73	79.93	111.81	0.00	2.88	2.66	0.22

Phase 1 - Demolition Assumptions
Start Month/Year for Phase 1: Jun '08
Phase 1 Duration: 0.6 months
Building Volume Total (cubic feet): 390000
Building Volume Daily (cubic feet): 39000
On-Road Truck Travel (VMT): 2166
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Crushing/Processing Equip	154	0.780	8.0
2	Rubber Tired Dozers	352	0.590	8.0
1	Rubber Tired Loaders	165	0.465	8.0
1	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 2 - Site Grading Assumptions
Start Month/Year for Phase 2: Jun '08
Phase 2 Duration: 1.2 months
On-Road Truck Travel (VMT): 0
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Excavators	180	0.580	8.0
1	Graders	174	0.575	8.0
1	Off Highway Trucks	417	0.490	8.0
2	Other Equipment	190	0.620	8.0
1	Rubber Tired Dozers	352	0.590	8.0
1	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions
Start Month/Year for Phase 3: Jul '08
Phase 3 Duration: 10.2 months
Start Month/Year for SubPhase Building: Jul '08
SubPhase Building Duration: 10.2 months
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Concrete/Industrial saws	84	0.730	8.0
1	Cranes	190	0.430	8.0
1	Rough Terrain Forklifts	94	0.475	8.0
1	Rubber Tired Loaders	165	0.465	8.0
1	Tractor/Loaders/Backhoes	79	0.465	8.0

Start Month/Year for SubPhase Architectural Coatings: May '09
SubPhase Architectural Coatings Duration: 1 months
Start Month/Year for SubPhase Asphalt: May '09
SubPhase Asphalt Duration: 0.5 months
Acres to be Paved: 0.9
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Pavers	132	0.590	8.0
1	Paving Equipment	111	0.530	8.0
1	Scrapers	313	0.660	8.0

AREA SOURCE EMISSION ESTIMATES (Summer Pounds per Day, Unmitigated)					
Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.09	1.19	1.00	0	0.00
Hearth - No summer emissions					
Landscaping	0.12	0.00	0.78	0.00	0.00
Consumer Prdcts	0.00	-	-	-	-
Architectural Coatings	1.73	-	-	-	-
TOTALS(lbs/day,unmitigated)	1.94	1.20	1.78	0.00	0.00

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Regnl shop. center	79.03	184.56	1,142.14	0.80	143.28
TOTAL EMISSIONS (lbs/day)	79.03	184.56	1,142.14	0.80	143.28

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

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2008 Temperature (F): 60 Season: Summer

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Regnl shop. center		42.94 trips/1000 sq. ft.	123.25	5,292.36
Sum of Total Trips				5,292.36
Total Vehicle Miles Traveled				94,616.72

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	55.00	1.60	98.00	0.40
Light Truck < 3,750 lbs	15.00	2.70	95.30	2.00
Light Truck 3,751- 5,750	16.20	1.20	97.50	1.30
Med Truck 5,751- 8,500	7.20	1.40	95.80	2.80
Lite-Heavy 8,501-10,000	1.10	0.00	81.80	18.20
Lite-Heavy 10,001-14,000	0.40	0.00	50.00	50.00
Med-Heavy 14,001-33,000	1.00	0.00	20.00	80.00
Heavy-Heavy 33,001-60,000	0.90	0.00	11.10	88.90
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.70	76.50	23.50	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	1.20	8.30	83.30	8.40

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	10.8	7.3	7.5	9.5	7.4	7.4
Rural Trip Length (miles)	28.0	28.0	28.0	28.0	28.0	28.0
Trip Speeds (mph)	35.0	35.0	35.0	55.0	55.0	55.0
% of Trips - Residential	32.9	18.0	49.1			
% of Trips - Commercial (by land use)						
Regnl shop. center				2.0	1.0	97.0

Changes made to the default values for Land Use Trip Percentages

The Primary Trip % for Racquet club changed from 50 to 97
The Diverted Trip % for Racquet club changed from 40 to 0
The Pass-By Trip % for Racquet club changed from 10 to 3

Changes made to the default values for Construction

Changes made to the default values for Area

Changes made to the default values for Operations

The pass by trips option switch changed from off to on.
The operational emission year changed from 2005 to 2008.
The home based work selection item changed from 8 to 7.
The home based work rural trip length changed from 16.8 to 28.
The home based shopping selection item changed from 8 to 7.
The home based shopping rural trip length changed from 7.1 to 28.
The home based other selection item changed from 8 to 7.
The home based other rural trip length changed from 7.9 to 28.
The commercial based commute trip speed changed from 35 to 55.
The commercial based commute selection item changed from 8 to 11.
The commercial based commute rural trip length changed from 14.7 to 28.
The commercial based non-work trip speed changed from 35 to 55.
The commercial based non-work selection item changed from 8 to 11.
The commercial based non-work rural trip length changed from 6.6 to 28.
The commercial based customer trip speed changed from 35 to 55.
The commercial based customer selection item changed from 8 to 11.
The commercial based customer rural trip length changed from 6.6 to 28.

GREENHOUSE GASSES

Table 1
Estimation of GHG Emissions lone Casino/Hotel
Mobile Source

	Emission Factor	Miles Traveled	CO₂	CH₄	N₂O	Total CO₂e
	(CO₂/CH₄/N₂O)		Emissions	Emissions	Emissions	
	g/mile		miles/day	tons per year		
Alternative A	552.08/0.05/0.05	314,768	69,918	6	6	72,014
Alternative B	552.08/0.05/0.05	279,079	61,991	6	6	63,849
Alternative C	552.08/0.05/0.05	146,927	32,636	3	3	33,615
Alternative D	552.08/0.05/0.05	94,617	21,017	2	2	21,647

Area Source						
	Emission Factor	Estimated MMBtu Usage¹	CO₂	CH₄	N₂O	Total CO₂e
	(Kg of CO₂/CH₄/N₂O)		Emissions	Emissions	Emissions	
	MMBtu		MMBtu/day	tons per year		
Alternative A	52.78/0.0059/0.0001	60	3.491	0.00039	0.00001	3.501
Alternative B	52.78/0.0059/0.0001	55	3.200	0.00039	0.00001	3.210
Alternative C	52.78/0.0059/0.0001	40	2.327	0.00039	0.00000	2.337
Alternative D	52.78/0.0059/0.0001	40	2.327	0.00039	0.00000	2.337

Total Greenhouse Gas Emission (tons per year of CO₂e)	
Alternative A	72,018
Alternative B	63,852
Alternative C	33,617
Alternative D	21,649

¹ Estimated using 4.5Mw/day of energy usage, converted into natural gas equivalent 14,000 Btu/Kw.
Source: AES, 2007.

IONEGB

 * MOBILE6.2.03 (24-Sep-2003) *
 * Input file: C:\MODELS\AIR\IONEGB.IN (file 1, run 1). *

* #####
 * SUMMER COMMUTER

* File 1, Run 1, Scenario 1.
 * #####

M581 Warning:
 The user supplied freeway average speed of 55.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

User supplied gasoline sulfur content = 15.0 ppm.

User supplied gasoline sulfur content of 15.0 ppm requires an
 external file but none was provided.
 Sulfur content set to 30 ppm.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

Calendar Year: 2009
 Month: July
 Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 95.0 (F)
 Absolute Humidity: 75. grains/lb
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.4 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: No
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT
HDDV MC All Veh		<6000	>6000	(All)			
GVWR:	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3597	0.3800	0.1306		0.0360	0.0003	0.0019
0.0860 0.0055 1.0000							
Fuel Economy (mpg):	24.1	18.6	14.3	17.3	9.7	32.2	17.1
7.2 50.0 16.5							

Composite Emission Factors (g/mi):

Composite CO2 :	368.2	477.5	620.3	514.0	916.7	316.1	596.5
1418.6 177.4 552.08							
