Air Quality Emissions Calculations

ALTERNATIVE A

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URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\Ione\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	PMTCCTON	FCTTMATEC

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

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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 (Tons/Year)

CONSTRUCTION EMISSION ESTIMATES

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

URBEMIS 2002 For Windows 8.7.0

C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\Ione\Alt A - Ione - Phase I Construct File Name: Alt A - Ione - Phase I Construction Project Name:

Mountain Counties and Rural Counties Project Location: 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)

CONSTRUCTION EMISSION ESTIMA	TES UNMITT	GATED (IDS	/day)		DW1 O	Day 2.0	PM10
	ROG	NOx	co	S02	PM10 TOTAL	PM10 EXHAUST	DUST
Source *** 2008***	ROG	NOX	CO	502	TOTAL	EXHAUSI	DOST
Phase 1 - Demolition Emissio	m e						
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
	0.09	0.30	3.04	0.00	0.03	0.01	0.02
Worker Trips Maximum lbs/day	13.48	148.55	100.50	0.10	20.80	4.17	16.63
Maximum IDS/day	13.40	140.55	100.50	0.10	20.00	4.17	10.03
Phase 2 - Site Grading Emiss	ions						
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
MEXIMUM 1557 day	4						
Phase 3 - Building Construct	ion						
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 Emission	ons						
Fugitive Dust	-			_	0.00	.	0.00
	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 1bs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
m	_4		•				
Phase 2 - Site Grading Emiss	sions				0.00	_	0.00
Fugitive Dust	0.00	2 22	-	-	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 Construct	ion.						
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	-	-	-	0.10	-	-
Arch Coatings Worker Trips	0.19	0.10	2.18	0.00	0.10	0.00	0.10
Asphalt Off-Gas	10.72	-	2.10	-	0.10	-	0.10
Asphalt Off-Gas 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 1bs/day	242.02	245.26	221.49	0.21	7.87	7.53	0.34
- Lord Contract	2.2.02	2.3.20	~~	V-21	7.07	. , , , , ,	2.24
Max lbs/day all phases	242.02	245.26	221.49	0.21	7.87	7.53	0.34
<u>-</u>							

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 Load Factor Hours/Day No. туре Horsepower Crushing/Processing Equip Rubber Tired Dozers Rubber Tired Loaders 0.780 154 8.0 352 0.590 8.0 2 165 0.465 8.0 1 Tractor/Loaders/Backhoes 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 0.580 0.575 1 Excavators 180 8.0 1 Graders 174 8.0 Off Highway Trucks Other Equipment Rubber Tired Dozers 0.490 417 1 8.0 190 0.620 2 8.0 0.590 352 8.0 Rubber Tired Loaders 0.465 165 8.0 Tractor/Loaders/Backhoes 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 Туре Horsepower Load Factor Hours/Day 1 Cranes 190 0.430 8.0 1 Excavators 180 0.580 8.0 0.575 1 Graders 174 8.0 Rough Terrain Forklifts 94 0.475 8.0 Rubber Tired Dozers 352 0.590 8.0 Rubber Tired Loaders 165 0.465 8.0 Scrapers 313 0.660 8.0 Skid Steer Loaders 62 0.515 8.0 Surfacing Equipment 0.490 8.0 Tractor/Loaders/Backhoes 0.465 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 Pavers 132 0.590 8.0 Paving Equipment 1 111 0.530 8.0

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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 Construction

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URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\Ione\Alt A - Ione - Phase I Operation
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	S02	PM10
TOTALS (lbs/day,unmitigated)	145.95	391.06	2,397.02	1.88	336.63
SUM OF AREA AND OPERATIONAL EM	ISSION ESTI	MATES			
	ROG	NOx	CO	S02	PM10
TOTALS (lbs/day,unmitigated)	147.84	392.22	2,398.78	1.88	336.63

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URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\Ione\Alt A - Ione - Phase I Operation
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 TOTALS (tpy, unmitigated)	ROG 0.25	NOx 0.21	CO 0.25	SO2 0.00	PM10 0.00
OPERATIONAL (VEHICLE) EMISSION TOTALS (tpy, unmitigated)	ESTIMA ROG 29.61	ATES NOx 75.80	CO 4 66.18	SO2 0.34	PM10 61.43
SUM OF AREA AND OPERATIONAL EM TOTALS (tpy, unmitigated)	ISSION ROG 29.86	ESTIMATES NOx 76.01	CO 466.43	SO2 0.34	PM10 61.44

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URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\Ione\Alt A - Ione - Phase I Operation
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, Unmit	igated)	
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

Casino	ROG	NOx	CO	SO2	РМ10
	145.95	391.06	2,397.02	1.88	336.63
TOTAL PMISSIONS (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. Total Units Trips
Casino		68.24 trips/1000 sq. ft.	120.00 8,188.80
		Sum of Total Total Vehicle Miles Tra	

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 lb	s 15.10	2.60	95.40	2.00
Light Truck 3,751- 5,75	0 16.10	1.20	98.10	0.70
Med Truck 5,751-8,50	0 7.30	1.40	95.90	2.70
Lite-Heavy 8,501-10,00	0 1.10	0.00	81.80	18.20
Lite-Heavy 10,001-14,00	0 0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,00	0 1.00	0.00	20.00	80.00
Heavy-Heavy 33,001-60,00	0.90	0.00	11.10	88.90
Line Haul > 60,000 lb	s 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) 5.0 2.5 92.5 Casino

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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 non-work trip speed changed from 35 to 55.
The commercial based non-work trip speed changed from 8 to 11.
The commercial based non-work rural trip length 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 8 to 11.
The commercial based customer trip speed changed from 8 to 11.
The commercial based customer rural trip length changed from 8 to 11.
The commercial based customer rural trip length changed from 8 to 11.

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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:

On-Road Motor Vehicle Emissions

Mountain Counties and Rural Counties

Based on EMFAC2002 version 2.2

SUMMARY REPORT (Pounds/Day - Summer)

CONSTRUCTION EMISSION ESTIMATES					part o	Tr. 4 0	73.43 D
*** 2009 ***	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
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
					PM10	PM10	PM10
*** 2010 ***	ROG	NOx	CO	SO2	TOTAL	EXHAUST	DUST
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 (VEHTOLE) PALCOTON	ECMINAMEC						
OPERATIONAL (VEHICLE) EMISSION	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 EMI	SSION ESTI	MATES					
	ROG	NOx	CO	SO2	PM10		
TOTALS (lbs/day,unmitigated)	147.84	392.22	2,398.78	1.88	336.63		

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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:

On-Road Motor Vehicle Emissions

Mountain Counties and Rural Counties

Based on EMFAC2002 version 2.2

SUMMARY REPORT (Tons/Year)

CONSTRUCTION EMISSION ESTIMAT	ES						
					PM10	PM10	PM10
*** 2009 ***	ROG	NOx	co	\$02	TOTAL	EXHAUST	DUST
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
					PM10	PM10	PM10
*** 2010 ***	ROG	NOx	CO	S02	TOTAL	EXHAUST	DUST
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
tornus (op,, mrergaesa,	2.55	4	0.32	0.00	0.10	0.17	0.01
AREA SOURCE EMISSION ESTIMATE	ES .						
	ROG	NOx	CO	SO2	PM10		
TOTALS (tpy, unmitigated)	0.25	0.21	0.25	0.00	0.00		
OPERATIONAL (VEHICLE) EMISSIC							
	ROG	NOx	CO	S02	PM10		
TOTALS (tpy, unmitigated)	29.61	75.80	466.18	0.34	61.43		
SUM OF AREA AND OPERATIONAL E	EMISSION ES	STIMATES					
	ROG	NOx	CO	S02	PM10		
TOTALS (tpy, unmitigated)	29.86	76.01	466.43	0.34	61.44		

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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 1
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)

		,	2 /		PM10	PM10	PM10
Source	ROG	NOx	CO	SO2	TOTAL	EXHAUST	DUST
*** 2009***							
Phase 1 - Demolition Emission	ons						
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 Emiss	sions						
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 Construct	ion						
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 Emissic	ons						
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 Emiss	sions						
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 Construct	ion						
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	000	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

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.	Туре	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	7 9	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 Architect	ural Coatings: A	pr '10	
SubPha	se Architectural Coatings Duratio	on: 1.1 months		
Start :	Month/Year for SubPhase Asphalt:	May '10		
SubPha	se Asphalt Duration: 0.5 months			
Acres	to be Paved: 10			
Off-Ro	ad Equipment			
No.	Туре	Horsepower	Load Factor	Hours/Day

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

CONSTRUCTION	EMISSION	ESTIMATES	MITIGATED	(lbs/day)

CONSTRUCTION ENIESTON ESTIMA	IES LITTON	ED (IUS/U	ay,		PM10	PM10	PM10
Source	ROG	NOx	CO	SO2	TOTAL	EXHAUST	DUST
*** 2009***	ROG	NOX	CO	502	IOIAD	EMIMODI	DODI
Phase 1 - Demolition Emission	ns						
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 Emiss:	ions						
Fugitive Dust	-	-	-	_	1.39	-	1.39
Off-Road Diesel	1.57	62.68	12.70	-	0.62	0.62	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	1.74	63.11	17.37	0.00	2.04	0.63	1.41
Phase 3 - Building Construct:	ion						
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 1bs/day	12.93	83.90	105.82	0.00	3.33	3.23	0.10
Max lbs/day all phases	12.93	83.90	105.82	0.00	4.64	3.23	1.41
*** 2010***							
Phase 1 - Demolition Emissio	ns						
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
<u>*</u> -							

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Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emiss	sions						
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 Construct	ion						
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 1bs/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.	Туре	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.	Туре	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.	Туре	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, Unmi	tigated)	
Source	ROG	NOx	CO	S02	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

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UNMITIGATED OPERATIONAL EMISSIONS

Casino	ROG	NOx	CO	SO2	PM10
	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
		Com of makel	Merica (3 100 00

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	s 15.10	2.60	95.40	2.00
Light Truck 3,751- 5,756	0 16.10	1.20	98.10	0.70
Med Truck 5,751-8,500	0 7.30	1.40	95.90	2.70
Lite-Heavy 8,501-10,000	0 1.10	0.00	81.80	18.20
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,00	0 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	s 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

rraver condicions						
		Residentia.	L	Commercial		
	Home-	Home-	Home-			
	Work	Shop	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 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 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 selection item changed from 8 to 11.
The commercial based customer selection item changed from 8 to 11.

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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 Oper
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							
TOTALS (lbs/day,unmitigated)	ROG 5.75	NOx 5.45	CO 6.91	SO2 0.00	PM10 0.02		
OPERATIONAL (VEHICLE) EMISSION	ESTIMATES ROG	NOx	CO	S02	PM10		
TOTALS (1bs/day,unmitigated)	191.07	503.20	3,092.23	2.65	476.02		
SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES							
	ROG	NOx	CO	S02	PM10		
TOTALS (1bs/day.unmitigated)	196.82	508.65	3.099.14	2.65	476.04		

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URBEMIS 2002 For Windows 8.7.0

File Name:

Project Name:

Project Location:

On-Road Motor Vehicle Emissions

C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\Ione\Alt A - Ione - Phase I & II Operations

Mountain Counties and Rural Counties

Based on EMFAC2002 version 2.2

SUMMARY REPORT (Tons/Year)

AREA SOURCE EMISSION ESTIMATES TOTALS (tpy, unmitigated)	ROG 0.76	NOx 0.99	CO 1.04	SO2 0.00	РМ10 0.00
	ESTIMAT ROG 38.62	res Nox 97.53	CO 601.01	SO2 0.49	PM10 86.87
30.1 32 1 4.1.2.7 1-1.2	SSION E ROG 39.38	ESTIMATES NOx 98.52	CO 602.05	SO2 0.49	PM10 86.88

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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, Unmiti	gated)	
Source	ROG	NOx	CO	S02	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

Event and Convention Cent Casino Hotel	ROG 45.82 132.81 12.45	NOx 115.39 355.47 32.34	CO 710.46 2,183.15 198.62	SO2 0.61 1.88 0.17	PM10 108.96 336.45 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. Total Units 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 lb	s 15.20	2.00	96.00	2.00
Light Truck 3,751- 5,75	0 16.20	1.20	98.10	0.70
Med Truck 5,751-8,50	0 7.30	1.40	95.90	2.70
Lite-Heavy 8,501-10,00	0 1.10	0.00	81.80	18.20
Lite-Heavy 10,001-14,00	0 0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,00	0 1.00	0.00	20.00	80.00
Heavy-Heavy 33,001-60,00	0 0.90	0.00	11.10	88.90
Line Haul > 60,000 lb	s 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-	Home-	Home-			
	Work	Shop	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 (use)				
Event and Convention Cent	er			5.0	2.5	92.5
Casino				5.0	2.5	92.5
Hotel				5.0	2.5	92.5

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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 non-work trip speed changed from 35 to 55.
The commercial based non-work trip speed 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 trip speed changed from 8 to 11.
The commercial based customer trip speed changed from 8 to 11.
The commercial based customer rural trip length changed from 8 to 11.
The commercial based customer rural trip length changed from 8 to 11.

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URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\Tone\Alt A - Ione - Long-Term Phase :
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							
TOTALS (lbs/day,unmitigated)	ROG 5.75	NOx 5.45	CO 6.91	SO2 0.00	PM10 0.02		
OPERATIONAL (VEHICLE) EMISSION E	ESTIMATES ROG	NOx	CO	S02	PM10		
TOTALS (lbs/day,unmitigated)	64 .92	137.60	886.21	2.65	474.70		
SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES							
TOTALS (1bs/day,unmitigated)	ROG 70.67	NOx 143.05	CO 893.12	SO2 2.65	PM10 474.72		

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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 :
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 TOTALS (tpy, unmitigated)	ROG 0.76	NOx 0.99	CO 1.04	SO2 0.00	PM10 0.00
,	ESTIMA ROG 13.02	TES NOx 26.64	CO 169.98	SO2 0.48	PM10 86.63
	SSION ROG 13.79	ESTIMATES NOx 27.63	CO 171.02	SO2 0.48	PM10 86.64

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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 :
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, Unmit	igated)	
Source	ROG	NOx	CO	S02	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 (The /day unmitigated)	5 75	5 45	6 91	0.00	0.02

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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 Casino Hotel		68.24	trips/students trips/1000 sq. ft. trips/rooms	1,200.00 120.00 250.00	2,856.00 8,188.80 745.00

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			-	
3	53.50	0.00	100.00	0.00
Light Truck $< 3,750$ lb.	s 15.70	0.00	99.40	0.60
Light Truck 3,751- 5,75	0 16.50	0.00	100.00	0.00
Med Truck 5,751-8,50	0 7.50	0.00	98.70	1.30
Lite-Heavy 8,501-10,00	0 1.00	0.00	80.00	20.00
Lite-Heavy 10,001-14,00	0 0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,00	0.90	0.00	22.20	77.80
Heavy-Heavy 33,001-60,00	0.80	0.00	0.00	100.00
Line Haul > 60,000 lb.	s 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

Travel Conditions									
	F	Residentia	L		Commercial				
	Home-	Home- Home- Home-							
	Work	Shop	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 (Event and Convention Cent Casino Hotel	-	15e)		5.0 5.0 5.0	2.5 2.5 2.5	92.5 92.5 92.5			

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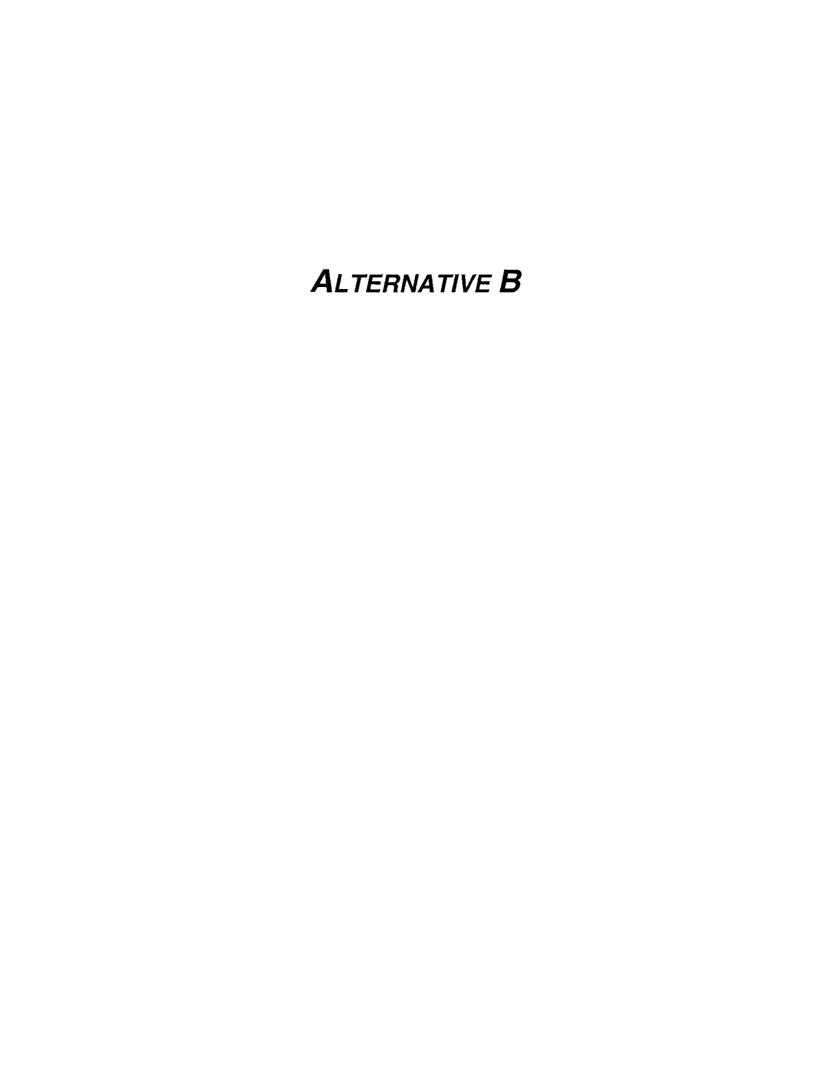
Changes made to the default values for Land Use Trip Percentages

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 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 8 to 11.
The commercial based customer trip speed changed from 35 to 55.
The commercial based customer trip speed changed from 8 to 11.
The commercial based customer trip speed changed from 8 to 11.
The commercial based customer rural trip length changed from 8 to 11.
The commercial based customer selection item changed from 8 to 11.



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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

SUMMARY REPORT (Pounds/Day - Summer)

CONSTRUCTION EMISSION ESTIMATES

*** 2008 *** TOTALS (1bs/day,unmitigated)	ROG 20.29	NOx 148.55	CO 166.05	SO2 0.10	PM10 TOTAL 21.58	PM10 EXHAUST 4.95	PM10 DUST 16.63
					PM10	₽M10	PM10
*** 2009 *** TOTALS (lbs/day.upmitigated)	ROG 209.59	NOx 245.23	CO 220 79	SO2 0 21	TOTAL 7.83	EXHAUST	DUST

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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 Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT (Tons/Year)

CONSTRUCTION EMISSION ESTIMATES

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

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URBEMIS 2002 For Windows 8.7.0

C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\Ione\Alt B - Ione - Phase I Construct File Name:

Project Name: Project Location: 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)

CONSTRUCTION EMISSION ESTIMA	CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)							
	200		~~		PM10	PM10	PM10	
Source *** 2008***	ROG	NOx	CO	S02	JATOT	EXHAUST	DUST	
Phase 1 - Demolition Emission	D.C.							
Fugitive Dust	-	_	_	_	16.38	_	16.38	
	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	1.95 0.09	0.30	3.04	0.00	0.03	0.01	0.02	
Worker Trips Maximum lbs/day	13.48	148.55	100.50	0.10	20.80	4.17	16.63	
						,	10.05	
Phase 2 - Site Grading Emiss	ions							
Fugitive Dust	-	-	-	-	14.00	-	14.00	
Off-Road Diesel On-Road Diesel Worker Trips Maximum lbs/day	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 Construct		121 20	162 70					
Bldg Const Off-Road Diesel	20.11	131.29	163.70	-	4.95	4.95	0.00	
Bldg Const Worker Trips Arch Coatings Off-Gas	0.18 0.00	0.11	2.35	0.00	0.08	0.00	0.08	
Arch Coatings Worker Trips		0.00	0.00	0.00	0.00	0.00	-	
Asphalt Off-Gas	0.00	0.00	0.00	0.00	0.00	0.00	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	
				0.00	3.03	1.75	0.00	
Max lbs/day all phases	20.29	148.55	166.05	0.10	21.58	4.95	16.63	
*** 2009***								
Phase 1 - Demolition Emission								
Fugitive Dust	-	-	-	_	0.00	_	0.00	
Off-Road Diesel	0.00	0.00	0.00		0.00	0.00	0.00	
On-Road Diesel 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	
Maximum IDS/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Phase 2 - Site Grading Emiss:	റ്റായ							
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 1bs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
_					0.00	0.00	0.00	
Phase 3 - Building Construct	ion							
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	
Bldg Const Worker Trips Arch Coatings Off-Gas Arch Coatings Worker Trips Asphalt Off-Gas	169.44	-	-	_	_	_	_	
Arch Coatings Worker Trips	0.16	0.08	1.83	0.00	0.08	0.00	0.08	
				_	-	-	-	
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	0.02 209.59	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 1bs/day all phases	209.59	245.23	220.79	0.21	5 00	9 50		
tion instant air busses	203.33	240-20	220.79	0.21	7.83	7.53	0.30	

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Off-Road Equipment

Туре

Pavers

Paving Equipment

No.

2

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. Туре Horsepower Load Factor Hours/Day Crushing/Processing Equip 0.780 154 8.0 2 Rubber Tired Dozers 352 0.590 8.0 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 Туре Load Factor No. Horsepower Hours/Dav Excavators 0.580 180 8.0 Graders 174 0.575 8.0 Off Highway Trucks 417 0.490 8.0 8.0 2 Other Equipment 190 0.620 Rubber Tired Dozers 352 0.590 8.0 1 Rubber Tired Loaders 165 0.465 8.0 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 Load Factor Horsepower Hours/Day 1 Cranes 190 0.430 8.0 1 Excavators 180 0.580 8.0 1 Graders 174 0.575 8.0 Rough Terrain Forklifts 94 0.475 8.0 Rubber Tired Dozers Rubber Tired Loaders 1 352 0.590 8.0 165 0.465 8.0 Scrapers 313 0.660 8.0 Skid Steer Loaders 62 0.515 8.0 Surfacing Equipment 437 0.490 8.0 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

Horsepower

132

111

Load Factor

0.590

0.530

Hours/Day

8.0

8.0

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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 Construction

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URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\Ione\Alt B - Ione - Phase I Operation
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				***	
TOTALS (lbs/day,unmitigated)	ROG 1.61	NOx 0.98	CO 1.60	SO2 0.00	PM10 0.00
OPERATIONAL (VEHICLE) EMISSION	ESTIMATES ROG	NОх	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	122.54	328.33	2,012.50	1.58	282.63
SUM OF AREA AND OPERATIONAL EM	SSION ESTI	MATES			
	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	124.14	329.31	2,014.10	1.58	282.63

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URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\Ione\Alt B - Ione - Phase I Operation
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 TOTALS (tpy, unmitigated)	ROG 0.21	NOx 0.18	CO 0.22	SO2 0.00	PM10 0.00
OPERATIONAL (VEHICLE) EMISSION TOTALS (tpy, unmitigated)	ESTIMA ROG 24.86	TES NOX 63.64	CO 391.40	SO2 0.29	PM10 51.58
SUM OF AREA AND OPERATIONAL EMITOTALS (tpy, unmitigated)	SSION I ROG 25.07	ESTIMATES NOx 63.82	CO 391.62	SO2 0.29	РМ10 51.58

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URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\Ione\Alt B - Ione - Phase I Operation
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, Unmit	igated)	
Source	ROG	NOx	CO	S02	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

Casino	ROG	NOx	CO	SO2	PM10
	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. Total Units Trips
Casino		68.24 trips/1000 sq. ft	. 100.75 6,875.18
		Com of Mot	-1 m C 03F 10

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 1bs	s 15.10	2.60	95.40	2.00
Light Truck 3,751- 5,75	0 16.10	1.20	98.10	0.70
Med Truck 5,751-8,50	0 7.30	1.40	95.90	2.70
Lite-Heavy 8,501-10,00	0 1.10	0.00	81.80	18.20
Lite-Heavy 10,001-14,00	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,00	0 1.00	0.00	20.00	80.00
Heavy-Heavy 33,001-60,00	0 0.90	0.00	11.10	88.90
Line Haul > 60,000 lbs	s 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			Commercia.	1
	Home-	Home-	Home-			
	Work	Shop	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) 5.0 2.5 Casino 92.5 Page: 5 06/13/2007 3:27 PM

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 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 trip speed changed from 8 to 11.
The commercial based customer trip speed changed from 8 to 11.
The commercial based customer trip speed changed from 8 to 11.

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URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\Ione\Alt B - Ione - 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 E	CTTMATES						
*** 2009 *** TOTALS (lbs/day,unmiti	ROG	NOx 127.34	CO 167.23	SO2 0.00	PM10 TOTAL 31.64	PM10 EXHAUST 4.61	PM10 DUST 27.03
TOTALS (lbs/day, mitig	ated) 2.09	76.42	19.19	0.00	13.19	0.69	12.50
*** 2010 ***	ROG	NOx	co	S02	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
TOTALS (lbs/day,unmiti		229.53	219.77	0.21	7.11	6.89	0.22
TOTALS (lbs/day, mitig		137.75	23.68	0.21	1.26	1.04	0.22
AREA SOURCE EMISSION ES	TIMATES						
	ROG	NOx	CO	S02	PM10		
TOTALS (lbs/day,unmiti	gated) 0.92	1.30	1.87	0.00	0.01		
OPERATIONAL (VEHICLE) E	MISSION ESTIMATES						
(10000000000000000000000000000000000000	ROG	NOx	co	S02	PM10		
TOTALS (lbs/day,unmiti	gated) 111.50	298.44	1,832.94	1.57	282.47		
SUM OF AREA AND OPERATI	ONAL EMISSION ESTI	MATES					
	ROG	NOx	CO	S02	PM10		
TOTALS (lbs/dav.unmiti	gated) 112.43	299.74	1.834 80	1 57	282.48		

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URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\Ione\Alt B - Ione - 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 ESTIMATE	S						
*** 2009 ***	ROG	NOx	CO	S02	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
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
					PM10	PM10	PM10
*** 2010 ***	ROG	NOx	CO	SO2	TOTAL	EXHAUST	DUST
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	ESTIMATE	RS.					
(**************************************	ROG	NOx	co	SO2	PM10		
TOTALS (tpy, unmitigated)	22.62	57.84	356.22	0.29	51.55		
SUM OF AREA AND OPERATIONAL EM							
	ROG	NOx	CO	502	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:

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)

CONSTRUCTION EMISSION ESTIMA	ATES UNMITI	GATED (1bs	:/day)				
_		***			PM10	PM10	PM10
Source	ROG	иох	CO	SO2	TOTAL	EXHAUST	DUST
*** 2009***							
Phase 1 - Demolition Emission							
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 1bs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emiss	sions						
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
		200.00		0.00	30.3.	3.31	27.03
Phase 3 - Building Construct							
Bldg Const Off-Road Diesel		127.28	166. 1 5	-	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
1141/14444 1007 003	20.25	127104	101.25	0.00	4.05	4.01	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 Emission							
Fugitive Dust	0.00 0.00		_ ~	-	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
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 Emiss	sions						
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
maximum 203) day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construct	ion						
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	-	-		-	0.00	-
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	0.00
Asphalt Worker Trips	0.02	0.01	0.21	0.00	0.01	0.00	0.13
Maximum lbs/day	116.52	229.53	219.77	0.21	7.11	6.89	0.01
	110.52	227.55	٠ . ٠ . د . د	0.21	1.11	0.03	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.	Туре	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.	Туре	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 Architec	ctural Coatings: A	pr '10	
SubPha	ise Architectural Coatings Durati	ion: 1.1 months		
Start	Month/Year for SubPhase Asphalt:	: May '10		
SubPha	ise Asphalt Duration: 0.5 months			
Acres	to be Paved: 45			
Off-Ro	ad Equipment			

Off-Road Equipment

No.	Туре	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)

CONSTRUCTION EMISSION ESTIMATI	ES MITIGAT	TED (IDS/O	ay)			D144 D	
G	200	370		5 00	PM10	PM10	PM10
Source *** 2009***	ROG	NOx	CO	SO2	TOTAL	EXHAUST	DUST
Phase 1 - Demolition Emissions	5						
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 Emission	ons						
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	on						
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
TDD, dw1	4.02		1	0.00	0.75	0.03	0.04
Max lbs/day all phases	2.09	76.42	19.19	0.00	13.19	0.69	12.50

Phase 1 - Demolition Emissions

^{*** 2010***}

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 Emiss	ions						
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 Construct	ion						
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	-		-	-	-	0.01
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	0.30	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	0.13
÷ -		137.75	23.68	0.21			
Maximum lbs/day	90.76	731-13	23.08	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 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

Phase 3 - Bullding Constitute on Assaultions
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.	Туре	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	

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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
2 Pavers 132
1 Paving Equipment 111 Load Factor 0.590 0.530 Horsepower 132 111 Hours/Day 8.0

AREA SOURCE EMISSION ESTIMATES	(Summer	Pounds per	Day, Unmit	igated)	
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

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UNMITIGATED OPERATIONAL EMISSIONS

Hotel	ROG	NOx	CO	SO2	PM10
	111.50	298.44	1,832.94	1.57	282.47
TOTAL EMISSIONS (lbs/dav)	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 lb	s 15.20	2.00	96.00	2.00
Light Truck 3,751- 5,75	0 16.20	1.20	98.10	0.70
Med Truck 5,751-8,50	0 7.30	1.40	95.90	2.70
Lite-Heavy 8,501-10,00	0 1.10	0.00	81.80	18.20
Lite-Heavy 10,001-14,00	0 0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,00	0 1.00	0.00	20.00	80.00
Heavy-Heavy 33,001-60,00	0 0.90	0.00	11.10	88.90
Line Haul > 60,000 lb	s 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) 5.0 2.5 92.5 Hotel

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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 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 trip speed changed from 8 to 11.
The commercial based customer trip speed changed from 8 to 11.
The commercial based customer trip speed changed from 8 to 11.
The commercial based customer rural trip length changed from 8 to 11.

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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 (1bs/day,unmitigated)	5.47	5.26	6.75	0.00	0.02
OPPROGRAMMA (VENEZALE) ENTOGION	noman) and				
OPERATIONAL (VEHICLE) EMISSION	ESTIMATES				
	ROG	NOx	CO	S02	PM10
TOTALS (lbs/day,unmitigated)	169.77	446.18	2.742.02	2.35	422.05
TOTALD (IDD) day/ dimirergaced/	107	110.20	2,,12.02	2.33	122.03
SUM OF AREA AND OPERATIONAL EMI	SSION ESTI	MATES			
	ROG	NOx	CO	SO2	PM10
TOTALS (1bs/day,unmitigated)	175.23	451.44	2,748.77	2.35	422.07

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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)

	OG NOx 73 0.96	CO 1.02	SO2 0.00	PM10 0.00
OPERATIONAL (VEHICLE) EMISSION EST R TOTALS (tpy, unmitigated) 34.	OG NOx	CO 532.95	SO2 0.43	PM10 77.02
SUM OF AREA AND OPERATIONAL EMISSI R TOTALS (tpy, unmitigated) 35.	OG NOx	CO 533.96	SO2 0.43	PM10 77.03

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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, Unmit:	igated)	
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	S02	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	Acreage	Trip Ra	te		No. Units	Trips
Event and Convention Cent Casino Hotel		68.24 tr	ips/students ips/1000 sq. ips/rooms	ft.	1,200.00 100.75 250.00	2,856.00 6,875.18 745.00

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
	54.70	1.10	98.70	0.20
Light Auto	34.70	1.10	30.70	0.20
Light Truck < 3,750 lb	s 15.20	2.00	96.00	2.00
Light Truck 3,751- 5,75	0 16.20	1.20	98.10	0.70
Med Truck 5,751-8,50	0 7.30	1.40	95.90	2.70
Lite-Heavy 8,501-10,00	0 1.10	0.00	81.80	18.20
Lite-Heavy 10,001-14,00	0 0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,00	0 1.00	0.00	20.00	80.00
Heavy-Heavy 33,001-60,00	0 0.90	0.00	11.10	88.90
Line Haul > 60,000 1b	s 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

Traver conditions							
•	Residential			Commercial			
	Home-	Home-	Home-				
	Work	Shop	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 (-	use)					
Event and Convention Cent	er			5.0	2.5	92.5	
Casino				5.0	2.5	92.5	
Hotel				5.0	2.5	92.5	

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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 non-work trip speed changed from 35 to 55.
The commercial based non-work trip speed changed from 8 to 11.
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 8 to 11.
The commercial based customer rural trip length changed from 8 to 11.

ALTERNATIVE C

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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							
*** 2008 *** TOTALS (lbs/day,unmitigated)	ROG 44.09	NOx 277.05	CO 373.33	SO2 0.10	PM10 TOTAL 26.62	PM10 EXHAUST 9.99	PM10 DUST 16.63
*** 2009 *** TOTALS (lbs/day,unmitigated)	ROG 146.60	NOx 79.87	CO 110.21	SO2 0.00	PM10 TOTAL 2.82	PM10 EXHAUST 2.66	PM10 DUST 0.16
AREA SOURCE EMISSION ESTIMATES							
TOTALS (lbs/day,unmitigated)	ROG 1.29	NOx 0.77	1.42	SO2 0.00	PM10 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 EMI			20	700	nud 0		
TOTALS (lbs/day,unmitigated)	ROG 106.94	NOx 283.22	CO 1,723.43	SO2 1.24	PM10 222.45		

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URBEMIS 2002 For Windows 8.7.0

File Name:

 ${\tt C:\Program\ Files\URBEMIS\ 2002\ Version\ 8.7\Projects2k2\Ione\Alt\ C\ -\ Ione\ -\ Phase\ I.urb}$

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 ESTIMATE	s				PMI 0	Dv/1 0	7341.0
*** 2008 *** TOTALS (tpy, unmitigated)	ROG 0.99	NOx 6.54	CO 8.19	SO2 0.00	PM10 TOTAL 0.46	PM10 EXHAUST 0.23	PM10 DUST 0.23
*** 2009 *** TOTALS (tpy, unmitigated)	ROG 1.81	NOx 2.06	CO 2.88	SO2 0.00	PM10 TOTAL 0.07	PM10 EXHAUST 0.07	PM10 DUST 0.00
AREA SOURCE EMISSION ESTIMATES							
TOTALS (tpy, unmitigated)	ROG 0.17	NOx 0.14	CO 0.19	SO2 0.00	PM10 0.00		
OPERATIONAL (VEHICLE) EMISSION							
TOTALS (tpy, unmitigated)	ROG 21.41	NOx 54.74	CO 334.98	SO2 0.23	PM10 40.60		
SUM OF AREA AND OPERATIONAL EM			20	go 2	met 0		
TOTALS (tpy, unmitigated)	ROG 21.58	NOx 54.88	CO 335.16	SO2 0.23	PM10 40.60		

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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)

CONSTRUCTION EMISSION ESTIMA	HIES CHMIII	GALED (1DS	(/day)		DM: 0	D141.0	m. 44.0
Causana	ROG	> 70	70	con.	PM10	PM10	PM10
Source	KUG	NOx	CO	SO2	TOTAL	EXHAUST	DUST
*** 2008***							
Phase 1 - Demolition Emission	ons						
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 Emiss	sions						
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				
Maximum lbs/day	44.00			0.01	0.09	0.03	0.06
Maximum IDS/day	44.09	277.05	373.33	0.01	19.05	9.99	9.06
Phase 3 - Building Construct	tion						
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	-	-	-	0.50	0.00	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	
Asphalt Worker Trips	0.00	0.00	0.00				0.00
Maximum lbs/day	5.45			0.00	0.00	0.00	0.00
Maximum ibs/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 Emission	ons						
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 Emiss	sions						
Fugitive Dust	-	_	-		0.00		0.00
Off-Road Diesel	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	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 Construct	tion					-	
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	_		0.00	0.07	0.00	0.07
Arch Coatings Worker Trips	0.12	0.07	1.44	0.00	0.07	0.00	0.07
Asphalt Off-Gas	0.12	0.07	1.44	0.00	0.07	0.00	0.07
Asphalt Off-Road Diesel	7.42	45.18	62.51	<u> </u>	1.54		0.00
Asphalt On-Road Diesel	0.10	1.89	0.38			1.54	0.00
Asphalt Worker Trips	0.02	0.01		0.00	0.04	0.04	0.00
			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 Load Factor 0.780 0.590 No. Туре Horsepower Hours/Day Crushing/Processing Equip 154 352 8.0 Rubber Tired Dozers Rubber Tired Loaders 2 8.0 165 0.465 8.0 1 0.465 Tractor/Loaders/Backhoes 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. Туре Horsepower Load Factor Hours/Day 0.580 0.575 Excavators 180 8.0 3 Graders 174 8.0 Off Highway Trucks 417 0.490 8.0 0.620 2 Other Equipment 190 8.0 Rubber Tired Dozers Rubber Tired Loaders 0.590 352 8.0 0.465 8.0 165 Tractor/Loaders/Backhoes 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 Concrete/Industrial saws 84 0.730 8.0 0.430 1 Cranes 190 8.0 94 Rough Terrain Forklifts 0.475 8.0 Rubber Tired Loaders 165 0.465 8.0 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 Type Horsepower Load Factor Hours/Day 2 Pavers 132 0.590 8.0 0.530 1 Paving Equipment 111 8.0 1 Scrapers 313 0.660 8.0

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AREA SOURCE EMISSION ESTIMATES	(Summer	Pounds per	Day, Unmit	igated)	
Source	ROG	NOx	CO	S02	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(1bs/day,unmitigated)	1.29	0.77	1.42	0.00	0.00

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UNMITIGATED OPERATIONAL EMISSIONS

Casino	ROG	NOx	CO	SO2	PM10
	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	Acreage	Trip Rate	No. Units	Total Trips
Casino		68.24 trips/1000 sq. ft.	79.25 5	,408.02
		Sum of Total Tri Total Vehicle Miles Travel		,408.02 ,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 lb	s 15.00	2.70	95.30	2.00
Light Truck 3,751- 5,75	0 16.20	1.20	97.50	1.30
Med Truck 5,751-8,50	0 7.20	1.40	95.80	2.80
Lite-Heavy 8,501-10,00	0 1.10	0.00	81.80	18.20
Lite-Heavy 10,001-14,00	0 0.40	0.00	50.00	50.00
Med-Heavy 14,001-33,00	0 1.00	0.00	20.00	80.00
Heavy-Heavy 33,001-60,00	0.90	0.00	11.10	88.90
Line Haul > 60,000 lb	s 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	

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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 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 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 trip speed changed from 8 to 11.
The commercial based customer trip speed changed from 8 to 11.
The commercial based customer rural trip length changed from 8 to 11.
The commercial based customer rural trip length changed from 8 to 11.

ALTERNATIVE D

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URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\Tone\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							
*** 2008 *** TOTALS (lbs/day,unmitigated)	ROG 15.85	NOx 148.55	CO 131.22	SO2 0.10	PM10 TOTAL 27.19	PM10 EXHAUST 4.17	PM10 DUST 23.02
*** 2009 *** TOTALS (lbs/day,unmitigated)	ROG 220.73	NOx 79.93	CO 111.81	SO2 0.00	PM10 TOTAL 2.88	PM10 EXHAUST 2.66	PM10 DUST 0.22
AREA SOURCE EMISSION ESTIMATES							
TOTALS (lbs/day,unmitigated)	ROG 1.94	NOx 1.20	CO 1.78	SO2 0.00	PM10 0.00		
OPERATIONAL (VEHICLE) EMISSION	ESTIMATES ROG	NOx	СО	SO2	PM10		
TOTALS (lbs/day,unmitigated)	79.03	184.56	1,142.14	0.80	143.28		
SUM OF AREA AND OPERATIONAL EMI				an 0			
TOTALS (lbs/day,unmitigated)	ROG 80.96	NOx 185.76	CO 1,1 4 3.92	SO2 0.80	PM10 143.28		

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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 ESTIMATE	ES						
*** 2008 *** TOTALS (tpy, unmitigated)	ROG 0.61	NOx 4.28	CO 5.05	SO2 0.00	PM10 TOTAL 0.57	PM10 EXHAUST 0.15	PM10 DUST 0.42
*** 2009 *** TOTALS (tpy, unmitigated)	ROG 2.62	NOx 2.07	CO 2.93	SO2 0.00	PM10 TOTAL 0.08	PM10 EXHAUST 0.07	PM10 DUST 0.01
AREA SOURCE EMISSION ESTIMATES	5						
TOTALS (tpy, unmitigated)	ROG 0.26	NOx 0.22	CO 0.25	SO2 0.00	PM10 0.00		
OPERATIONAL (VEHICLE) EMISSION	N ESTIMATE	Es					
TOTALS (tpy, unmitigated)	ROG 16.26	NOx 35.76	CO 222.81	SO2 0.15	PM10 26.15		
SUM OF AREA AND OPERATIONAL E			60	S02	DM1.0		
TOTALS (tpy, unmitigated)	ROG 16.52	NOx 35.98	CO 223.06	0.15	PM10 26.15		

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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)

CONSTRUCTION EMISSION ESTIMA	ES OWNER	ONIDO (IDS	i / day /		PM10	PM10	PM10
Source *** 2008***	ROG	NOx	CO	SO2	TOTAL	EXHAUST	DUST
Phase 1 - Demolition Emission	ons						
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 1bs/day	13.48	148.55	100.50	0.10	20.80	4.17	16.63
• •		_			24.00		20.05
Phase 2 - Site Grading Emis	sions						
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 Construct							
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 Emission	an e						
Fugitive Dust	3115				0.00		
Off-Road Diesel	0.00	0.00	- 0.00	-	0.00	-	0.00
	0.00		0.00	-	0.00	0.00	0.00
On-Road Diesel		0.00	0.00	0.00	0.00	9.00	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 Emiss	sions						
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		
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
•				0.00	0.00	0.00	0.00
Phase 3 - Building Construct							
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	0.00
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 Load Factor Hours/Day Νo. Туре Horsepower Crushing/Processing Equip 0.780 154 8.0 Rubber Tired Dozers Rubber Tired Loaders 352 0.590 2 8.0 1 0.465 8.0 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 Load Factor Hours/Day Horsepower Excavators 0.580 180 8 0 0.575 1 Graders 174 8.0 Off Highway Trucks 417 0.490 8.0 Other Equipment 190 0.620 8.0 1 Rubber Tired Dozers 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. Туре Horsepower Load Factor Hours/Day Concrete/Industrial saws 84 0.730 8.0 Cranes 190 0.430 8.0 1 Rough Terrain Forklifts 94 0.475 8.0 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 Hours/Day Horsepower Load Factor 2 Pavers 132 0.590 8.0 1 Paving Equipment 111 0.530 8.0 0.660 1 Scrapers 8.0

AREA SOURCE EMISSION ESTIMATES	(Summer	Pounds per	Day, Unmit	tigated)	
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

Regnl shop. center	ROG	NOx	CO	SO2	PM10
	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. Total Units Trips
Regnl shop. center		42.94 trips/1000 sq. ft.	123.25 5,292.36
		Sum of Total Tr Total Vehicle Miles Trave	

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	s 15.00	2.70	95.30	2.00
Light Truck 3,751- 5,75	0 16.20	1.20	97.50	1.30
Med Truck 5,751-8,50	7.20	1.40	95.80	2.80
Lite-Heavy 8,501-10,00	0 1.10	0.00	81.80	18.20
Lite-Heavy 10,001-14,00	0.40	0.00	50.00	50.00
Med-Heavy 14,001-33,00	0 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 lb:	s 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-	Home- Home- Home-					
Work	Shop	Other	Commute	Non-Work	Customer	
10.8	7.3	7.5	9.5	7.4	7.4	
28.0	28.0	28.0	28.0	28.0	28.0	
35.0	35.0	35.0	55.0	55.0	55.0	
32.9	18.0	49.1				
by land	use)					
			2.0	1.0	97.0	
	Home- Work 10.8 28.0 35.0 32.9	Home- Home- Shop 10.8 7.3 28.0 28.0 35.0 35.0	Home- Home- Home- Work Shop Other 10.8 7.3 7.5 28.0 28.0 28.0 35.0 35.0 35.0 32.9 18.0 49.1	Home- Home- Home- Work Shop Other Commute 10.8 7.3 7.5 9.5 28.0 28.0 28.0 28.0 35.0 35.0 55.0 32.9 18.0 49.1 by land use)	Home- Home- Home- Other Commute Non-Work 10.8 7.3 7.5 9.5 7.4 28.0 28.0 28.0 28.0 28.0 28.0 35.0 35.0 35.0 55.0 55.0 32.9 18.0 49.1	

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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 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 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 trip speed changed from 8 to 11.
The commercial based customer trip speed changed from 8 to 11.

GREENHOUSE GASSES

Table 1
Estimation of GHG Emissions lone Casino/Hotel

		Mobile Source				_
	Emission Factor (CO ₂ /CH ₄ /N ₂ O)	Miles Traveled	CO ₂ Emissions	CH ₄ Emissions	N₂O Emissions	Total CO ₂ e
	g/mile	miles/day		tons pe		
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	CO ₂	CH₄	N₂O	Total
	(Kg of CO ₂ /CH ₄ /N ₂ O)	Usage ¹	Emissions	Emissions	Emissions	CO₂e
	MMBtu	MMBtu/day		tons pe	r year	
Alternative A	52.78/0.0059/0.0001	60	3.491	0.00039	0.00001	3.501
	0					
Alternative B	52.78/0.0059/0.0001	55	3.200	0.00039	0.00001	3.210
		55 40	3.200 2.327	0.00039 0.00039	0.00001 0.00000	3.210 2.337
Alternative B	52.78/0.0059/0.0001					
Alternative B Alternative C Alternative D	52.78/0.0059/0.0001 52.78/0.0059/0.0001	40 40	2.327	0.00039	0.00000	2.337
Alternative B Alternative C Alternative D	52.78/0.0059/0.0001 52.78/0.0059/0.0001 52.78/0.0059/0.0001	40 40	2.327	0.00039	0.00000	2.337
Alternative B Alternative C Alternative D Total Greenhouse	52.78/0.0059/0.0001 52.78/0.0059/0.0001 52.78/0.0059/0.0001	40 40	2.327	0.00039	0.00000	2.337
Alternative B Alternative C Alternative D Total Greenhouse Alternative A	52.78/0.0059/0.0001 52.78/0.0059/0.0001 52.78/0.0059/0.0001 e Gas Emission (tons per 72,018	40 40	2.327	0.00039	0.00000	2.337

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

August 15, 2007 Ione Casino and Hotel

TONEGR

*************** * MOBILE6.2.03 (24-Sep-2003)

* SUMMER COMMUTER

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)

75. grains/lb Absolute Humidity:

Nominal Fuel RVP: 7.8 psi Weathered RVP: 7.4 psi Fuel Sulfur Content: 30. ppm

Exhaust I/M Program:

Evap I/M Program: No ATP Program: No

Reformulated Gas: No

Vehicle Type: HDDV MC	LDGV All Veh	LDGT12	LDGT34	LDGT	HDGV	LDDV	\mathtt{LDDT}
GVWR:		<6000	>6000	(All)			
					~		
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 H		ni):					
Composite CO2 :	368.2	477.5	620.3	514.0	916.7	316.1	596.5
1418.6 177.4	552.08						
			•				