

# Vernola Marketplace Apartment Community (MA 21046) Air Toxic and Criteria Pollutant Health Risk Assessment City of Jurupa Valley

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14172-02 Freeway HRA Report

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## LIST OF ABBREVIATED TERMS

(1)	Reference
AADT	Annual Average Daily Traffic Volumes
ARB	Air Resources Board
CAAQS	California Ambient Air Quality Standards
Caltrans	California Department of Transportation
CEQA	California Environmental Quality Act
СО	Carbon Monoxide
CPF	Cancer Potency Factor
EPA	Environmental Protection Agency
HRA	Health Risk Assessment
LDA	Light Duty Auto
LDT	Light Duty Truck
LHD	Light Heavy Duty
MCY	Motorcycle
MDV	Medium Duty Vehicle
NO2	Nitrogen Dioxide
OBUS	Other Bus
PM10	Particulate Matter 10 microns in diameter or less
PM2.5	Particulate Matter 2.5 microns in diameter or less
PPM	Parts per Million
Project	Crestview Apartments
PVMRM	Plume Volume Molar Ratio Methods
REL	Reference Exposure Level
RME	Reasonable Maximum Exposure
SBUS	School Bus
SCAQMD	South Coast Air Quality Management District
TACs	Toxic Air Contaminants
UBUS	Urban Bus
URF	Unit Risk Factor
UTM	Universal Traverse Mercator



## **EXECUTIVE SUMMARY**

In 2005, the California Air Resources Board (ARB) promulgated an advisory recommendation to avoid setting sensitive land uses within 500 feet of a freeway, urban roads with 100,000 vehicles per day, or rural roads with 50,000 vehicles per day. The ARB indicates that due to traffic-generated pollutants, there is an estimated increased cancer risk incidence of 300 to 1,700 per million within this domain. At some point however, the increased cancer risk incidence due the effects of freeway/roadway corridor pollutants become indistinguishable from the ambient air quality condition. In this regard, the effects of freeway/roadway-source pollutants that may impact the Project site are already acknowledged and accounted for within the ambient air quality discussions presented within this Section. More specifically, the MATES-IV Study data for the Project site comprehensively reflects increased TAC-source cancer risks affecting the City and Project site, inclusive of increased cancer risks due to freeway sources.

The 2005 ARB guidance noted previously, information made available through the MATES-IV Study, and configuration and design of the Project would suggest that further assessment of freeway-source pollutant impacts is not warranted. Notwithstanding, this Off-Site Freeway-Source Air Toxic and Criteria Pollutant Health Risk Assessment has been prepared for the Project and is intended to:

- Comply with and support CEQA Section 15003 (i) policies addressing adequacy, completeness, and a good-faith effort at full disclosure;
- Disaggregate potential freeway-source air pollutant health effects from other background conditions identified in the MATES IV Study; and
- Identify means to reduce the specific effects of freeway-source pollutants at the Project site.

Findings and conclusions of this Assessment are summarized below.

### SUMMARY OF FINDINGS

For carcinogenic exposures resulting from exposure to toxics from the freeway, the summation of risk for the maximum exposed residential receptor totaled 4.60 in one million and will not exceed the SCAQMD significance threshold of 10 in one million.

For chronic noncarcinogenic effects, the hazard index identified for each toxicological endpoint totaled less than one. For acute exposures, the hazard indices for the identified averaging times did not exceed unity. Therefore, noncarcinogenic hazards are calculated to be within acceptable limits and a less than significant impact would occur.

For the maximum exposed residential receptor, results of the analysis predicted freeway emissions will produce PM10 concentrations of 0.82  $\mu$ g/m3 and 0.49  $\mu$ g/m3 for the 24-hour and annual averaging times. These values will not exceed the SCAQMD significance thresholds of 2.5  $\mu$ g/m3 and 1.0  $\mu$ g/m3, respectively.

For PM2.5, a maximum 24-hour average concentration of 0.33  $\mu$ g/m3 was predicted. This value also will not exceed the identified significance threshold of 2.5  $\mu$ g/m3.



The maximum modeled 1-hour average concentration for CO of 0.11 parts per million (ppm), when added to an existing background concentration of 2.2 ppm, would equal a total Project concentration of 2.31 ppm. This would not cause an exceedance of the California Ambient Air Quality Standards (CAAQS) of 20 ppm. For the 8-hour averaging time, the maximum predicted concentration of 0.09 ppm, when added to an existing background level of 2.0 ppm, would equal a total Project concentration of 2.09 ppm. This would not cause an exceedance of the CAAQS of 9 ppm.

For NO2, a maximum one-hour concentration of 0.011 ppm was predicted. This concentration, when added to a background concentration of 0.066 ppm, would equal a total Project concentration of 0.078 ppm. This would not cause an exceedance of the CAAQS of 0.18 ppm.

As noted, short duration (i.e., 1 and 8-hour) exposures associated with both toxic and criteria pollutants are within acceptable limits. As such, less than significant impacts are anticipated to residents who would access and utilize outdoor amenities.





## 1 INTRODUCTION

In 2005, the California Air Resources Board (ARB) promulgated an advisory recommendation to avoid setting sensitive land uses within 500 feet of a freeway, urban roads with 100,000 vehicles per day or rural roads with 50,000 vehicles per day. According to the ARB, the increased cancer risk is 300 to 1,700 per million within this domain. The strongest association of traffic related emissions with adverse health outcomes was seen within 300 feet of roadways with high truck densities. Notwithstanding, the ARB notes that a site-specific analysis would be required to determine the actual risk near a particular land use and should consider factors such as prevailing wind direction, local topography and climate.

In consideration of the above referenced requirement, the assessment and dispersion modeling methodologies used in the preparation of this report were composed of all relevant and appropriate procedures presented by the U.S. Environmental Protection Agency, California Environmental Protection Agency and South Coast Air Quality Management District (SCAQMD). The methodologies and assumptions offered under this regulatory guidance were used to ensure that the assessment effectively quantified residential exposures associated with the generation of contaminant emissions from adjacent mobile source activity.

This report summarizes the protocol used to evaluate contaminant exposures and presents the results of the health risk assessment (HRA) prepared by Urban Crossroads, Inc., for the proposed Vernola Marketplace Apartment Community development (referred to as "Project).

### **1.1** SITE LOCATION

The proposed project is located east of the I-15 freeway between Limonite Avenue and 68th Street, west of Pats Ranch Road in the City of Jurupa Valley as shown on Exhibit 1-A. The nearest existing residential land uses are located east of the Project site across Pats Ranch Road and west of the Project site across the I-15 Freeway. The initial Phase A Vernola Marketplace Apartment Community project is located to the south.

### **1.2 PROJECT DESCRIPTION**

The project includes a 3-story multifamily housing community with 210 units. The proposed project site is currently zoned as light industrial land use. The project proposes to change the land use in the General Plan to highest density residential (HHDR). Exhibit 1-B illustrates a preliminary site plan for the Project. As required by the California Building Energy Efficiency Standards (Title 24, Part 6 of California Code of Regulations (CCR)), the Project will install air filtration systems with efficiencies equal to or exceeding a Minimum Efficiency Reporting Value (MERV) 13 as defined by the American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE) Standard 52.2. (1)<sup>1</sup>.

<sup>1</sup> The use of MERV filtration systems to reduce DPM and particulates has been successfully implemented by several lead agencies, including, but not limited to: City of Los Angeles, City of Claremont, City of Irvine, City of Glendale, City of Berkley, City of Oakland, and the Los Angeles Unified School District (LAUSD). The average particle size efficiency (PSE) removal for MERV 13 as defined by the 2019 Title 24 standards is approximately 50% for 0.3 to 1.0 μg/m<sup>3</sup> (DPM), 85% for 1.0 to 3.0 μg/m<sup>3</sup> (PM2.5), and 90% for 3.0 to 10.0 μg/m<sup>3</sup> (PM10) (2).





EXHIBIT 1-A: LOCATION MAP





EXHIBIT 1-B: SITE PLAN







## 2 SOURCE IDENTIFICATION

The California Department of Transportation (Caltrans), Traffic and Vehicle Data Systems Unit collects and maintains traffic volume counts for vehicles traversing the California state highway system. Table 2-1 presents the annual average daily traffic volumes (AADT) for the freeway segment considered in the assessment. The AADT volumes for I-15 are based on existing volumes obtained from the Caltrans Traffic Data Brand Annual Average Daily Truck Traffic on the California Highway System data.

#### TABLE 2-1 FREEWAY TRAFFIC VOLUMES

Roadway Segment	AADT	Vehicles Per Hour (ALL)	Vehicles Per Hour (gas)	Vehicles Per Hour (diesel)
I-15 Freeway	152,000	6,333	6,085	248





## **3** SOURCE CHARACTERIZATION

In urban communities, vehicle emissions contribute significantly to localized concentrations of air contaminants. Typically, emissions generated from these sources are characterized by vehicle mix, the rate pollutants are generated during the course of travel and the number of vehicles traversing the roadway network.

Currently, emission factors are generated from a series of computer based programs to produce a composite emission rate for vehicles traveling at various speeds within a defined geographical area or along a discrete roadway segment. To account for the emission standards imposed on the California fleet, the ARB has developed the EMFAC2017 emission factor model. EMFAC2017 was utilized to identify pollutant emission rates for total organic gases (TOG), diesel particulates, particulates (PM10 and PM2.5), carbon monoxide (CO) and nitrogen oxide (NOx) compounds (2). To produce a representative vehicle fleet distribution, the assessment utilized ARB's Riverside County vehicle population estimates for the 2023 calendar year, consistent with the Project's anticipated Opening Year for analytical purposes. This approach provides an estimate of vehicle mix associated with operational profiles at the link or intersection level. Table 3-1 lists the identified fleet mix considered in the assessment.

Based upon the freeway traffic volumes and vehicle population profiles noted above, discrete traffic counts were identified for each roadway segment. Diesel vehicles account for 3.92 percent of the total on-road mobile fleet. For chronic (long term) and acute (e.g., 1-hour) exposures, AADT values were averaged to produce representative hourly traffic volumes.



Vahiela elece	Riverside County			
venicle class	Fuel	Population	Percent	
LDA	Diesel	772,785.87	51.76%	
LDA	Gas	7,300.59	0.49%	
LDA	Electric	12,758.75	0.85%	
LDT1	Diesel	39.18	0.00%	
LDT1	Gas	82,772.07	5.54%	
LDT1	Electric	485.08	0.03%	
LDT2	Diesel	1,463.53	0.10%	
LDT2	Gas	252,998.01	16.95%	
LDT2	Electric	2,319.02	0.16%	
LHD1	Diesel	20,161.77	1.35%	
LHD1	Gas	20,620.88	1.38%	
LHD2	Diesel	7,795.76	0.52%	
LHD2	Gas	3,286.38	0.22%	
MCY	Gas	36,240.66	2.43%	
MDV	Diesel	4,324.74	0.29%	
MDV	Gas	208,995.21	14.00%	
MDV	Electric	1,262.69	0.08%	
MHDT	Diesel	2,591.61	0.17%	
MHDT	Gas	6,006.90	0.40%	
HHDT	Diesel	15,610.04	1.05%	
HHDT	Gas	2,027.16	0.14%	
HHDT	Natural Gas	27,819.82	1.86%	
OBUS	Diesel	7.26	0.00%	
OBUS	Gas	316.99	0.02%	
SBUS	Diesel	351.64	0.02%	
SBUS	Gas	588.34	0.04%	
UBUS	Diesel	1,154.01	0.08%	
UBUS	Gas	490.88	0.03%	
UBUS	Electric	1.11	0.00%	
UBUS	Natural Gas	164.46	0.01%	

#### TABLE 3-1: VEHICLE FLEET MIX PROFILE

Note: Vehicle category descriptions can be found on the California Air Resources Board website at http://www.arb.ca.gov/msei/modeling.htm.



Average observed route speeds were assumed for vehicles traversing the main highway link (I-15).

For particulates (PM10 and PM2.5), emissions were quantified through the reentrainment of paved roadway dust. The predictive emission equation developed by the U.S. Environmental Protection Agency (AP-42, Section 13.2.1) was utilized to generate particulate source strength (3). To account for the mass rate of emissions entrained from the roadway surface, the contribution from exhaust, break and tire wear were added to the AP-42 emission factor equation.

A list of compounds associated with mobile source emissions is presented in Table 3-3. Appendix 3.1 presents the on-road emission rate calculation worksheets for the freeway segments considered in the assessment.

Source	Pollutant			
	Benzene			
	Formaldehyde			
	1,3-Butadiene			
Frooway	Acetaldehyde			
Fleeway	Acrolein			
	Diesel Particulates			
	Reentrained Particulates (PM10, PM2.5)			
	Carbon Monoxide			
	Nitrogen Dioxide			

TABLE 3-3: COMPOUNDS EMITTED FROM ON ROAD MOBILE SOURCE ACTIVITY





## 4 EXPOSURE QUANTIFICATION

In order to assess the impact of emitted compounds on individuals who reside at the proposed apartment complex, air quality modeling utilizing the AMS/EPA Regulatory Model AERMOD was performed to assess the downwind extent of mobile source emissions located within a 1,000 feet of the project site. AERMOD's air dispersion algorithms are based upon a planetary boundary layer turbulence structure and scaling concepts, including the treatment of surface and elevated sources in simple and complex terrain.

The model offers additional flexibility by allowing the user to assign initial vertical and lateral dispersion parameters for sources representative of a localized mobile fleet. For this assessment, the volume source algorithm was utilized to model the emissions generated from on-road mobile source activity.

The modeling conservatively utilizes the full conversion protocol to perform the NOx to NO2 conversion.

Air dispersion models require additional input parameters including pollutant emission data and local meteorology. Due to the their sensitivity to individual meteorological parameters such as wind speed and direction, the U.S. Environmental Protection Agency recommends that meteorological data used as input into dispersion models be selected on the basis of relative spatial and temporal conditions that exist in the area of concern. In response to this recommendation, the nearest meteorological data available from the SCAQMD Riverside Airport Meteorological Data Station (Source Receptor Area 23), was used to represent local weather conditions and prevailing winds. Five years (2012-2016) of available AERMOD meteorological data was utilized in the modeling, which is the latest available information from SCAQMD.

The modeling analysis also considered the spatial distribution of mobile source activity traversing the freeway in relation to the proposed site. To accommodate a Cartesian grid format, direction dependent calculations were obtained by identifying the universal transverse mercator (UTM) coordinates for each volume source location. On-site receptors were placed to provide coverage across the identified residential portion of the site. A ground level receptor height was assumed as a conservative measure. A graphical representation of the source-receptor grid network is presented in Exhibit 4-A. A complete listing of model input/output files are provided in electronic format in Appendix 4.1.





EXHIBIT 4-A: SOURCE RECEPTOR GRID NETWORK

- · · · · ·
  - = Modeled Sensitive Receptors

Hodeled Emissions Source



## 5 RISK CHARACTERIZATION

### 5.1 CARCINOGENIC CHEMICAL RISK

The SCAQMD <u>CEQA Air Quality Handbook</u> (1993) states that emissions of toxic air contaminants (TACs) are considered significant if a HRA shows an increased risk of greater than ten in one million. Based on guidance from the SCAQMD in the document <u>Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis</u> (4), for purposes of this analysis, ten (10) in one million is used as the cancer risk threshold for the proposed Project.

Excess cancer risks are estimated as the upper-bound incremental probability that an individual will develop cancer over a lifetime as a direct result of exposure to potential carcinogens over a specified exposure duration. The estimated risk is expressed as a unitless probability. The cancer risk attributed to a chemical is calculated by multiplying the chemical intake or dose at the human exchange boundaries (e.g., lungs) by the chemical-specific cancer potency factor (CPF). A risk level of 1 in a million implies a likelihood that up to one person, out of one million equally exposed people would contract cancer if exposed continuously (24 hours per day) to the levels of toxic air contaminants over a specified duration of time. This risk would be an excess cancer risk that is in addition to any cancer risk borne by a person not exposed to these air toxics.

Health risks associated with exposure to carcinogenic compounds can be defined in terms of the probability of developing cancer as a result of exposure to a chemical at a given concentration. Under a deterministic approach (i.e., point estimate methodology), the cancer risk probability is determined by multiplying the chemical's annual concentration by its unit risk factor (URF). The URF is a measure of the carcinogenic potential of a chemical when a dose is received through the inhalation pathway. It represents an upper bound estimate of the probability of contracting cancer as a result of continuous exposure to an ambient concentration of one microgram per cubic meter ( $\mu$ g/m<sup>3</sup>) over a 70-year lifetime. The URFs utilized in the assessment and corresponding cancer potency factors were obtained from the *Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values*.

Notwithstanding, it is the intent of the HRA to provide cumulative risk estimates from near-field on-road sources that are reflective of anticipated exposures experienced at a given residential occupancy. As such, a review of relevant guidance was conducted to determine applicability of the use of early life exposure adjustments to identified carcinogens. For risk assessments conducted under the auspices of The Air Toxics "Hot Spots" Information and Assessment Act (AB 2588, Connelly, Statutes of 1987; Health and Safety Code Section 44300 et seq.) a weighting factor is applied to all carcinogens regardless of purported mechanism of action. However, for this assessment, the HRA relied upon U.S. Environmental Protection Agency guidance relating to the use of early life exposure adjustment factors (Supplemental Guidance for Assessing Susceptibility from Early-Life Exposure to Carcinogens, EPA/630/R-003F) whereby adjustment factors are only considered when carcinogens act "through the mutagenic mode of action." A mutagen is a physical or chemical agent that changes genetic material, such as DNA, increasing



the frequency of mutations to produce carcinogenic effects. The U.S. Environmental Protection Agency has identified 19 compounds that elicit a mutagenic mode of action for carcinogenesis. None of the gaseous compounds considered in the HRA elicit a mutagenic mode of action and, therefore, early life exposure adjustments were not considered. For diesel particulates, polycyclic aromatic hydrocarbons (PAHs) and their derivatives, which are known to exhibit a mutagenic mode of action, comprise < 1% of the exhaust particulate mass. To date, the U.S. Environmental Agency reports that whole diesel engine exhaust has not been shown to elicit a mutagenic mode of action.

Accordingly, the health risks to children were not underestimated in the Health Risks Assessment. As discussed, the use of age-weighted factors is not required because none of the gaseous compounds considered in the HRA elicit a primary mutagenic mode of action and none of the pollutants considered are listed by the EPA as having a primary mutagenic mode of action. Therefore, early life exposure adjustments were not considered in accordance with U.S. EPA guidance relating to the use of early life exposure adjustment factors. This analysis appropriately accounts for potential health risk to future residents at the project site.

To effectively quantify dose, the procedure requires the incorporation of several discrete exposure variates. Once determined, contaminant dose is multiplied by the cancer potency factor (CPF) in units of inverse dose expressed in milligrams per kilogram per day (mg/kg/day)<sup>-1</sup> to derive the cancer risk estimate. Therefore, to assess exposures associated with the proposed residential population, the following dose algorithm was utilized.

$$CDI = (C_{air} \times EF \times ED \times IR) / (BW \times AT)$$

Where:

(	DI	= chronic daily intake (mg/kg/day)		
(	Cair	=	concentration of contaminant in air (mg/m <sup>3</sup> )	
E	EF =	exposu	ire frequency (days/year)	
E	Đ	=	exposure duration (years)	
I	R	=	inhalation rate (m <sup>3</sup> /day)	
E	3W	=	body weight (kg)	
ŀ	٩T	=	averaging time (days)	

To represent residential exposures, the assessment employed the U.S. Environmental Protection Agency's guidance to develop viable dose estimates based on reasonable maximum exposures (RME). Specifically, activity patterns for population mobility recommended by the U.S. Environmental Protection Agency and presented in the *Exposure Factors Handbook* were utilized. As a result, lifetime risk values for residents were adjusted to account for an exposure duration of 350 days per year for 30 years (i.e., 95<sup>th</sup> percentile). These values are consistent with the California Environmental Quality Act which considers the evaluation of environmental effects of

proposed projects in a manner that reflects both reasonable and feasible assumptions. For body weight and inhalation, the assessment employed average adult values of 70 kilograms and 20 cubic meters per day, respectively.

For carcinogenic exposures resulting from exposure to toxics from the freeway, the summation of risk for the maximum exposed residential receptor totaled 4.60 in one million and will not exceed the SCAQMD significance threshold of 10 in one million.

Discrete variants for daily breathing rates, exposure frequency, and exposure duration were obtained from relevant distribution profiles presented in the OEHHA guidance document entitled <u>Air Toxic Hot Spots Program Risk Assessment Guidelines, Part IV: Technical Support Document</u> for Exposure Assessment and Stochastic Analysis (5) and guidance from SCAQMD.

Table 5-1 summarizes the Exposure Parameters for Residents. Appendix 5.1 includes the detailed emissions and risk calculation outputs. (6)

Exposure Parameter	Units	Residential			
Exposure Frequency	days/year	350			
Exposure Duration	years	70			
Inhalation Rate <sup>a</sup>	L/kg-day	302			
Exposure Duration	Years	30			
Exposure Time hours/day 24					
<sup>a</sup> The residential breathing rate of 302 L/kg-day represents the 80 <sup>th</sup> percentile breathing rate per ARB and consistent with SCAQMD Risk Assessment Procedures for Rules 1401 and 212, the worker breathing rate of 149 L/kg-day is also consistent with SCAQMD Risk Assessment Procedures for Rules 1401 and 212, the school child breathing rate of 5811/kg-day represents the high end 95 <sup>th</sup> percentile breathing rate					

#### TABLE 5-1: EXPOSURE ASSUMPTIONS FOR INDIVIDUAL CANCER RISK

### 5.2 NON-CARCINOGENIC EXPOSURES

An evaluation of the potential noncancerous effects of contaminant exposures was also conducted. Under the point estimate approach, adverse health effects are evaluated by comparing the concentration of each compound with the appropriate Reference Exposure Level (REL). Available REL's presented in the *Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values were considered in the assessment.* 

To quantify noncarcinogenic impacts, the hazard index approach was used. The hazard index assumes that subthreshold exposures adversely affect a specific organ or organ system (i.e., toxicological endpoint). For each discrete pollutant exposure, target organs presented in regulatory guidance were utilized.

To calculate the hazard index, the pollutant concentration or dose is divided by the appropriate toxicity value. For compounds affecting the same toxicological endpoint, this ratio is summed. Where the total equals or exceeds one (i.e., unity), a health hazard is presumed to exist. For chronic exposures, REL's were converted to units expressed in mg/kg/day to accommodate the above referenced intake algorithm. To assess acute noncancer impacts, the maximum pollutant



concentration is divided by the REL for the corresponding averaging time (e.g., 1-hour). No exposure adjustments are considered for short duration exposures.

Appendix 5.1, summarizes the REL's and corresponding reference dose values used in the evaluation of chronic noncarcinogenic and acute exposures. The noncancer hazard quotient for identified compounds generated from each source and a summation for each toxicological endpoint are presented on this table.

For chronic noncarcinogenic effects, the hazard index identified for each toxicological endpoint totaled less than the threshold of 1.0 for all exposure scenarios. For acute exposures, the hazard indices for the identified averaging times did not exceed the threshold of 1.0. Therefore, acute and chronic non-carcinogenic hazards were predicted to be within acceptable limits and are less than significant.

### 5.3 POTENTIAL CANCER AND NON-CANCER RISKS<sup>2</sup>

For carcinogenic exposures the summation of risk for the maximum exposed residential receptor totaled 3.45 in one million, which does not exceed the threshold of 10 in one million. At this same location, non-cancer risks were estimated to be less than 1.0 for all toxicological endpoints.

### 5.4 CRITERIA POLLUTANT EXPOSURES

The State of California has promulgated strict ambient air quality standards for various pollutants. These standards were established to safeguard the public's health and welfare with specific emphasis on protecting those individuals susceptible to respiratory distress, such as asthmatics, the young, the elderly and those with existing conditions which may be affected by increased pollutant concentrations. However, recent research has shown that unhealthful respiratory responses occur with exposures to pollutants at levels that only marginally exceed clean air standards. Table 5-1 presents the CAAQS for the criteria pollutants considered in the assessment.

Pollutant emissions are considered to have a significant effect on the environment if they result in concentrations that create either a violation of an ambient air quality standard, contribute to an existing air quality violation or expose sensitive receptors to substantive pollutant concentrations. Should ambient air quality already exceed existing standards, the SCAQMD has established significance criteria for selected compounds to account for the continued degradation of local air quality. Background concentrations are based upon the highest observed value for the most recent three-year period.

For PM<sub>10</sub> emissions, background concentrations representative of the project area exceed the CAAQS for the 24-hour and annual averaging times. As a result, a significant impact is achieved when pollutant concentrations produce a measurable change over existing background levels.

<sup>2</sup> SCAQMD guidance does not require assessment of the potential health risk to on-site workers. Excerpts from the document OEHHA Air Toxics Hot Spots Program Risk Assessment Guidelines—The Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments (OEHHA 2003), also indicate that it is not necessary to examine the health effects to on-site workers unless required by RCRA (Resource Conservation and Recovery Act) / CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act) or the worker resides on-site.



Although background concentrations exceed the CAAQS annual averaging time for fine particulates, no measurable change criteria currently exists. As a result, the SCAQMD significance threshold of 2.5  $\mu$ g/m<sup>3</sup> for the 24-hour averaging time is used to assess PM<sub>2.5</sub> impacts.

For the CO 1 and 8-hour averaging times and NO<sub>2</sub> 1-hour averaging time, background concentrations are below the current air quality standards. As such, significance is achieved when pollutant concentrations add to existing levels and create an exceedance of the CAAQS. Table 5-2 shows the pollutant concentrations collected at the nearest available monitoring site to the Project for the last three years of available data. Table 5-3 outlines the relevant significance thresholds considered to affect local air quality.

Pollutant	Standard	Health Effects	
Particulates (PM10)	>50 μg/m3 (24 hr avg.) >20 μg/m3 (Annual)	<ol> <li>1) Excess deaths from short-term exposures and the exacerbation of symptoms in sensitive individuals with respiratory disease.</li> <li>2) Excess seasonal declines in pulmonary function especially in children.</li> </ol>	
Particulates (PM2.5)	>12 µg/m3 (Annual)	1) Excess deaths and illness from long-tene exposures and the exacerbation of symptoms sensitive individuals with respiratory and card pulmonary disease.	
Carbon Monoxide (CO)	>9.0 ppm (8 hr avg.) >20.0 ppm (1 hr avg.)	<ol> <li>Aggravation of angina pectoris and other aspects of coronary heart disease.</li> <li>Decreased exercise tolerance in persons with peripheral vascular disease and lung disease.</li> <li>Impairment of central nervous system functions.</li> <li>Possible increased risk to fetuses.</li> </ol>	
Nitrogen Dioxide (NO2)	>0.18 ppm (1 hr avg.)	<ol> <li>Potential to aggravate chronic respiratory disease and respiratory symptoms in sensitive groups.</li> <li>Risk to public health implied by pulmonary and extra-pulmonary biochemical and cellular changes and pulmonary structural changes.</li> </ol>	

#### TABLE 5-1: CALIFORNIA AMBIENT AIR QUALITY STANDARDS

Abbreviations: ppm: parts per million;  $\mu g/m3$ : micrograms per cubic meter.

Source: California Code of Regulations, Title 17, Section 70200.



Pollutant/	Year			
Averaging time	2018	2019	2020	Maximum
Particulates (PM <sub>10</sub> )				
24-Hour	126	99	104	126
Particulates (PM <sub>2.5</sub> )				
24-Hour	50.70	46.7	41	50.70
Carbon Monoxide (CO)				
1-Hour	2.2	1.5	1.9	2.2
8-Hour	2.0	1.2	1.4	2.0
Nitrogen Dioxide (NO <sub>2</sub> )				
1-Hour	0.055	0.056	0.066	0.066

TABLE 5-2: PROJECT AREA AIR QUALITY MONITORING SUMMARY 2012-2014<sup>3</sup>

Note:  $PM_{10}$  concentrations are expressed in micrograms per cubic meter ( $\mu g/m^3$ ). All others are expressed in parts per million (ppm). Source: U.S. Environmental Protection Agency http://www.epa.gov/airdata/ad\_rep\_mon.html

#### TABLE 5-3: SCAQMD AIR QUALITY SIGNIFICANCE THRESHOLDS

Pollutant	Averaging Time	Pollutant Concentration
Particulates (PM10) Particulates (PM2.5)	24-Hours	2.5 μg/m3 (operation)
Particulates (PM10)	Annual	1.0 μg/m3
Carbon Monoxide (CO)	1/8-Hours	SCAQMD is in attainment; impacts are significant if they cause or contribute to an exceedance of the following attainment standards 20 ppm (1-hour) and 9 ppm (8-hour).
Nitrogen Dioxide (NO2)	1-Hour	SCAQMD is in attainment; impacts are significant if they cause or contribute to an exceedance of the following attainment standard 0.18 ppm.

Abbreviations: ppm: parts per million;  $\mu g/m3$ : micrograms per cubic meter Source: South Coast Air Quality Management District.

For the maximum exposed residential receptor, results of the analysis predicted freeway emissions will produce PM10 concentrations of 0.82  $\mu$ g/m3 and 0.49  $\mu$ g/m3 for the 24-hour and annual averaging times. These values will not exceed the SCAQMD significance thresholds of 2.5  $\mu$ g/m3 and 1.0  $\mu$ g/m3, respectively.

For PM2.5, a maximum 24-hour average concentration of 0.33  $\mu$ g/m3 was predicted. This value also will not exceed the identified significance threshold of 2.5  $\mu$ g/m3.



<sup>&</sup>lt;sup>3</sup> PM10, PM2.5, CO, and NO2 data obtained from the SRA23 monitoring station.

The maximum modeled 1-hour average concentration for CO of 0.11 parts per million (ppm), when added to an existing background concentration of 2.2 ppm, would equal a total Project concentration of 2.31 ppm. This would not cause an exceedance of the California Ambient Air Quality Standards (CAAQS) of 20 ppm. For the 8-hour averaging time, the maximum predicted concentration of 0.09 ppm, when added to an existing background level of 2.0 ppm, would equal a total Project concentration of 2.09 ppm. This would not cause an exceedance of the CAAQS of 9 ppm.

For NO2, a maximum one-hour concentration of 0.011 ppm was predicted. This concentration, when added to a background concentration of 0.066 ppm, would equal a total Project concentration of 0.078 ppm. This would not cause an exceedance of the CAAQS of 0.18 ppm.

As noted, short duration (i.e., 1 and 8-hour) exposures associated with both toxic and criteria pollutants are within acceptable limits. As such, less than significant impacts are anticipated to residents who would access and utilize outdoor amenities.





## 6 FINDINGS & CONCLUSIONS

For carcinogenic exposures resulting from exposure to toxics from the freeway, the summation of risk for the maximum exposed residential receptor totaled 4.60 in one million and will not exceed the SCAQMD significance threshold of 10 in one million.

For chronic noncarcinogenic effects, the hazard index identified for each toxicological endpoint totaled less than one. For acute exposures, the hazard indices for the identified averaging times did not exceed unity. Therefore, noncarcinogenic hazards are calculated to be within acceptable limits and a less than significant impact would occur.

For the maximum exposed residential receptor, results of the analysis predicted freeway emissions will produce PM10 concentrations of 0.82  $\mu$ g/m3 and 0.49  $\mu$ g/m3 for the 24-hour and annual averaging times. These values will not exceed the SCAQMD significance thresholds of 2.5  $\mu$ g/m3 and 1.0  $\mu$ g/m3, respectively.

For PM2.5, a maximum 24-hour average concentration of 0.33  $\mu$ g/m3 was predicted. This value also will not exceed the identified significance threshold of 2.5  $\mu$ g/m3.

The maximum modeled 1-hour average concentration for CO of 0.11 parts per million (ppm), when added to an existing background concentration of 2.2 ppm, would equal a total Project concentration of 2.31 ppm. This would not cause an exceedance of the California Ambient Air Quality Standards (CAAQS) of 20 ppm. For the 8-hour averaging time, the maximum predicted concentration of 0.09 ppm, when added to an existing background level of 2.0 ppm, would equal a total Project concentration of 2.09 ppm. This would not cause an exceedance of the CAAQS of 9 ppm.

For NO2, a maximum one-hour concentration of 0.011 ppm was predicted. This concentration, when added to a background concentration of 0.066 ppm, would equal a total Project concentration of 0.078 ppm. This would not cause an exceedance of the CAAQS of 0.18 ppm.

As noted, short duration (i.e., 1 and 8-hour) exposures associated with both toxic and criteria pollutants are within acceptable limits. As such, less than significant impacts are anticipated to residents who would access and utilize outdoor amenities.





## 7 **REFERENCES**

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- 6. South Coast Air Quality Management District. *Final Localized Significance Threshold Methodology.* 2003.
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## 8 CERTIFICATION

The contents of this air study report represent an accurate depiction of the environmental impacts associated with the proposed Vernola Marketplace Apartment Community Project. The information contained in this health risk assessment is based on the best available data at the time of preparation. If you have any questions, please contact me directly at (949) 660-1994.

Haseeb Qureshi Associate Principal URBAN CROSSROADS, INC.

(949) 660-1994 hgureshi@urbanxroads.com

### EDUCATION

Master of Science in Environmental Studies California State University, Fullerton • May, 2010

Bachelor of Arts in Environmental Analysis and Design University of California, Irvine • June, 2006

### **PROFESSIONAL AFFILIATIONS**

AEP – Association of Environmental Planners AWMA – Air and Waste Management Association ASTM – American Society for Testing and Materials

### **PROFESSIONAL CERTIFICATIONS**

Environmental Site Assessment – American Society for Testing and Materials • June, 2013 Planned Communities and Urban Infill – Urban Land Institute • June, 2011 Indoor Air Quality and Industrial Hygiene – EMSL Analytical • April, 2008 Principles of Ambient Air Monitoring – California Air Resources Board • August, 2007 AB2588 Regulatory Standards – Trinity Consultants • November, 2006 Air Dispersion Modeling – Lakes Environmental • June, 2006





APPENDIX 1.1:

### **MERV FILTER EFFICIENCY**


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# **TECHTIPS**

Sales and Marketing Information on Airguard Air Filtration Products

## ASHRAE Standard 52.2 Explained

## ASHRAE Efficiency Ratings Provide New Method Of Measuring Filter Performance

The new ASHRAE Standard 52.2 provides the first industry accepted procedure for measuring filter efficiency by particle size.

The need for a more precise measurement of a filter's ability to remove specific particle sizes has become more critical as concern over indoor air quality, respirable particles, as well as protection of products and processes, has continued to grow.

#### Standard 52.2 Supplements Standard 52.1

Standard 52.2 is not intended to be a replacement for standard 52.1. Both will continue to be relied upon as the industry accepted measures of filter performance. The arrestance and dust holding capacity data provided by Standard 52.1 will remain as valuable performance characteristics. However, it is anticipated that as the fractional efficiency test (52.2) becomes more widely understood and accepted, the atomspheric dust spot efficiency test (52.1) will no longer be utilized.

#### **Particle Size Ranges**

The 52.2 procedure calls for efficiency measurements to be taken on twelve (12) particle size ranges. (See example to right.)

For reporting and rating purposes, these twelve (12) ranges are grouped into three (3) wider ranges:

E<sub>1</sub> - 0.3 - 1.0 Microns E<sub>2</sub> - 1.0 - 3.0 Microns E<sub>3</sub> - 3.0 - 10.0 Microns

#### **Standard 52.2 Test Procedure**

Efficiency measurements are taken on each of the twelve (12) particle size ranges at six (6) different points during the test:

Clean (after (4) increments of dust loading).

After the final resistance has been reached.

Standard synthetic ASHRAE dust, comprised of 72% SAE standard J726 test dust (fine), 23% powdered carbon, and 5% milled cotton linters is used to load the filter in five (5) equal increments.

The six (6) efficiency measurements for each of the twelve (12) particle size ranges (72 total efficiency measurements) are taken by challenging the filter with potassium chloride (KCI) particles. This test aerosol provides particles over the entire range of 0.3 to 10.0 microns required by the test procedure.

The lowest efficiency value (of the six (6) measurements taken throughout the test) for each of the twelve (12) particle size ranges is recorded. (Note: The six (6) readings for each particle size range are not averaged. The lowest efficiency value is used.)

The twelve (12) readings are grouped into the three (3) wider ranges  $(E_1, E_2, E_3)$ .

These values are then averaged to provide an average Particle Size Efficiency (PSE) for each range. The PSE values are used to classify the filter into one of the sixteen (16) Minimum Efficiency Reporting Value (MERV) Ratings.

#### **Standard Test Air Flow Rates**

Standard 52.2 prescribes that the tests are to be run at one of seven (7) air flow rates:

118 FPM (.60 m/s)
246 FPM (1.25 m/s)
295 FPM (1.50 m/s)
374 FPM (1.90 m/s)
492 FPM (2.50 m/s)
630 FPM (3.20 m/s)
748 FPM (3.80 m/s)

#### Example: MERV-14 Rating (see back for MERV Rating Schedule.)

•	5	
Particle Size Range (Microns)	Lowest Efficiency (%) (based on 6 readings over life of test)	Average Particle Size Efficiency (PSE)
.3040 .4055 .5570 .70 - 1.0	74% 82% 87% 92%	84% (E1)
1.0 - 1.3 1.3 - 1.6 1.6 - 2.2 2.2 - 3.0	96% 98% 99% 100%	98% (E <sub>2</sub> )
3.0 - 4.0 4.0 - 5.5 5.5 - 7.0 7.0 - 10.0	100% 100% 100% 100%	100% (E₃)

To determine the MERV Rating, start with the PSE value for E<sub>1</sub>, then E<sub>2</sub>. then E<sub>3</sub> to arrive at the proper rating:

 $E_1$  is 84%: Therefore the maximum rating would be MERV-14.

 $\mathrm{E_2}$  and  $\mathrm{E_3}$  both exceed 90%: therefore the filter receives an MERV-14 Rating



# **Tech** Tips Sales and Marketing Information on Airguard Air Filtration Products

	Minimum Efficiency Reporting Values (MERV) ASHRAE Standard 52.2										
			Ei	<b>E</b> 2	E3						
Group Number		MERV Rating	Average Particle Size Efficiency (PSE) 0.3 - 1.0 Microns	Average Particle Size Efficiency (PSE) 1.0 - 3.0 Microns	Average Particle Size Efficiency (PSE) 3.0 - 10.0 Microns	Average Arrestance (ASHRAE 52.1)	Resistance (In. W.G.)				
	1	MERV 1 MERV 2 MERV 3 MERV 4	- - - -	- - - -	Less than 20% Less than 20% Less than 20% Less than 20%	Less than 65% 65 - 69.9% 70 - 74.9% 75% or greater	0.3" 0.3" 0.3" 0.3"				
	2	MERV 5 MERV 6 MERV 7 MERV 8	- - - -	- - - -	20 - 34.9% 35 - 49.9% 50 - 69.9% 70 - 84.9%	- - - -	0.6" 0.6" 0.6" 0.6"				
	3	MERV 9 MERV 10 MERV 11 MERV 12	- - - -	Less than 50% 50% - 64.9% 65% - 79.9% 80% - 89.9%	85% or greater 85% or greater 85% or greater 90% or greater	- - -	1.0" 1.0" 1.0" 1.0"				
	4	MERV 13 MERV 14 MERV 15 MERV 16	Less than 75% 75% - 84.9% 85% - 94.9% 95% or Greater	90% or greater 90% or greater 90% or greater 95% or greater	90% or greater 90% or greater 90% or greater 95% or greater	- - -	1.4" 1.4" 1.4" 1.4"				

#### Notes:

1. ASHRAE Standard 52.2 tests are to be conducted at one of seven (7) air flow rates:

118 FPM (.60 m/s)	492 FPM (2.50 m/s)
246 FPM (1.25 m/s)	630 FPM (3.20 m/s)
295 FPM (1.50 m/s)	748 FPM (3.80 m/s)
374 FPM (1.90 m/s)	

- 2. The air flow rate at which the filter was tested is included in the MERV rating (MERV-10 @2.5 m/s).
- 3. Filters with an E3 efficiency of less than 20% (MERV-1 through MERV-4) must also be tested for arrestance per ASHRAE Standard 52.1.
- 4. Final resistance must be at least twice the initial resistance at the test air flow rate, or the values shown in the table above, whichever is greater.



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APPENDIX 3.1:

## **EMISSION RATE CALCULATION WORKSHEETS**



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## Running Rate Emission Summary

Criteria	65 mph
СО	1.191
NOx	0.221
PM10	0.0036
PM2.5	0.0034
TOG GAS	0.090
TOG DSL	0.058
DSL Particulate	0.036

## TW/BW Emission Summary

	Total
PM10	0.047
PM2.5	0.019

EMFAC2017 Worksheet (65 mph)

#### EMFAC2017 Emission Rates Region Type: County Region: Riverside (SC) Calendar Year 2023 Season: Annual Vehicle Classification: EMFAC2007 Categories Pollutant Classification: Criteria

Region	CalYr Season	Veh_Class	Fuel	MdlYr	Speed	Population	Wt Frac	CO_RUNEX	CO_RUNEX AVE	NOX_RUNEX	NOx_RUNEX AVE	PM10_RUNEX	PM10_RUNEX AVE	PM10_PMTW	PM10_PMTW_AVE	PM10_PMBW	PM10_PMBW_AVE	PM2_5_RUNEX	PM2_5_RUNEX_AVE	PM2_5_PMTW	PM2_5_PMTW_AVE	PM2_5_PMBW	PM2_5_PMBW_AVE
Riverside	2023 Annual	LDA	GAS	Aggregated	65	772785.866	0.5176	0.4649689	0.24066205	0.0361251	0.01869792	0.0013095	0.00067780	0.0080	0.00414070	0.03675	0.019021336	0.0012041	0.000623218	0.0020	0.001035175	0.01575	0.008152001
Riverside	2023 Annual	LDA	DSL	Aggregated	65	7300.591	0.0049	0.1360851	0.00066542	0.0688731	0.00033677	0.0064704	0.00003164	0.0080	0.00003912	0.03675	0.000179697	0.0061904	0.000030269	0.0020	0.000009779	0.01575	0.000077013
Riverside	2023 Annual	LDA	ELEC	Aggregated	65	12758.747	0.0085	0.0000000	0.00000000	0.0000000	0.00000000	0.0000000	0.00000000	0.0080	0.00000000	0.03675	0.000000000	0.0000000	0.000000000	0.0000	0.000000000	0.01575	0.000134590
Riverside	2023 Annual	LDT1	DSL	Aggregated	65	39.180	0.0000	1.8027814	0.00004731	1.3202729	0.00003465	0.1753101	0.00000460	0.0080	0.00000021	0.03675	0.000000964	0.1677263	0.000004401	0.0020	0.000000052	0.01575	0.000000413
Riverside	2023 Annual	LDT1	GAS	Aggregated	65	82772.070	0.0554	1.1006140	0.06101595	0.1342932	0.00744496	0.0019634	0.00010885	0.0080	0.00044350	0.03675	0.002037350	0.0018054	0.000100087	0.0020	0.000110876	0.01575	0.000873150
Riverside	2023 Annual	LDT1	ELEC	Aggregated	65	485.075	0.0003	0.0000000	0.00000000	0.0000000	0.00000000	0.0000000	0.00000000	0.0080	0.00000000	0.03675	0.000000000	0.0000000	0.000000000	0.0000	0.000000000	0.01575	0.000005117
Riverside	2023 Annual	LDT2	DSL	Aggregated	65	1463.535	0.0010	0.0799661	0.00007839	0.0423331	0.00004150	0.0053842	0.00000528	0.0080	0.00000784	0.03675	0.000036023	0.0051513	0.000005049	0.0020	0.000001960	0.01575	0.000015439
Riverside	2023 Annual	LDT2	GAS	Aggregated	65	252998.013	0.1695	0.6766976	0.11466642	0.0811803	0.01375600	0.0013612	0.00023066	0.0080	0.00135560	0.03675	0.006227288	0.0012516	0.000212088	0.0020	0.000338900	0.01575	0.002668838
Riverside	2023 Annual	LDT2	ELEC	Aggregated	65	2319.020	0.0016	0.0000000	0.00000000	0.0000000	0.00000000	0.0000000	0.00000000	0.0080	0.00000000	0.03675	0.000000000	0.0000000	0.000000000	0.0000	0.000000000	0.01575	0.000024463
Riverside	2023 Annual	LHDT1	DSL	Aggregated	65	20161.772	0.0135	0.6861302	0.00926531	2.8971175	0.03912184	0.0206163	0.00027840	0.0120	0.00016204	0.07644	0.001032224	0.0197244	0.000266353	0.0030	0.000040511	0.03276	0.000442382
Riverside	2023 Annual	LHDT1	GAS	Aggregated	65	20620.883	0.0138	0.7856739	0.01085111	0.2186376	0.00301965	0.0010881	0.00001503	0.0080	0.00011049	0.07644	0.001055729	0.0010004	0.000013817	0.0020	0.000027622	0.03276	0.000452455
Riverside	2023 Annual	LHDT2	DSL	Aggregated	65	7795.761	0.0052	0.5715204	0.00298411	2.3385863	0.01221058	0.0190892	0.00009967	0.0120	0.00006266	0.08918	0.000465640	0.0182634	0.000095360	0.0030	0.000015664	0.03822	0.000199560
Riverside	2023 Annual	LHDT2	GAS	Aggregated	65	3286.375	0.0022	0.4371330	0.00096218	0.1920720	0.00042277	0.0009319	0.00000205	0.0080	0.00001761	0.08918	0.000196295	0.0008569	0.000001886	0.0020	0.000004402	0.03822	0.000084126
Riverside	2023 Annual	MCY	GAS	Aggregated	65	36240.661	0.0243	23.8974258	0.58005843	1.2122672	0.02942517	0.0018504	0.00004491	0.0040	0.00009709	0.01176	0.000285449	0.0017308	0.000042011	0.0010	0.000024273	0.00504	0.000122335
Riverside	2023 Annual	MDV	DSL	Aggregated	65	4324.736	0.0029	0.1216901	0.00035248	0.0531049	0.00015382	0.0044330	0.00001284	0.0080	0.00002317	0.03675	0.000106449	0.0042413	0.000012285	0.0020	0.000005793	0.01575	0.000045621
Riverside	2023 Annual	MDV	GAS	Aggregated	65	208995.205	0.1400	0.8269442	0.11575427	0.1093094	0.01530095	0.0013801	0.00019319	0.0080	0.00111983	0.03675	0.005144204	0.0012691	0.000177652	0.0020	0.000279957	0.01575	0.002204659
Riverside	2023 Annual	MDV	ELEC	Aggregated	65	1262.694	0.0008	0.0000000	0.00000000	0.0000000	0.00000000	0.0000000	0.00000000	0.0080	0.00000000	0.03675	0.000000000	0.0000000	0.000000000	0.0000	0.000000000	0.01575	0.000013320
Riverside	2023 Annual	MH	DSL	Aggregated	65	2591.606	0.0017	0.3171465	0.00055049	4.2241078	0.00733210	0.1710975	0.00029699	0.0160	0.00002777	0.13034	0.000226241	0.1636959	0.000284139	0.0040	0.000006943	0.05586	0.000096960
Riverside	2023 Annual	MH	GAS	Aggregated	65	6006.899	0.0040	1.6784511	0.00675279	0.4191523	0.00168635	0.0012032	0.00000484	0.0120	0.00004828	0.13034	0.000524388	0.0011063	0.000004451	0.0030	0.000012070	0.05586	0.000224738
Riverside	2023 Annual	MHDT	DSL	Aggregated	65	15610.045	0.0105	0.1721541	0.00179989	2.7394489	0.02864124	0.0422517	0.00044175	0.0120	0.00012546	0.13034	0.001362719	0.0404239	0.000422636	0.0030	0.000031365	0.05586	0.000584023
Riverside	2023 Annual	MHDT	GAS	Aggregated	65	2027.159	0.0014	22.2375986	0.03019258	4.0150227	0.00545130	0.0010253	0.00000139	0.0120	0.00001629	0.13034	0.000176966	0.0009428	0.000001280	0.0030	0.000004073	0.05586	0.000075843
Riverside	2023 Annual	HHDT	DSL	Aggregated	65	27819.820	0.0186	0.2266584	0.00422329	1.7336669	0.03230312	0.0585680	0.00109129	0.0360	0.00067078	0.06174	0.001150391	0.0560344	0.001044079	0.0090	0.000167695	0.02646	0.000493025
Riverside	2023 Annual	HHDT	GAS	Aggregated	65	7.255	0.0000	1.3133427	0.00000638	0.4733274	0.00000230	0.0009568	0.00000000	0.0200	0.00000010	0.06174	0.000000300	0.0008797	0.00000004	0.0050	0.00000024	0.02646	0.000000129
Riverside	2023 Annual	HHDT	NG	Aggregated	65	316.985	0.0002	3.8379601	0.00081482	1.4151560	0.00030045	0.0043544	0.00000092	0.0200	0.00000425	0.06174	0.000013108	0.0041660	0.00000884	0.0050	0.000001062	0.02646	0.000005618
Riverside	2023 Annual	OBUS	DSL	Aggregated	65	351.644	0.0002	0.1813420	0.00004271	2.2159239	0.00052189	0.0420193	0.00000990	0.0120	0.00000283	0.13034	0.000030698	0.0402015	0.000009468	0.0030	0.000000707	0.05586	0.000013156
Riverside	2023 Annual	OBUS	GAS	Aggregated	65	588.343	0.0004	1.1275205	0.00044430	0.4305041	0.00016964	0.0007495	0.0000030	0.0120	0.00000473	0.13034	0.000051361	0.0006892	0.000000272	0.0030	0.000001182	0.05586	0.000022012
Riverside	2023 Annual	SBUS	DSL	Aggregated	65	1154.013	0.0008	5.6847891	0.00439389	6.3563008	0.00491292	0.0303655	0.00002347	0.0120	0.00000928	0.74480	0.000575671	0.0290519	0.000022455	0.0030	0.000002319	0.3192	0.000246716
Riverside	2023 Annual	SBUS	GAS	Aggregated	65	490.882	0.0003	0.6638093	0.00021825	0.2677076	0.00008802	0.0004085	0.00000013	0.0080	0.00000263	0.74480	0.000244873	0.0003756	0.000000123	0.0020	0.00000658	0.31920	0.000104946
Riverside	2023 Annual	UBUS	DSL	Aggregated	65	1.106	0.0000	0.0182046	0.00000001	0.0135842	0.00000001	0.0135842	0.00000001	0.0120	0.00000001	0.13035	0.000000097	0.0129966	0.00000010	0.0030	0.000000002	0.05587	0.000000041
Riverside	2023 Annual	UBUS	GAS	Aggregated	65	164.455	0.0001	0.0901314	0.00000993	0.0759323	0.0000836	0.0007943	0.0000009	0.0095	0.00000105	0.10510	0.000011577	0.0007303	0.00000080	0.0024	0.00000263	0.04504	0.000004961
Riverside	2023 Annual	UBUS	ELEC	Aggregated	65	5.058	0.0000	0.0000000	0.0000000	0.0000000	0.00000000	0.0000000	0.00000000	0.0095	0.00000000	0.00000	0.000000000	0.0000000	0.000000000	0.0000	0.000000000	0.00000	0.000000000
Riverside	2023 Annual	UBUS	NG	Aggregated	65	308.478	0.0002	21.3585672	0.00441287	0.1952836	0.00004035	0.0051217	0.0000106	0.0095	0.0000197	0.10510	0.000021715	0.0049001	0.000001012	0.0024	0.00000493	0.04504	0.00009306
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						1493054	1.0		1.191	1	0.221		0.0036	1	0.008		0.040		0.0034	1	0.002		0.017

EMFAC2017 Worksheet (65 mph)

# EMFAC2017 Emission Rates Region Type: County Region: Riverside (SC) Calendar Year: 2023 Season: Annual Vehicle Classification: EMFAC2007 Categories Pollutant Classification: TOG GAS

Region	CalYr 3	Season	Veh_Class	Fuel	MdlYr	Speed	Population	Wt Frac	TOG_RUNEX	TOG_RUNEX AVE
						(miles/hr)	(vehicles)		(gms/mile)	(gms/mile)
Riverside	2023 A	nnual	LDA	GAS	Aggregated	65	772785.866	0.5572	0.0114327	0.0064
Riverside	2023 A	nnual	LDT1	GAS	Aggregated	65	82772.070	0.0597	0.0402512	0.0024
Riverside	2023 A	nnual	LDT2	GAS	Aggregated	65	252998.013	0.1824	0.0205177	0.0037
Riverside	2023 A	nnual	LHDT1	GAS	Aggregated	65	20620.883	0.0149	0.0414682	0.0006
Riverside	2023 A	nnual	LHDT2	GAS	Aggregated	65	3286.375	0.0024	0.0251380	0.0001
Riverside	2023 A	nnual	MCY	GAS	Aggregated	65	36240.661	0.0261	2.7713100	0.0724
Riverside	2023 A	nnual	MDV	GAS	Aggregated	65	208995.205	0.1507	0.0282720	0.0043
Riverside	2023 A	nnual	MH	GAS	Aggregated	65	6006.899	0.0043	0.0772430	0.0003
Riverside	2023 A	nnual	MHDT	GAS	Aggregated	65	2027.159	0.0015	0.0844137	0.0001
Riverside	2023 A	nnual	HHDT	GAS	Aggregated	65	7.255	0.0000	0.6228095	0.0000
Riverside	2023 A	nnual	OBUS	GAS	Aggregated	65	588.343	0.0004	0.0727389	0.0000
Riverside	2023 A	nnual	SBUS	GAS	Aggregated	65	490.882	0.0004	0.0000000	0.0000
Riverside	2023 A	nnual	UBUS	GAS	Aggregated	65	164.455	0.0001	0.0070590	0.0000
							1386984	1.0	[	0.090

EMFAC2017 Emission Rates Region Type: County Region: Riverside (SC) Calendar Year: 2023 Season: Annual Vehicle Classification: EMFAC2007 Categories Pollutant Classification: TOG DSL

Region	CalYr	Season	Veh_Class	Fuel	MdlYr	Speed (miles/hr)	Population (vehicles)	Wt Frac	TOG_RUNEX (gms/mile)	TOG_RUNEX AVE (gms/mile)
Riverside	2023	Annual	LDA	DSL	Aggregated	65	7300.591	0.0824	0.0111967	0.0009
Riverside	2023	Annual	LDT1	DSL	Aggregated	65	39.180	0.0004	0.2570578	0.0001
Riverside	2023	Annual	LDT2	DSL	Aggregated	65	1463.535	0.0165	0.0113185	0.0002
Riverside	2023	Annual	LHDT1	DSL	Aggregated	65	20161.772	0.2275	0.0998925	0.0227
Riverside	2023	Annual	LHDT2	DSL	Aggregated	65	7795.761	0.0880	0.0841316	0.0074
Riverside	2023	Annual	MDV	DSL	Aggregated	65	4324.736	0.0488	0.0082200	0.0004
Riverside	2023	Annual	MH	DSL	Aggregated	65	2591.606	0.0292	0.0774660	0.0023
Riverside	2023	Annual	MHDT	DSL	Aggregated	65	15610.045	0.1762	0.0525548	0.0093
Riverside	2023	Annual	HHDT	DSL	Aggregated	65	27819.820	0.3139	0.0424097	0.0133
Riverside	2023	Annual	OBUS	DSL	Aggregated	65	351.644	0.0040	0.0563933	0.0002
Riverside	2023	Annual	SBUS	DSL	Aggregated	65	1154.013	0.0130	0.0566417	0.0007
Riverside	2023	Annual	UBUS	DSL	Aggregated	65	1.106	0.0000	0.0166242	0.0000
							88614	1.0	[	0.058

EMFAC2017 Emission Rates Region Type: County Region: Riverside (SC) Calendar Year: 2023 Season: Annual Vehicle Classification: EMFAC2007 Categories Pollutant Classification: DSL Particulate

Region	CalYr Season	Veh_Class	Fuel	MdlYr	Speed (miles/hr)	Population (vehicles)	Wt Frac	PM10_RUNEX (gms/mile)	PM10_RUNEX AVE (gms/mile)
Riverside	2023 Annual	LDA	DSL	Aggregated	65	7300.591	0.0824	0.0064704	0.0005
Riverside	2023 Annual	LDT1	DSL	Aggregated	65	39.180	0.0004	0.1753101	0.0001
Riverside	2023 Annual	LDT2	DSL	Aggregated	65	1463.535	0.0165	0.0053842	0.0001
Riverside	2023 Annual	LHDT1	DSL	Aggregated	65	20161.772	0.2275	0.0206163	0.0047
Riverside	2023 Annual	LHDT2	DSL	Aggregated	65	7795.761	0.0880	0.0190892	0.0017
Riverside	2023 Annual	MDV	DSL	Aggregated	65	4324.736	0.0488	0.0044330	0.0002
Riverside	2023 Annual	MH	DSL	Aggregated	65	2591.606	0.0292	0.1710975	0.0050
Riverside	2023 Annual	MHDT	DSL	Aggregated	65	15610.045	0.1762	0.0585680	0.0103
Riverside	2023 Annual	HHDT	DSL	Aggregated	65	27819.820	0.3139	0.0422517	0.0133
Riverside	2023 Annual	OBUS	DSL	Aggregated	65	351.644	0.0040	0.0420193	0.0002
Riverside	2023 Annual	SBUS	DSL	Aggregated	65	1154.013	0.0130	0.0303655	0.0004
Riverside	2023 Annual	UBUS	DSL	Aggregated	65	1.106	0.0000	0.0135842	0.0000
						88614	1.0		0.036

#### I-215/SR-60 Freeway

#### **CO Emissions**

Number of Sources	26
Link Length (meters)	1181
Volume/Baseline (VPH)	7792
Pollutant Mass Emission Rate (gr/mi)	1.191

Pollutant Emission Rate (gr/sec)	1.89214
Pollutant Emission Rate (gr/sec/source)	7.28E-02

#### I-215/SR-60 Freeway

#### **NOx Emissions**

Number of Sources	26
Link Length (meters)	1181
Volume/Baseline (VPH)	7792
Pollutant Mass Emission Rate (gr/mi)	0.221

Pollutant Emission Rate (gr/sec)	0.35171
Pollutant Emission Rate (gr/sec/source)	1.35E-02

#### I-215/SR-60 Freeway

#### **PM10 Emissions**

Number of Sources	26
Link Length (meters)	1181
Volume/Baseline (VPH)	7792
Particle Size Multiplier (g/mi)	1.0
Road Surface Silt Loading (g/m2)	0.02
Average Vehicle Weight (tons)	2.4
Emfac2017 Emissions Run (g/mi)	0.0055
Emfac2017 Emissions TW/BW (g/mi)	0.047
PM10 Reentrainment Mass Emission Rate (gr/mi)	0.122

For PM10 Reentrainment: Mass Emission Rate (gr/mile) = ((Particulate PM10 Base Emission Factor) x (Road Surface Silt Loading)<sup>0.91</sup> x (Gross Vehicle Weight)<sup>1.02</sup>) + (Emfac2014 Emissions) Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

PM10 Reentrainment Emission Rate (gr/sec)	0.193726
PM10 Reentrainment Emission Rate (gr/sec/source)	7.45E-03

#### I-215/SR-60 Freeway

#### **PM2.5** Emissions

Number of Sources	26
Link Length (meters)	1181
Volume/Baseline (VPH)	6333
Particle Size Multiplier (g/mi)	0.25
Road Surface Silt Loading (g/m2)	0.02
Average Vehicle Weight (tons)	2.4
Emfac2017 Emissions Run (g/mi)	0.0052
Emfac2017 Emissions TW/BW (g/mi)	0.019
PM2.5 Reentrainment Mass Emission Rate (gr/mi)	0.042

For PM2.5 Reentrainment: Mass Emission Rate (gr/mile) = ((Particulate PM2.5 Base Emission Factor) x (Road Surface Silt Loading)<sup>0.91</sup> x (Gross Vehicle Weight)<sup>1.02</sup>) + (Emfac2014 Emissions) Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

PM2.5 Reentrainment Emission Rate (gr/sec) PM2.5 Reentrainment Emission Rate (gr/sec/source)

0.053663
2.06E-03

#### I-215/SR-60 Freeway

#### **TOG GAS Emissions**

Number of Sources	26
Link Length (meters)	1181
Volume/Baseline (VPH)	6085
Pollutant Mass Emission Rate (gr/mi)	0.003863

Pollutant Emission Rate (gr/sec)	0.00479
Pollutant Emission Rate (gr/sec/source)	1.84E-04

#### I-215/SR-60 Freeway

#### **TOG DSL Emissions**

Number of Sources	26
Link Length (meters)	1181
Volume/Baseline (VPH)	248
Pollutant Mass Emission Rate (gr/mi)	0.014069

Pollutant Emission Rate (gr/sec)	0.00071
Pollutant Emission Rate (gr/sec/source)	2.74E-05

#### I-215/SR-60 Freeway

#### **DSL Particulate Emissions**

Number of Sources	26
Link Length (meters)	1181
Volume/Baseline (VPH)	248
Pollutant Mass Emission Rate (gr/mi)	0.036

Pollutant Emission Rate (gr/sec)	0.00184
Pollutant Emission Rate (gr/sec/source)	7.09E-05

All DSL	1492740 58533				
	Diesel Fleet Mix (weight fraction)	[	0.0392		
	Link Counts	AADT	VPH all	VPH gas	VPH diesel
	I-15 Freeway	152000	6333	6085	248

APPENDIX 4.1:

## AERMOD MODEL INPUT/OUTPUT FILE



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```
** Lakes Environmental AERMOD MPI
**
**
** AERMOD INPUT PRODUCED BY:
** AERMOD VIEW VER. 10.0.1
** LAKES ENVIRONMENTAL SOFTWARE INC.
** DATE: 11/11/2021
** FILE: C:\LAKES\AERMOD VIEW\14172 HRA\CO\CO.ADI
**
**
**
** AERMOD CONTROL PATHWAY
**
**
CO STARTING
  TITLEONE C:\LAKES\AERMOD VIEW\14172 HRA\CO\CO.ISC
  MODELOPT DFAULT CONC
  AVERTIME 1 8
  URBANOPT 2189641
  POLLUTID CO
  RUNORNOT RUN
  ERRORFIL CO.ERR
CO FINISHED
**
** AERMOD SOURCE PATHWAY
**
**
SO STARTING
** SOURCE LOCATION **
** SOURCE ID - TYPE - X COORD. - Y COORD. **
** _____
                                               -----
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE1
** DESCRSRC I-15 FREEWAY
** PREFIX
** LENGTH OF SIDE = 46.00
** CONFIGURATION = ADJACENT
** EMISSION RATE = 1.89214
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 2
** 449288.372, 3758373.924, 188.51, 3.49, 21.40
** 449298.585, 3759554.578, 201.92, 3.49, 21.40
** _____
```

	LOCATION	L0000001	VOLUME	449288	.571	3758396	5.923	188.77	
	LOCATION	L0000002	VOLUME	449288	.969	3758442	2.921	189.29	
	LOCATION	10000003	VOLUME	449289	. 367	3758488	3.920	189.82	
		1 9999994	VOLUME	449289	765	3758534	L 918	190 34	
		1 0000000		119299	163	3758580	916	190.24	
		1 00000005		119290	561	3758626	5 914	191 38	
		10000000		110200	058	3758672	0 013	101 01	
				449290	256	2750710	011	102 /2	
		L0000000		449291		2750710	000	102.45	
	LOCATION	L0000009		449291	154	2750010	F. 909	192.95	
	LUCATION	L0000010	VOLUME	449292	.152	3/58816	.908	193.4/	
	LUCATION	L0000011	VOLUME	449292	.550	3/58850	.906	194.00	
	LOCATION	L0000012	VOLUME	449292	.948	3/58902	2.904	194.52	
	LOCATION	L0000013	VOLUME	449293	.346	3758948	3.902	195.04	
	LOCATION	L0000014	VOLUME	449293	.744	3758994	.901	195.56	
	LOCATION	L0000015	VOLUME	449294	.142	3759040	.899	196.09	
	LOCATION	L0000016	VOLUME	449294	.540	3759086	5.897	196.61	
	LOCATION	L0000017	VOLUME	449294	.938	3759132	2.895	197.13	
	LOCATION	L0000018	VOLUME	449295	.335	3759178	8.894	197.65	
	LOCATION	L0000019	VOLUME	449295	.733	3759224	.892	198.18	
	LOCATION	L0000020	VOLUME	449296	.131	3759276	.890	198.70	
	LOCATION	L0000021	VOLUME	449296	.529	3759316	5.889	199.22	
	LOCATION	L0000022	VOLUME	449296	.927	3759362	2.887	199.74	
	LOCATION	L0000023	VOLUME	449297	.325	3759408	8.885	200.27	
	LOCATION	L0000024	VOLUME	449297	.723	3759454	.883	200.79	
	LOCATION	L0000025	VOLUME	449298	.121	3759500	.882	201.31	
	LOCATION	L0000026	VOLUME	449298	.519	3759546	5.880	201.83	
**	END OF LI	INE VOLUME SOL	JRCE ID =	SLINE1					
**	SOURCE PA	ARAMETERS **							
**	LINE VOLU	IME SOURCE ID	= SLINE1						
	SRCPARAM	10000001	0.0727746	5154	3.	49	21.40	) 3.	25
	SRCPARAM	1 0000002	0.0727746	5154	3	49	21.40	) 3.	25
	SRCPARAM	1 0000003	0.0727746	5154	3	49	21.40	) 3.	25
	SRCPARAM	1 00000004	0.072774	5154	3	49	21.40	3	25
	SRCPARAM	1 0000000	0 072774	5154	3	49	21 40	)	25
	SRCPARAM	1 00000005	0.072774	5154	3	49	21.40	, J. ) 3	25
	SRCPARAM	1 0000000	0.072774	5154	ן ב א	19	21.40	, J. N 3	25
		1 00000007	0.0727740	5157	2	/9	21.40	, J. N 3	25
		10000000	0.0727740	5157	2	10	21.40	, J. N 3	25
	SPCDADAM	10000009	0.0727740	5154	). 2	49 40	21.40	, . 	25
	SECHARAM		0.0727740	5154 5154	י כ ר	49	21.40	, J. J. J.	25
	SECHARAM		0.0727740	5154 5154	י כ ר	49	21.40	, J. J. J.	25
	SRCPARAM	L0000012	0.0727740	0104 -154	. C	49	21.40	, 5. , 7	25
	SRCPARAM	L0000013	0.0727746	5154	3. ר	49	21.40	) 3. N 7	25
	SRCPARAM	L0000014	0.0/2//46	5154	3.	.49	21.40	j 3.	25
	SKCPAKAM	L0000015	0.0/2//46	5154	. ک ح	49	21.40	y 3.	25
	SKCPARAM	L0000010	0.0/2//40	5154	3.	49	21.40	y 3.	25
	SKCPARAM	L000001/	0.0/2//46	5154	3.	.49	21.40	3.	25
	SKCPARAM	L0000018	0.0/2//40	5154	3.	.49	21.40	3.	25
	SKCPARAM	L0000019	0.0/27746	5154	3.	.49	21.40	) 3.	25
	SRCPARAM	L0000020	0.0/27746	5154	3.	.49	21.40	) 3.	25
	SRCPARAM	L0000021	0.0727746	5154	3.	.49	21.40	) 3.	25

SRCPARAM L0000022 0.0727746154 3.49 21.40 3.25 3.49 21.40 3.25 SRCPARAM L0000023 0.0727746154 SRCPARAM L0000024 0.0727746154 3.49 21.40 3.25 3.49 SRCPARAM L0000025 0.0727746154 21.40 3.25 SRCPARAM L0000026 0.0727746154 3.49 21.40 3.25 \*\* \_\_\_\_\_ URBANSRC ALL SRCGROUP ALL SO FINISHED \*\* **\*\* AERMOD RECEPTOR PATHWAY** \*\* \*\* RE STARTING INCLUDED CO.ROU **RE FINISHED** \*\* **\*\* AERMOD METEOROLOGY PATHWAY** \*\* \*\* ME STARTING SURFFILE ..\KRAL\_V9\_ADJU\KRAL\_V9.SFC PROFFILE ..\KRAL\_V9\_ADJU\KRAL\_V9.PFL SURFDATA 3171 2012 UAIRDATA 3190 2012 PROFBASE 245.0 METERS ME FINISHED \*\* **\*\* AERMOD OUTPUT PATHWAY** \*\*\*\*\*\*\*\*\*\*\* \*\* \*\* OU STARTING **RECTABLE ALLAVE 1ST RECTABLE 1 1ST RECTABLE 8 1ST \*\*** AUTO-GENERATED PLOTFILES PLOTFILE 1 ALL 1ST CO.AD\01H1GALL.PLT 31 PLOTFILE 8 ALL 1ST CO.AD\08H1GALL.PLT 32 SUMMFILE CO.SUM OU FINISHED

\*\*\* Message Summary For AERMOD Model Setup \*\*\*

----- Summary of Total Messages ------A Total of 0 Fatal Error Message(s) A Total of 2 Warning Message(s) A Total of 0 Informational Message(s) \*\*\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*\*\* \*\*\* NONE \*\*\* \*\*\*\*\*\* \*\*\*\*\*\*\* WARNING MESSAGES ME W186 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used 130 0.50 ME W187 130 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET \*\*\*\*\*\*\*\*\*\*\* \*\*\* SETUP Finishes Successfully \*\*\* ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 HRA\CO\CO.ISC \*\*\* 11/11/21 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* \*\*\* 12:18:15 PAGE 1 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ U\* \*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\* - - -\*\*Model Is Setup For Calculation of Average CONCentration Values. -- DEPOSITION LOGIC --\*\*NO GAS DEPOSITION Data Provided. \*\*NO PARTICLE DEPOSITION Data Provided. \*\*Model Uses NO DRY DEPLETION. DRYDPLT = F \*\*Model Uses NO WET DEPLETION. WETDPLT = F\*\*Model Uses URBAN Dispersion Algorithm for the SBL for 26 Source(s), for Total of 1 Urban Area(s): Urban Population = 2189641.0 ; Urban Roughness Length = 1.000 m \*\*Model Uses Regulatory DEFAULT Options: 1. Stack-tip Downwash. 2. Model Accounts for ELEVated Terrain Effects. 3. Use Calms Processing Routine.

4. Use Missing Data Processing Routine. 5. No Exponential Decay. 6. Urban Roughness Length of 1.0 Meter Assumed. \*\*Other Options Specified: ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET CCVR Sub - Meteorological data includes CCVR substitutions TEMP Sub - Meteorological data includes TEMP substitutions \*\*Model Assumes No FLAGPOLE Receptor Heights. \*\*The User Specified a Pollutant Type of: CO \*\*Model Calculates 2 Short Term Average(s) of: 1-HR 8-HR \*\*This Run Includes: 26 Source(s); 1 Source Group(s); and 441 Receptor(s) with: 0 POINT(s), including 0 POINTCAP(s) and 0 POINTHOR(s) and: 26 VOLUME source(s) and: Ø AREA type source(s) 0 LINE source(s) and: 0 RLINE/RLINEXT source(s) and: 0 OPENPIT source(s) and: and: 0 BUOYANT LINE source(s) with 0 line(s) \*\*Model Set To Continue RUNning After the Setup Testing. \*\*The AERMET Input Meteorological Data Version Date: 16216 \*\*Output Options Selected: Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword) Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword) Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword) \*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours m for Missing Hours b for Both Calm and Missing Hours Base Elev. for Pot. Temp. Profile (m MSL) = \*\*Misc. Inputs: 245.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0 Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+07

Output Units = MICROGRAMS/M\*\*3 \*\*Approximate Storage Requirements of Model = 3.6 MB of RAM. \*\*Input Runstream File: aermod.inp \*\*Output Print File: aermod.out \*\*Detailed Error/Message File: CO.ERR \*\*File for Summary of Results: CO.SUM ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 HRA\CO\CO.ISC \*\*\* 11/11/21 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* \*\*\* 12:18:15 PAGE 2 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ U\* \*\*\* VOLUME SOURCE DATA \*\*\* NUMBER EMISSION RATE BASE RELEASE INIT. INIT. URBAN EMISSION RATE PART. SOURCE (GRAMS/SEC) X Y ELEV. HEIGHT SY SZ SOURCE SCALAR VARY ID CATS. (METERS) (METERS) (METERS) (METERS) (METERS) ΒY (METERS) L0000001 0 0.72775E-01 449288.6 3758396.9 188.8 3.49 21.40 3.25 YES 0.72775E-01 449289.0 3758442.9 L0000002 0 189.3 3.49 21.40 3.25 YES 0.72775E-01 449289.4 3758488.9 L0000003 0 189.8 3.49 21.40 3.25 YES 0.72775E-01 449289.8 3758534.9 L0000004 0 190.3 3.49 21.40 3.25 YES L0000005 0.72775E-01 449290.2 3758580.9 190.9 3.49 21.40 0 3.25 YES 0.72775E-01 449290.6 3758626.9 3.49 21.40 L0000006 0 191.4 3.25 YES L0000007 0.72775E-01 449291.0 3758672.9 3.49 21.40 0 191.9 3.25 YES 0.72775E-01 449291.4 3758718.9 L0000008 0 192.4 3.49 21.40 3.25 YES L0000009 0 0.72775E-01 449291.8 3758764.9 193.0 3.49 21.40

3 25 VES						
L0000010	0	0.72775E-01	449292.2 3758810.9	193.5	3.49	21.40
3.25 YES	·	•••••••				
L0000011	0	0.72775E-01	449292.5 3758856.9	194.0	3.49	21.40
3.25 YES						
L0000012	0	0.72775E-01	449292.9 3758902.9	194.5	3.49	21.40
3.25 YES						
L0000013	0	0.72775E-01	449293.3 3758948.9	195.0	3.49	21.40
3.25 YES						
L0000014	0	0.72775E-01	449293.7 3758994.9	195.6	3.49	21.40
3.25 YES						
L0000015	0	0.72775E-01	449294.1 3759040.9	196.1	3.49	21.40
3.25 YES						
L0000016	0	0.72775E-01	449294.5 3759086.9	196.6	3.49	21.40
3.25 YES						
L0000017	0	0.72775E-01	449294.9 3759132.9	197.1	3.49	21.40
3.25 YES	_					
L0000018	0	0.72775E-01	449295.3 3759178.9	197.7	3.49	21.40
3.25 YES						
L0000019	0	0./2//5E-01	449295./ 3/59224.9	198.2	3.49	21.40
3.25 YES	0	0 707755 04	440206 4 2750270 0	100 7	2 40	21 40
	0	0./2//5E-01	449296.1 3/592/0.9	198.7	3.49	21.40
3.25 YES	0	0 777755 01	440206 E 27E0216 0	100.2	2 40	21 40
	Ø	0.72775E-01	449290.5 5/59510.9	199.2	5.49	21.40
10000022	0	0 72775E_01	110206 0 3750362 0	100 7	3 10	21 10
2 25 VES	0	0.727751-01	449290.9 5759502.9	199.7	5.49	21.40
10000023	Q	0 72775E-01	449297 3 3759408 9	200 3	3 49	21 40
3.25 YES	Ũ	01/2//92 01	115257.5 5755100.5	20019	5.15	21.10
L0000024	0	0.72775E-01	449297.7 3759454.9	200.8	3.49	21.40
3.25 YES	Ū	01/2//92 02	11525747 575515145	20010	5115	
L0000025	0	0.72775E-01	449298.1 3759500.9	201.3	3.49	21.40
3.25 YES	-					
L0000026	0	0.72775E-01	449298.5 3759546.9	201.8	3.49	21.40
3.25 YES						
★ *** AERMOD -	VERSIC	N 19191 ***	*** C:\LAKES\AERM	10D VIEW\141	.72 HRA\C	O\CO.ISC
		***	11/11/21			
*** AERMET - V	ERSION	16216 ***	***			
		***	12:18:15			

PAGE 3
\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS

\*\*\*

SRCGROUP ID

SOURCE IDs

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ALL L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , , L0000008 L0000006 , L0000007 , L0000009 , L0000011 , L0000010 , L0000012 , L0000013 ر L0000014 , L0000015 , L0000016 ر , L0000019 , L0000020 , L0000021 L0000017 , L0000018 , , L0000024 L0000022 , L0000023 ر L0000025 , L0000026 ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 HRA\CO\CO.ISC \*\*\* 11/11/21 16216 \*\*\* \*\*\* \*\*\* AERMET - VERSION \*\*\* 12:18:15 PAGE 4 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ U\* \*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\* URBAN ID SOURCE IDs URBAN POP \_ , L0000002 2189641. L0000001 , L0000003 , L0000004 , , L0000006 , L0000007 L0000005 ر L0000008 ر , L0000011 L0000009 , L0000010 , L0000012 , L0000013 ر , L0000016 , L0000015 L0000014 ر , L0000018 , L0000021 L0000017 , L0000019 , L0000020 , L0000022 , L0000023 , L0000024 ر , L0000026 L0000025 ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 HRA\CO\CO.ISC \*\*\* 11/11/21 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* \*\*\* 12:18:15 PAGE 5 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ U\* \*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\* (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG) (METERS)

( 449368.	0, 3758763.	5, 192.6,	195.0,	0.0);	( 449371.9,
3758763.5,	192.2,	195.0,	0.0);		
( 449375.	8, 3758763.	5, 191.8,	195.0,	0.0);	( 449379.6,
3758763.5,	191.4,	195.0,	0.0);		
( 449383.	5, 3758763.	5, 191.2,	195.0,	0.0);	( 449387.4,
3/58/63.5,	190.9,	195.0,	0.0);		( 440205 1
( 449391.	100 /	100 /	190.6,	0.0);	( 449395.1,
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3758763.5.	189.9.	189.9.	0.0):	0.0/,	( ++)+02.0;
( 449406.	7, 3758763.	189.6.	189.6.	0.0);	( 449410.6.
3758763.5,	189.4,	189.4,	0.0);		(
( 449414.	5, 3758763.	5, 189.3,	189.3,	0.0);	( 449418.3,
3758763.5,	189.1,	189.1,	0.0);		
( 449422.	2, 3758763.	5, 189.0,	189.0,	0.0);	( 449426.1,
3758763.5,	188.9,	188.9,	0.0);		
( 449429.	9, 3758763.	5, 188.7,	188.7,	0.0);	( 449433.8,
3758763.5,	188.6,	188.6,	0.0);		
( 449437.	7, 3758763.	5, 188.5,	188.5,	0.0);	( 449441.5,
3/58/63.5,	188.4,	188.4,	0.0);	0.0	( 440260 0
( 449445.	4, 3/58/63.	5, 188.3,	188.3,	0.0);	( 449368.0,
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( 449379	6 3758777 (	191 A	195 Ø	9 9).	( 449383 5
( 115575.	, <i>5,50,7,</i>		199.09	0.0/5	( 11000000)
3758777.6.	190.8.	195.0.	0.0):		•
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3758777.6, (449387. 3758777.6, (449395. 3758777.6, (449402. 3758777.6,	190.8, 4, 3758777.0 190.3, 1, 3758777.0 189.7, 8, 3758777.0 189.2,	195.0, 6, 190.5, 195.0, 6, 190.0, 195.0, 6, 189.5, 195.0,	0.0); 195.0, 0.0); 195.0, 0.0); 195.0, 0.0);	0.0); 0.0); 0.0);	( 449391.2, ( 449399.0, ( 449406.7,
3758777.6, (449387. 3758777.6, (449395. 3758777.6, (449402. 3758777.6, (449410.	190.8, 4, 3758777.6 190.3, 1, 3758777.6 189.7, 8, 3758777.6 189.2, 6, 3758777.6	195.0, 6, 190.5, 195.0, 6, 190.0, 195.0, 6, 189.5, 195.0, 6, 189.0,	0.0); 195.0, 0.0); 195.0, 0.0); 195.0, 0.0); 189.0,	0.0); 0.0); 0.0); 0.0);	<pre>( 449391.2, ( 449399.0, ( 449406.7, ( 449414.5,</pre>
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3758777.6, (449387. 3758777.6, (449395. 3758777.6, (449402. 3758777.6, (449410. 3758777.6, (449418. 3758777.6, (449426. 3758777.6, (449433. 3758777.6, (449441. 3758777.6, (449368. 3758791.6, (449383.	190.8, 4, 3758777.0 190.3, 1, 3758777.0 189.7, 8, 3758777.0 189.2, 6, 3758777.0 188.9, 3, 3758777.0 188.6, 1, 3758777.0 188.4, 8, 3758777.0 188.1, 5, 3758777.0 188.0, 0, 3758791.0 191.5, 5, 3758791.0	195.0, 6, 190.5, 195.0, 6, 190.0, 195.0, 6, 189.5, 195.0, 6, 189.0, 188.9, 6, 188.8, 188.6, 6, 188.5, 188.4, 6, 188.2, 188.1, 6, 188.0, 6, 192.6, 195.0, 6, 191.2,	0.0); 195.0, 0.0); 195.0, 0.0); 195.0, 0.0); 189.0, 0.0); 188.8, 0.0); 188.5, 0.0); 188.2, 0.0); 188.2, 0.0); 192.6, 0.0); 195.0, 0.0); 195.0,	0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0);	<ul> <li>( 449391.2,</li> <li>( 449399.0,</li> <li>( 449406.7,</li> <li>( 449414.5,</li> <li>( 449422.2,</li> <li>( 449422.2,</li> <li>( 449437.7,</li> <li>( 449445.4,</li> <li>( 449371.9,</li> <li>( 449379.6,</li> <li>( 449387.4,</li> </ul>
3758777.6, (449387. 3758777.6, (449395. 3758777.6, (449402. 3758777.6, (449410. 3758777.6, (449418. 3758777.6, (449426. 3758777.6, (449433. 3758777.6, (449441. 3758777.6, (449368. 3758791.6, (449383. 3758791.6, (449383.	190.8, 4, 3758777.0 190.3, 1, 3758777.0 189.7, 8, 3758777.0 189.2, 6, 3758777.0 188.9, 3, 3758777.0 188.6, 1, 3758777.0 188.4, 8, 3758777.0 188.1, 5, 3758777.0 188.0, 0, 3758791.0 192.3, 8, 3758791.0 191.5, 5, 3758791.0	195.0, 6, 190.5, 195.0, 6, 190.0, 195.0, 6, 189.5, 195.0, 6, 189.0, 188.9, 6, 188.8, 188.6, 6, 188.2, 188.4, 6, 188.2, 188.4, 6, 188.2, 188.1, 6, 188.0, 6, 192.6, 195.0, 6, 191.9, 195.0, 6, 191.2, 191.0, 6, 100, 10,	0.0); 195.0, 0.0); 195.0, 0.0); 195.0, 0.0); 189.0, 0.0); 188.8, 0.0); 188.5, 0.0); 188.2, 0.0); 188.2, 0.0); 192.6, 0.0); 195.0, 0.0); 195.0, 0.0); 195.0, 0.0); 195.0, 0.0); 192.6, 0.0); 195.0, 0.0); 192.6, 0.0); 195.0, 0.0); 192.6, 0.0); 195.0, 0.0]; 195.0, 0.0]; 195.0, 0.0]; 195.0, 0.0]; 195.0, 0.0];	0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0);	<pre>( 449391.2, ( 449399.0, ( 449406.7, ( 449414.5, ( 449422.2, ( 449422.2, ( 449429.9, ( 449437.7, ( 449445.4, ( 449371.9, ( 449379.6, ( 449387.4,</pre>
3758777.6, (449387. 3758777.6, (449395. 3758777.6, (449402. 3758777.6, (449410. 3758777.6, (449418. 3758777.6, (449418. 3758777.6, (449433. 3758777.6, (449441. 3758777.6, (449368. 3758791.6, (449375. 3758791.6, (449381. 3758791.6, (449391.	190.8, 4, 3758777.6 190.3, 1, 3758777.6 189.7, 8, 3758777.6 189.2, 6, 3758777.6 188.9, 3, 3758777.6 188.6, 1, 3758777.6 188.4, 8, 3758777.6 188.1, 5, 3758777.6 188.1, 5, 3758791.6 192.3, 8, 3758791.6 191.5, 5, 3758791.6	195.0, 6, 190.5, 195.0, 6, 190.0, 195.0, 6, 189.5, 195.0, 6, 189.0, 188.9, 6, 188.8, 188.6, 188.6, 188.4, 6, 188.2, 188.1, 6, 188.2, 188.1, 6, 188.0, 6, 192.6, 195.0, 6, 191.9, 195.0, 6, 191.2, 191.0, 6, 190.7, 100.7, 100.5, 10	0.0); 195.0, 0.0); 195.0, 0.0); 195.0, 0.0); 189.0, 0.0); 188.8, 0.0); 188.5, 0.0); 188.2, 0.0); 188.0, 0.0); 192.6, 0.0); 195.0, 0.0); 195.0, 0.0); 195.0, 0.0); 195.0, 0.0); 195.0, 0.0); 195.0, 0.0); 195.0, 0.0); 192.6, 0.0); 195.0, 0.0); 192.6, 0.0); 195.0, 0.0); 195.0, 0.0); 188.2, 0.0); 192.6, 0.0); 195.0, 0.0); 195.0, 0.0); 188.2, 0.0); 188.0, 0.0); 188.2, 0.0); 192.6, 0.0); 195.0, 0.0); 195.0, 0.0); 188.2, 0.0); 192.6, 0.0); 195.0, 0.0); 192.6, 0.0); 195.0, 0.0); 192.6, 0.0); 195.0, 0.0); 192.6, 0.0); 195.0, 0.0); 192.6, 0.0); 195.0, 0.0); 195.0, 0.0); 195.0, 0.0); 195.0, 0.0); 195.0, 0.0); 195.0, 0.0); 195.0, 0.0); 195.0, 0.0); 195.0, 0.0); 195.0, 0.0); 195.0, 0.0); 195.0, 0.0); 195.0, 0.0); 195.0, 0.0); 195.0, 0.0); 195.0, 0.0); 195.0, 0.0); 195.0, 0.0); 190.7, 0.0; 190.7, 0.0; 190.7, 0.0; 10	0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0);	<pre>( 449391.2, ( 449399.0, ( 449406.7, ( 449414.5, ( 449422.2, ( 449422.2, ( 449429.9, ( 449437.7, ( 449445.4, ( 449371.9, ( 449379.6, ( 449387.4, ( 449395.1,</pre>

( 449399	.0,	3758791.6	i, 1	90.2,	190.	2,	0.0);	(	449402.8,
3758791.6,	19	0.0,	190.0,		0.0);			-	
( 449406	.7,	3758791.6	i, 1	89.7,	189.	7,	0.0);	(	449410.6,
3758791.6,	18	9.5,	189.5,		0.0);				
( 449414	.5,	3758791.6	i, 1	89.3,	189.	3,	0.0);	(	449418.3,
3758791.6,	18	9.2,	189.2,		0.0);				
( 449422	.2,	3758791.6	i <b>,</b> 1	89.1,	189.3	1,	0.0);	(	449426.1,
3758791.6,	18	9.0,	189.0,		0.0);				
( 449429	.9,	3758791.6	i <b>,</b> 1	88.8,	188.3	8,	0.0);	(	449433.8,
3758791.6,	18	8.7,	188.7,		0.0);				
( 449437	.7,	3758791.6	i, 1	88.6,	188.0	6,	0.0);	(	449441.5,
3758791.6,	18	8.5,	188.5,		0.0);				
( 449445	.4,	3758791.6	i, 1	88.4,	188.4	4,	0.0);	(	449368.0,
3758805.6,	19	2.8,	192.8,		0.0);				
( 449371	.9,	3758805.6	i, 1	92.5,	192.	5,	0.0);	(	449375.8,
3758805.6,	19	2.2,	192.2,		0.0);				
( 449379	.6,	3758805.6	i, 1	92.0,	192.0	0,	0.0);	(	449383.5,
3758805.6,	19	1.7,	191.7,		0.0);				
( 449387	.4,	3758805.6	i, 1	91.5,	191.	5,	0.0);	(	449391.2,
3758805.6,	19	1.2,	191.2,		0.0);				
( 449395	.1,	3758805.6	i, 1	90.9,	190.9	9,	0.0);	(	449399.0,
3758805.6,	19	0.7,	190.7,		0.0);			,	
( 449402	.8,	3758805.6	5, 1	90.4,	190.4	4,	0.0);	(	449406.7,
3758805.6,	19	0.2,	190.2,		0.0);		`	,	
( 449410	.6,	3758805.6	i, 1	89.9,	189.9	9,	0.0);	(	449414.5,
3758805.6,	18	9.8,	189.8,		0.0);	_	a a)	,	
( 449418	.3,	3/58805.6	), 1	89./,	189.	/,	0.0);	(	449422.2,
3/58805.6,	18	9.6,	189.6,	<u> </u>	0.0);		a a)	,	
( 449426	.1,	3/58805.6	), 1 100 2	89.4,	189.4	4,	0.0);	(	449429.9,
3/58805.6,	18	9.3, 2750005 6	189.3,	00.0	0.0);	n	0.0).	,	440427 7
( 449433	، کن ۱۵	3/58805.0	), L	89.2,	189.	Ζ,	0.0);	(	449437.7,
3/38803.0,	18	9.0,	189.0,	00 0	0.0);	0	0.0).	,	
2759905 6	، کر . ۱۵	3/58805.0	), ⊥ 100 0	88.9,	188.	9,	0.0);	C	449445.4,
3/58805.0,	10	8.8, 2750010 7	188.8,	0.2 0	102	0	0 0).		440271 0
2750010 7	10	2/20013./ 2/20013./	, 102 E	92.0,	192.0	0,	0.0),	C	4495/1.9,
/ //0275	0 19	2،J, 2750010 7	192.J,	ດງ່າ	107	า	0 0).	(	110270 6
2758810 7	، د. 10	2730019.7 2 0	, 102 A	92.2,	192.	, ۷	0.0),	C	449579.0,
/ //0383	5	2.0, 3758810 7	192.0, / 1	Q1 7	101	7	0 0).	(	119387 1
3758819 7	19 <sup>°</sup>	1 5	, <u> </u>	J.,	9 9).	<i>'</i> ,	0.0);	(	
▲ *** AFRMOD	- VF	RSION 19	, 9191 ***	***	* C:\IAKF	S\AERMOD	VIEW\14172	HRA\(	CO\CO.TSC
	• -		***	11	L/11/21				
*** AERMET -	VER	SION 162	216 ***	***	_,, <b>_</b> +				
		**	*	12:1	L8:15				
				, -					
				PAGE	6				
*** MODELOPT	s:	RegDFAU	ILT CON	C ELE	EV URBAN	ADJ_U*			

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)

(METERS)

( 449391.2, 3758819.7, 191.2,	191.2,	0.0);	( 449395.1,
3758819.7, 191.0, 191.0, ( //9399 0 3758819 7 190 7	0.0);	0 0).	( 119102 8
3758819.7, 190.4, 190.4,	0.0);	0.0),	( ++)+02.0;
(449406.7, 3758819.7, 190.2,	190.2,	0.0);	( 449410.6,
3758819.7, 190.0, 190.0,	0.0);	0 0).	( 440419 2
(449414.5, 5758819.7, 189.8, 3758819.7. 189.7. 189.7.	0.0):	0.0);	( 449418.3,
(449422.2, 3758819.7, 189.6,	189.6,	0.0);	( 449426.1,
3758819.7, 189.5, 189.5,	0.0);	`	
(449429.9, 3758819.7, 189.3, 3758819 7 189 2 189 2	189.3,	0.0);	( 449433.8,
(449437.7, 3758819.7, 189.1,	189.1.	0.0);	( 449441.5,
3758819.7, 188.9, 188.9,	0.0);	,,	(
(449445.4, 3758819.7, 188.8,	188.8,	0.0);	( 449368.0,
3758833.7, 192.8, 192.8,	0.0);	0.0).	( 440275 0
(4493/1.9, 3/58833.7, 192.5, 3758833.7. 192.2. 192.2.	192.5,	0.0);	( 449375.8,
(449379.6, 3758833.7, 192.0,	192.0,	0.0);	(449383.5,
3758833.7, 191.7, 191.7,	0.0);	,,,	
(449387.4, 3758833.7, 191.5,	191.5,	0.0);	( 449391.2,
3758833.7, 191.2, 191.2,	0.0);	0.0).	( 440200 0
(449395.1, 3758833.7, 191.0, 3758833.7. 190.7. 190.7.	191.0,	0.0);	( 449399.0,
(449402.8, 3758833.7, 190.4,	190.4,	0.0);	( 449406.7,
3758833.7, 190.2, 190.2,	0.0);		
(449410.6, 3758833.7, 190.0,	190.0,	0.0);	( 449414.5,
3758833.7, 189.8, 189.8,	0.0);	0.0).	( 440422 2
(449418.3, 3758833.7, 189.7, 3758833.7 189.6 189.6	189.7,	0.0);	( 449422.2,
(449426.1, 3758833.7, 189.5,	189.5.	0.0);	( 449429.9.
3758833.7, 189.3, 189.3,	0.0);		
(449433.8, 3758833.7, 189.2,	189.2,	0.0);	( 449437.7,
3758833.7, 189.1, 189.1,	0.0);	a a)	(
(449441.5, 3758833.7, 188.9,	188.9,	0.0);	( 449445.4,
(449368.0. 3758847.8. 193.4.	193.4.	0.0):	( 449371.9.
3758847.8, 193.2, 193.2,	0.0);	0.075	( 1.557 2.15)
(449375.8, 3758847.8, 193.0,	193.0,	0.0);	( 449379.6,
3758847.8, 192.8, 192.8,	0.0);	>	
(449383.5, 3758847.8, 192.5,	192.5,	0.0);	( 449387.4,
<i>3758847.8</i> , <i>192.2</i> , <i>192.2</i> , ( <i>449391.2</i> , <i>3758847.8</i> , <i>192.0</i> ,	192.0.	0.0):	( 449395.1.
3758847.8, 191.7, 191.7,	0.0);	0.0);	( ++)))).1)
( 449399.0, 3758847.8, 191.5,	191.5,	0.0);	( 449402.8,
3758847.8, 191.2, 191.2,	0.0);		
(449406.7, 3758847.8, 191.0,	191.0,	0.0);	( 449410.6,
3/5884/.8, 190./, 190./,	0.0);		

( 449414.	5, 3758847.	8,	190.5,	190.5,	0.0);	( 449418.3,
3758847.8,	190.4,	190.4,		0.0);		
( 449422.	2, 3758847.	8,	190.2,	190.2,	0.0);	( 449426.1,
3758847.8,	190.0,	190.0,		0.0);		
( 449429.	9, 3758847.	8,	189.8,	189.8,	0.0);	(449433.8,
3758847.8,	189.6,	189.6,		0.0);	• -	•
( 449437.	7, 3758847.	8,	189.5,	189.5,	0.0);	( 449441.5,
3758847.8,	189.3,	189.3,	-	0.0);		
( 449445.	4, 3758847.	8.	189.2.	189.2.	0.0);	( 449368.0,
3758861.8.	194.1.	194.1.	,	0.0);		(
( 449371.	9. 3758861.	8.	194.0.	194.0.	0.0);	( 449375.8.
3758861.8.	193.8.	193.8.		0.0):	,,	
( 449379.	6. 3758861.	8.	193.7.	193.7.	0.0):	( 449383.5.
3758861.8.	193.4.	193.4.	199179	9.9):	0.075	( 11990919)
( 449387	4 3758861	2, 2,	193 2	193 2	9 9).	( 449391 2
3758861 8	192 9	192 9	199.29	9 9)·	0.0/,	( ++)))1.2,
/ 1/0305	1 3758861	Q	102 7	102 7	0 0).	( 110300 0
2758861 8	102 /	0, 102 /	192.7,	192.7, 0 0):	0.0),	( 449599.0,
/ 1/0/02	192.4, 0 2750061	0	102 1	102 1	0 0).	( 110106 7
2750061 0	101 0	0, 101 0	192.1,	192.1,	0.0),	( 449400.7,
5/50001.0,	191.9,	191.9,	101 C	101 C	0.0).	
( 449410.	101 4	ð, 101 1	191.6,	191.0,	0.0);	( 449414.5,
3/58861.8,	191.4,	191.4,	101 0	0.0);	0.0).	( 440422 2
( 449418.	3, 3/58861.	8, 100 0	191.2,	191.2,	0.0);	( 449422.2,
3/58861.8,	190.9,	190.9,	100 -	0.0);	a a)	(
( 449426.	1, 3/58861.	8,	190./,	190./,	0.0);	( 449429.9,
3758861.8,	190.4,	190.4,		0.0);		
( 449433.	8, 3758861.	8,	190.2,	190.2,	0.0);	( 449437.7,
3758861.8,	190.0,	190.0,		0.0);		
( 449441.	5, 3758861.	8,	189.8,	189.8,	0.0);	( 449445.4,
3758861.8,	189.7,	189.7,		0.0);		
( 449368.	0, 3758875.	8,	194.7,	194.7,	0.0);	( 449371.9,
3758875.8,	194.6,	194.6,		0.0);		
( 449375.	8, 3758875.	8,	194.4,	194.4,	0.0);	( 449379.6,
3758875.8,	194.3,	194.3,		0.0);		
( 449383.	5, 3758875.	8,	194.1,	194.1,	0.0);	( 449387.4,
3758875.8,	193.8,	193.8,		0.0);		
( 449391.	2, 3758875.	8,	193.5,	193.5,	0.0);	( 449395.1,
3758875.8,	193.3,	193.3,		0.0);		
( 449399.	0, 3758875.	8,	193.0,	193.0,	0.0);	( 449402.8,
3758875.8,	192.8,	192.8,		0.0);		
( 449406.	7, 3758875.	8,	192.5,	192.5,	0.0);	( 449410.6,
3758875.8,	192.2,	192.2,		0.0);	• -	•
▲ *** AERMOD ·	- VERSION 1	.9191 *	** **:	* C:\LAKES\AERMOD	VIEW\14172	HRA\CO\CO.ISC
		***	11	L/11/21	-	
*** AERMET -	VERSION 16	216 ***	***			
	*	**	12:1	L8:15		
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

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192.0, (449414.5, 3758875.8, 192.0, 0.0);(449418.3,3758875.8, 191.7, 191.7, 0.0); 191.5, 0.0);(449422.2, 3758875.8, 191.5, (449426.1)191.2, 0.0);3758875.8, 191.2, 191.0, (449429.9, 3758875.8, 191.0, 0.0); (449433.8, 3758875.8, 0.0); 190.7, 190.7, 190.4, 190.4, (449437.7, 3758875.8, 0.0); (449441.5,3758875.8, 0.0); 190.2, 190.2, 190.1, (449445.4, 3758875.8, 0.0);(449368.0, 190.1, 195.2, 3758889.9, 195.2, 0.0);195.0, (449371.9, 3758889.9, 195.0, 0.0);(449375.8,194.9, 0.0); 3758889.9, 194.9, 194.8, (449379.6, 3758889.9, 194.8, 0.0); (449383.5,194.5, 3758889.9, 194.5, 0.0); 194.3, 194.3, (449387.4, 3758889.9, 0.0); (449391.2,0.0); 3758889.9, 194.0, 194.0, 193.7, (449395.1, 3758889.9, 193.7, 0.0); (449399.0, 193.5, 3758889.9, 193.5, 0.0); 193.2, (449402.8, 3758889.9, 193.2, 0.0);(449406.7)193.0, 0.0); 3758889.9, 193.0, 192.7, 192.7, (449410.6, 3758889.9, 0.0); (449414.5,0.0); 192.5, 3758889.9, 192.5, 192.2, (449418.3, 3758889.9, 192.2, 0.0); ( 449422.2, 0.0); 191.9, 3758889.9, 191.9, 191.7, (449426.1, 3758889.9, 191.7, 0.0); (449429.9,191.4, 0.0); 3758889.9, 191.4, 191.2, (449433.8, 3758889.9, 191.2, 0.0);(449437.7)190.9, 3758889.9, 190.9, 0.0);190.7, (449441.5, 3758889.9, 190.7, 0.0);(449445.4, 3758889.9, 190.6, 190.6, 0.0); 195.8, (449368.0, 3758903.9, 0.0); 195.8, (449371.9, 195.7, 0.0); 3758903.9, 195.7, 195.6, (449375.8, 3758903.9, 195.6, 0.0);(449379.6,195.5, 0.0); 3758903.9, 195.5, (449383.5, 3758903.9, 195.2, (449387.4, 195.2, 0.0); 195.0, 3758903.9, 195.0, 0.0);194.7, (449391.2, 3758903.9, 194.7, 0.0); (449395.1,3758903.9, 194.5, 194.5, 0.0);194.2, (449399.0, 3758903.9, 194.2, 0.0); (449402.8,3758903.9, 194.0, 0.0); 194.0, (449406.7, 3758903.9, 193.7, 0.0); (449410.6, 193.7, 193.4, 0.0); 3758903.9, 193.4, (449414.5, 3758903.9, 193.1, 193.1, 0.0); (449418.3,192.8, 0.0); 3758903.9, 192.8, ( 449426.1, (449422.2, 3758903.9, 192.6, 0.0);192.6, 3758903.9, 192.3, 192.3, 0.0);

( 449429	.9, 3758903	.9, 192	.0,	192.0,	0.0);	( 449433.8,
3758903.9,	191.7,	195.0,	0.	0);		
( 449437	<b>.7,</b> 3758903	.9, 191	.4,	195.0,	0.0);	( 449441.5,
3758903.9,	191.2,	191.2,	0.	0);		
( 449445	.4, 3758903	.9, 191	.1,	191.1,	0.0);	( 449368.0,
3758918.0,	196.6,	196.6,	0.	0);		
( 449371	9, 3758918	.0, 196	.5,	196.5,	0.0);	(449375.8,
3758918.0,	196.5,	196.5,	0.	0);		
( 449379	.6, 3758918	.0, 196	.4,	196.4,	0.0);	(449383.5,
3758918.0,	196.2,	196.2,	0.	0);		
( 449387	.4, 3758918	.0, 195	.9,	195.9,	0.0);	( 449391.2,
3758918.0,	195.7,	195.7,	0.	0);		•
( 449395	.1, 3758918	.0, 195	.4,	195.4,	0.0);	( 449399.0,
3758918.0,	195.1,	195.1,	0.	0);	,,,	
( 449402	.8, 3758918	.0. 194	.9.	194.9.	0.0);	( 449406.7.
3758918.0.	194.6.	194.6.	0.	0):		(
( 449410	.6. 3758918	.0. 194		194.3.	0.0):	( 449414.5.
3758918.0.	194.0.	195.0.	,	9):	010/5	(
( 449418	3, 3758918	.0. 193	. 6.	195.0.	0.0):	( 449422 2
3758918 0	193 3	195 0	, A	9)·	0.075	( 11312212)
( 119126	1 3758918	a 192	• a	195 0	0 0).	( 119129 9
3758018 0	192 6	195 0	, A	a).	0.0/,	( ++)+2).),
/ //0/33	2 2 3752012	A 102	· 2	105 0	0 0).	( 110137 7
3758018 0	101 0	105 A		a).	0.0),	( ++)+)/./,
/ / //////	E 27E0010	195.0,	7 0.	105 0	0 0).	
2750010 0	101 E	101 E	,	195.0,	0.0),	( 449445.4,
( 440269	191.3, 0 3750033	191.5,	'	لع) 107 ک	0 0).	( 440271 0
2750022 0	107 2	.0, 197 107 0	.2,	197.2,	0.0),	( 4495/1.9,
٥/٥٥٩٥٢، / ٨٨٥٦٦٢	19/.2,	197.2,		107.2	0.0).	( 110270 C
( 4493/3	107 0	.0, 197	.2,	197.2,	0.0);	( 449379.6,
3/38932.0,	197.2,	197.2,	0.	(b);	0.0).	( 440207 4
( 449383	106 7	.0, 196	.9,	196.9,	0.0);	( 449387.4,
3/58932.0,	196.7,	196./,	6.	6);	0.0	( 440205 4
( 449391	2, 3/58932	.0, 196	.4,	196.4,	0.0);	( 449395.1,
3/58932.0,	196.2,	196.2,	0.	0);	a a)	(
( 449399	0.0, 3/58932	.0, 195	.9,	195.9,	0.0);	(449402.8,
3758932.0,	195.6,	195.6,	0.	0);		
( 449406	5.7, 3758932	.0, 195	.4,	195.4,	0.0);	( 449410.6,
3758932.0,	195.1,	195.1,	0.	0);		
( 449414	.5, 3758932	.0, 194	.7,	194.7,	0.0);	( 449418.3,
3758932.0,	194.3,	194.3,	0.	0);		
( 449422	.2, 3758932	.0, 193	.9,	193.9,	0.0);	( 449426.1,
3758932.0,	193.5,	193.5,	0.	0);		
( 449429	.9, 3758932	.0, 193	.1,	193.1,	0.0);	( 449433.8,
3758932.0,	192.8,	192.8,	0.	0);		
★ *** AERMOD	- VERSION	19191 ***	*** (	:\LAKES\AE	RMOD VIEW\14172	HRA\CO\CO.ISC
		***	11/1	1/21		
*** AERMET -	VERSION 16	5216 ***	***			
	\$	***	12:18:	15		

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\* (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG) (METERS)

(449437.7, 3758932.0, 192.4,	192.4,	0.0);	( 449441.5,
3758932.0, 192.1, 192.1, ( 449445.4, 3758932.0, 192.0,	0.0); 192.0,	0.0);	( 449368.0,
3758946.0, 197.7, 197.7,	0.0);		(
(449371.9, 3758946.0, 197.7,	197.7,	0.0);	( 449375.8,
3758946.0, 197.7, 197.7, ( 10270 6 3758016 0 107.7	0.0); 197 7	0 0).	( 110383 5
3758946.0, 197.4, 197.4,	0.0);	0.0),	( 449505.5,
(449387.4, 3758946.0, 197.1,	197.1,	0.0);	( 449391.2,
3758946.0, 196.9, 196.9,	0.0);		
(449395.1, 3758946.0, 196.6,	196.6,	0.0);	( 449399.0,
3/58946.0, 196.4, 196.4,	0.0);	0.0).	( 110106 7
(449402.8, 5758946.0, 196.1, 3758946.0 195.8 195.8	190.1,	0.0);	( 449400.7,
(449410.6, 3758946.0, 195.5,	195.5.	0.0);	( 449414.5.
3758946.0, 195.2, 195.2,	0.0);		
( 449418.3, 3758946.0, 194.8,	194.8,	0.0);	( 449422.2,
3758946.0, 194.4, 194.4,	0.0);		
(449426.1, 3758946.0, 194.0,	196.0,	0.0);	(449429.9,
3/58946.0, 193.6, 196.0, ( //0/32 8 37580/6 0 103.2	0.0); 196 0	0 0).	( 110137 7
3758946.0. 192.8. 196.0.	0.0):	0.0),	( 449457.7,
(449441.5, 3758946.0, 192.5,	196.0,	0.0);	( 449445.4,
3758946.0, 192.3, 192.3,	0.0);		
( 449368.0, 3758960.1, 198.0,	198.0,	0.0);	( 449371.9,
3758960.1, 198.0, 198.0,	0.0);	`	<pre>/</pre>
(449375.8, 3758960.1, 198.0,	198.0,	0.0);	( 449379.6,
3/58960.1, 198.0, 198.0, ( //0383 5 3758060 1 107 8	0.0); 197 8	0 0).	( 119387 1
3758960.1. 197.5. 197.5.	0.0);	0.0);	( ++))07.+;
(449391.2, 3758960.1, 197.3,	197.3,	0.0);	( 449395.1,
3758960.1, 197.0, 197.0,	0.0);		
(449399.0, 3758960.1, 196.8,	196.8,	0.0);	( 449402.8,
3758960.1, 196.5, 196.5,	0.0);	0.0).	( 440410 C
(449406.7, 3758960.1, 196.3, 3758960.1 196.0 196.0	196.3,	0.0);	( 449410.6,
(449414.5, 3758960.1, 195.6,	195.6.	0.0):	( 449418.3.
3758960.1, 195.2, 195.2,	0.0);		(
(449422.2, 3758960.1, 194.9,	194.9,	0.0);	( 449426.1,
3758960.1, 194.5, 194.5,	0.0);		
(449429.9, 3758960.1, 194.1,	194.1,	0.0);	( 449433.8,
3/308960.1, 193./, 193./, ( 110137 7 3758060 1 102 2	(0.0); 193 3	0 0).	( 110111 E
3758960.1. 193.0. 193.0.	0.0):	0.0/,	( 449441.J,

( 449445	.4, 3758960.3	1, 192.7	, 192.7,	0.0);	( 449368.0,
3758974.1,	198.0,	198.0,	0.0);		
( 449371	.9, 3758974.	1, 198.0	, 198.0,	0.0);	( 449375.8,
3758974.1,	198.0,	198.0,	0.0);		<i></i>
( 449379	.6, 3758974.3	1, 198.0	, 198.0,	0.0);	(449383.5,
3/589/4.1,	197.8,	197.8,	0.0);		( 440201 2
( 44938/	.4, 3/589/4.	1, 197.6	, 197.6,	0.0);	( 449391.2,
<i>3730974.1</i> , ( <i>Л</i> Л <u></u> <u>Я</u> <u></u> ( <i>Л</i> <u>Л</u> <u>Я</u> <u></u> <u>Я</u> <u></u>	1 375807 <i>/</i> ·	197.5, 1 107 3	ر0.0), 1973	0 0).	( 119399 0
3758974.1.	197.1.	197.1.	, <u>1</u> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.0),	( ++)))),0,
( 449402	.8. 3758974.	1. 196.9	. 196.9.	0.0);	( 449406.7,
3758974.1,	196.7,	196.7,	0.0);		
( 449410	.6, 3758974.	1, 196.5	, 196.5,	0.0);	( 449414.5,
3758974.1,	196.1,	196.1,	0.0);		
( 449418	.3, 3758974.	1, 195.7	, 195.7,	0.0);	( 449422.2,
3758974.1,	195.3,	195.3,	0.0);		
( 449426	.1, 3758974.	1, 194.9	, 197.0,	0.0);	( 449429.9,
3758974.1,	194.5,	197.0,	0.0);	o o)	(
( 449433	.8, 3/589/4.3	1, 194.2	, 197.0,	0.0);	( 449437.7,
3/589/4.1,	193.8,	197.0,	0.0);	0.0).	
( 449441	·5, 3/589/4.	1, 193.4	, 197.0, 0.0):	0.0);	( 449445.4,
<i>1</i> ,20974.1, ( <i>1</i> ,10368)	195.1, 0 3758988	197.0, 2 108 1	198 1	0 0).	( 119371 9
3758988 2	198 1	198 1	, 150.1, 0 0)·	0.0),	( ++))/1.),
( 449375	8. 3758988	2. 198.1	198.1.	9.9):	( 449379.6.
3758988.2.	198.1.	198.1.	0.0);	0.075	( 11557510)
( 449383	.5, 3758988.	2, 197.9	, 197.9,	0.0);	( 449387.4,
3758988.2,	197.8,	197.8,	0.0);		
( 449391	.2, 3758988.	2, 197.6	, 197.6,	0.0);	( 449395.1,
3758988.2,	197.5,	197.5,	0.0);		
( 449399	.0, 3758988.3	2, 197.4	, 197.4,	0.0);	( 449402.8,
3758988.2,	197.2,	197.2,	0.0);		
( 449406	.7, 3758988.	2, 197.1	, 197.1,	0.0);	( 449410.6,
3758988.2,	196.9,	196.9,	0.0);		
( 449414	.5, 3/58988.2	2, 196.5	, 196.5,	0.0);	( 449418.3,
3/58988.2,	196.1,	196.1,	0.0);	0.0).	( 440426 1
2750000 2	105 /	2, 195.8 105 /	, 195.8, 0.0).	0.0);	( 449420.1,
<i>( 11</i> 9429	9 3758988	195.4, 2 195.0	195 0	9 9).	( 119133 8
3758988.2.	194.6.	194.6.	, <u>199.0</u> , 0.0):	0.0);	( ++>+>)))))
( 449437	.7. 3758988.	2. 194.2	. 194.2.	0.0):	( 449441.5,
3758988.2.	193.9.	193.9.	0.0);		(
( 449445	.4, 3758988.	2, 193.5	, 193.5,	0.0);	( 449368.0,
3759002.2,	198.5,	198.5,	0.0);		•
( 449371	.9, 3759002.3	2, 198.5	, 198.5,	0.0);	( 449375.8,
3759002.2,	198.5,	198.5,	0.0);		
★ *** AERMOD	- VERSION 1	9191 ***   * ***	** C:\LAKES\AERMOD 11/11/21	VIEW\14172	HRA\CO\CO.ISC
*** AERMET -	VERSION 16	216 *** **	, <b></b> , <b></b> *		
· <b>-</b> ·	*	** 12	:18:15		

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

	*** DISC	CRETE CARTESIAN	RECEPTORS ***
	(X-COORD,	Y-COORD, ZELEV	, ZHILL, ZFLAG)
		(METERS)	, , ,
		· · · · · · · · · · · · · · · · · · ·	
(449379.6, 3759002.2, 198.5,	198.5,	0.0);	( 449383.5,
3759002.2, 198.3, 198.3,	0.0);	,,,	
( 449387.4, 3759002.2, 198.1,	198.1,	0.0);	( 449391.2,
3759002.2, 197.9, 197.9,	0.0);	, -	, i
(449395.1, 3759002.2, 197.7,	197.7,	0.0);	( 449399.0,
3759002.2, 197.5, 197.5,	0.0);		•
(449402.8, 3759002.2, 197.3,	197.3,	0.0);	( 449406.7,
3759002.2, 197.1, 197.1,	0.0);		
(449410.6, 3759002.2, 196.9,	196.9,	0.0);	( 449414.5,
3759002.2, 196.6, 196.6,	0.0);		
(449418.3, 3759002.2, 196.3,	196.3,	0.0);	( 449422.2,
3759002.2, 196.0, 196.0,	0.0);		
(449426.1, 3759002.2, 195.6,	195.6,	0.0);	( 449429.9,
3759002.2, 195.3, 195.3,	0.0);		
(449433.8, 3759002.2, 195.0,	195.0,	0.0);	( 449437.7,
3759002.2, 194.7, 194.7,	0.0);		
(449441.5, 3759002.2, 194.3,	194.3,	0.0);	( 449445.4,
3759002.2, 193.9, 193.9,	0.0);		
(449368.0, 3759016.2, 199.0,	199.0,	0.0);	( 449371.9,
3759016.2, 199.0, 199.0,	0.0);		
( 449375.8, 3759016.2, 199.0,	199.0,	0.0);	( 449379.6,
3759016.2, 199.0, 199.0,	0.0);		
(449383.5, 3759016.2, 198.7,	198.7,	0.0);	( 449387.4,
3759016.2, 198.5, 198.5,	0.0);		
(449391.2, 3759016.2, 198.2,	198.2,	0.0);	( 449395.1,
3759016.2, 198.0, 198.0,	0.0);		
(449399.0, 3759016.2, 197.7,	197.7,	0.0);	( 449402.8,
3759016.2, 197.4, 197.4,	0.0);		
(449406.7, 3759016.2, 197.2,	197.2,	0.0);	( 449410.6,
3759016.2, 196.9, 196.9,	0.0);		
(449414.5, 3759016.2, 196.7,	196.7,	0.0);	( 449418.3,
3759016.2, 196.4, 196.4,	0.0);		
(449422.2, 3759016.2, 196.2,	196.2,	0.0);	( 449426.1,
3759016.2, 195.9, 195.9,	0.0);		
(449429.9, 3759016.2, 195.6,	195.6,	0.0);	( 449433.8,
3759016.2, 195.4, 195.4,	0.0);		<i></i>
(449437.7, 3759016.2, 195.1,	195.1,	0.0);	( 449441.5,
3759016.2, 194.8, 195.0,	0.0);		
(449445.4, 3759016.2, 194.4,	195.0,	0.0);	( 449368.0,
3/59030.3, 198.5, 198.5,	0.0);	<b>a a )</b>	
(4493/1.9, 3/59030.3, 198.5,	198.5,	0.0);	( 449375.8,
3/59030.3, 198.5, 198.5,	0.0);		

( 449379.	6, 3759030.	3,	198.5,	198.5,	0.0);	( 449383.5,
3759030.3,	198.3,	198.3	,	0.0);		
( 449387.	4, 3759030.	3,	198.0,	198.0,	0.0);	( 449391.2,
3759030.3,	197.8,	197.8	, , , , , , , , , , , , , , , , , , , ,	0.0);	e e)	(
( 449395.	1, 3759030.	.3,	197.5,	197.5,	0.0);	( 449399.0,
3/59030.3,	197.2,	197.2	,	0.0);	0.0	( 440406 7
( 449402.	.8, 3/59030.	.3, 106 7	197.0,	197.0,	0.0);	( 449406./,
3/59030.3,	196.7,	196./	, 10с г	0.0);	0.0).	
( 449410.	106 2	، ځ, 10 ح ک	196.5,	196.5,	0.0);	( 449414.5,
3/59030.3,	190.3,	190.3	, 106 1	0.0);	0 0).	( 440422 2
	105 0	, ), 105 0	190.1,	190.1,	0.0);	( 449422.2,
3/59030.3,	195.9,	192.9	, 105 7	0.0);	0.0).	( 440420 0
( 449426.	105 5	. ک, ۱۹۲۲ ۲	195./,	195./,	0.0);	( 449429.9,
3/59030.3,	195.5,	192.2	, 105 J	0.0);	0.0).	
( 449433.	.8, 3/59030.	. خ. ۱۹۲۱ ا	195.3,	195.3,	0.0);	( 449437.7,
3/59030.3,	195.1,	192.1	,	0.0);	0.0).	
( 449441.	.5, 3/59030.	, ک, ۱۰، ۱۰	194.8,	194.8,	0.0);	( 449445.4,
3/59030.3,	194.4,	194.4	, 100 1	0.0);	0.0).	( 440271 0
	100 1	, ک 100 1	198.1,	198.1,	0.0);	( 4493/1.9,
3/59044.3,	198.1,	198.1	, 100 1	0.0);	0.0).	( 440270 (
( 4493/5.	.8, 3/59044.	, ک, 100 1	198.1,	198.1,	0.0);	( 4493/9.6,
3/59044.3,	198.1,	198.1	, 107 0	0.0);	0.0).	( 440207 4
( 449383.	107 F	. خ. 107 г	197.8,	197.8,	0.0);	( 449387.4,
3/59044.3,	197.5,	19/.5	, 107 0	0.0);	0.0).	( 440205 1
( 449391.	2, 3/59044.	. J., 107.0	197.3,	197.3,	0.0);	( 449395.1,
3/59044.3,	197.0,	197.0	,	0.0);	0.0	( 440402 0
( 449399.	.0, 3/59044.	. J.,	196.8,	196.8,	0.0);	( 449402.8,
3/59044.3,	196.5,	196.5	, 105 D	0.0);	0.0	(
( 449406.	./, 3/59044.	, <b>3</b> ,	196.2,	196.2,	0.0);	( 449410.6,
3/59044.3,	196.0,	196.0	,	0.0);	0.0	( 440440 2
( 449414.	.5, 3/59044.	. J.	195.9,	195.9,	0.0);	( 449418.3,
3/59044.3,	195.8,	195.8	, 105 c	0.0);	0.0	( 110126 1
( 449422.	2, 3/59044.	.3, 105 5	195.6,	195.6,	0.0);	( 449426.1,
3/59044.3,	195.5,	195.5	,	0.0);	0.0	( 440422 0
( 449429.	.9, 3/59044.	.3, 105 D	195.3,	195.3,	0.0);	( 449433.8,
3/59044.3,	195.2,	195.2	, 105 1	0.0);	0.0	(
( 44943/.	104 0	, ک ۱۵۹ ۵	195.1,	195.1,	0.0);	( 449441.5,
3/59044.3,	194.8,	194.8	, 101 1	104 4	0.0).	
( 449445.	4, 3759044.	, ک	194.4,	194.4,	0.0);	
▲ *** AEDMOD		10101 *	** **	* C./IVEC/VEDWOD		
	- VERSIUN .	19191 <sup>~</sup> ***	1.	· C. LAKES (AERMUD)	VICW\141/2	
			L.	エ/ エエ/ イエ		

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*

\*\*\*

PAGE 10

12:18:15

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* METEOROLOGICAL DAYS SELECTED FOR

PROCESSING \*\*\*
(1=YES; 0=NO)

1111111 11111111111 1111111111 111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1111111111 11111111111 1111111111 111 111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1111111111 111 1111111 1111111111 1111111111 111 1111111 11111111111 1111111 11111111111 111111111 11111

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

\*\*\* UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED

CATEGORIES \*\*\*

(METERS/SEC)

1.54, 3.09, 5.14, 8.23,

10.80,

★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 HRA\CO\CO.ISC \*\*\* 11/11/21 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* \*\*\* 12:18:15

PAGE 11 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL

DATA \*\*\*

Surface file: ..\KRAL\_V9\_ADJU\KRAL\_V9.SFC Met Version: 16216 Profile file: ..\KRAL V9 ADJU\KRAL V9.PFL

Surface format: FREE

Profile format: FREE

Surface station no.:	3171	Upper air station no.:	3190
Name:	UNKNOWN	Name:	UNKNOWN

Year: 2012

Year: 2012

First	24 houi	rs of	scala	ar d	lata									
YR MO	DY JDY	HR	HØ		U*		W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	
ALBEDO	REF WS	s WD	)	ΗT	REF	F TA	1	HT						
12 01	01 1	01 -	25.6	0.	266	-9.	000	-9.000	-999.	330.	77.9	0.15	2.40	
1.00	2.93	55.	10.	.1	288	.1	2	.0						
12 01	01 1	02 -	26.8	0.	. 277	-9.	000	-9.000	-999.	351.	84.7	0.15	2.40	
1.00	3.05	55.	10.	.1	287	.0	2	.0						
12 01	01 1	03 -	21.5	0.	.221	-9.	000	-9.000	-999.	250.	53.5	0.15	2.40	
1.00	2.45	74.	10.	.1	284	.2	2	.0						
12 01	01 1	04 -	22.0	0.	.227	-9.	000	-9.000	-999.	260.	56.8	0.15	2.40	
1.00	2.52	77.	10.	.1	285	.9	2	.0						
12 01	01 1	05 -	20.0	0.	206	-9.	000	-9.000	-999.	225.	46.8	0.15	2.40	
1.00	2.30	80.	10.	.1	285	.4	2	.0						
12 01	01 1	06 -	14.4	0.	.171	-9.	000	-9.000	-999.	170.	32.1	0.15	2.40	
1.00	1.93	79.	10.	.1	287	.0	2	.0						
12 01	01 1	07 -	14.9	0.	.174	-9.	000	-9.000	-999.	174.	33.2	0.15	2.40	
1.00	1.96	77.	10.	.1	284	.2	2	.0						
12 01	01 1	08 -	11.9	0.	.169	-9.	000	-9.000	-999.	167.	36.1	0.15	2.40	
0.53	1.89	77.	10.	.1	288	.1	2	.0						
12 01	01 1	09	40.4	0.	234	0.	359	0.006	40.	272.	-28.1	0.15	2.40	
0.31	2.10	81.	10.	.1	289	.2	2	.0						
12 01	01 1	10 1	12.6	0.	246	0.	742	0.005	129.	293.	-11.8	0.15	2.40	
0.24	1.99	101.	10.	.1	296	.4	2	.0						
12 01	01 1	11 1	61.0	0.	402	1.	188	0.005	369.	611.	-35.6	0.15	2.40	
0.21	3.68	78.	10.	.1	298	.8	2	.0						
12 01	01 1	12 1	.84.7	0.	.337	1.	516	0.005	668.	473.	-18.4	0.15	2.40	
0.20	2.89	68.	10.	.1	300	.4	2	.0						
12 01	01 1	13 1	.83.9	0.	310	1.	809	0.005	1139.	414.	-14.2	0.15	2.40	
0.20	2.57	64.	10.	. 1	302	.5	2	.0						
12 01	01 1	14 1	56.6	0.	374	1.	852	0.005	1434.	549.	-29.5	0.15	2.40	
0.22	3.37	63.	10.	.1	303	.1	2	.0						
12 01	01 1	15 1	.04.3	0.	.382	1.	658	0.005	1546.	567.	-47.2	0.15	2.40	
0.25	3.59	62.	10.	.1	302	.5	2	.0						
12 01	01 1	16	31.8	0.	374	1.	123	0.005	1573.	550.	-145.8	0.15	2.40	
0.34	3.76	69.	10.	. 1	300.	.9	2	.0						
12 01	01 1	17 -	23.3	0.	276	-9.	000	-9.000	-999.	354.	84.0	0.15	2.40	
0.62	3.03	59.	10.	.1	297	.5	2	.0						
12 01	01 1	18 -	21.5	0.	.229	-9.	000	-9.000	-999.	264.	57.8	0.15	2.40	
1.00	2.54	54.	10.	.1	295	.4	2	.0						
12 01	01 1	19 -	19.3	0.	204	-9.	000	-9.000	-999.	221.	45.6	0.15	2.40	
1.00	2.27	79.	10.	1	292	.0	2	.0						
12 01	01 1	20 -	20.7	0.	218	-9.	000	-9.000	-999.	244.	52.2	0.15	2.40	
1.00	2.42	79.	10.	.1	292	.5	2	.0						
12 01	01 1	21 -	19.7	0.	206	-9.	000	-9.000	-999.	225.	46.9	0.15	2.40	
1.00	2.30	95.	10.	.1	290.	.9	2	.0						

12 01 01 1 22 -17.6 0.190 -9.000 -9.000 -999. 199. 39.8 0.15 2.40 1.00 2.13 78. 10.1 290.4 2.0 12 01 01 1 23 -20.3 0.211 -9.000 -9.000 -999. 233. 49.0 0.15 2.40 2.35 52. 10.1 289.2 1.00 2.0 12 01 01 1 24 -16.4 0.183 -9.000 -9.000 -999. 189. 37.0 0.15 2.40 1.00 2.06 75. 10.1 288.8 2.0 First hour of profile data YR MO DY HR HEIGHT FWDIRWSPD AMB\_TMP sigmaAsigmaWsigmaV12 01 01 0110.1 155.2.93288.299.0-99.00-99.00 F indicates top of profile (=1) or below (=0) ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 HRA\CO\CO.ISC \*\*\* 11/11/21 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* \*\*\* 12:18:15 PAGE 12 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\* \*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\* INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000008 , L0000009 , L0000010 L0000006 , L0000007 , L0000012 , L0000013 , L0000011 ر L0000014 , L0000015 , L0000016 , L0000017 , L0000018 ,L0000020 ,L0000021 , L0000019 , L0000023 , L0000024 , L0000025 , L0000026 L0000022 ر \*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\* \*\* CONC OF CO IN MICROGRAMS/M\*\*3 \*\* X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) . . . . . . . . . . . . 449368.02 3758763.53 113.74211 (13112916) 449371.89 3758763.53 107.57085 (13062606) 449375.76 3758763.53 103.18636 (13062606) 449379.63 99.13095 (13062606) 3758763.53 449387.37 449383.50 3758763.53 95.41590 (13062606) 91.96557 (13062606) 3758763.53 449391.24 3758763.53 88.74486 (13062606) 449395.11 3758763.53 85.73398 (13062606)

449398.98	3758763.53	82.91200	(13062606)	449402.85
3758763.53	80.26130 (130626	06)		
449406.72	3758763.53	77.76901	(13062606)	449410.59
3758763.53	75.42720 (130626	06)		
449414.46	3758763.53	73.23981	(13062606)	449418.33
3758763.53	71.16881 (130626	06)		
449422.20	3758763.53	69.20488	(13062606)	449426.07
3758763.53	67.33964 (130626	06)		
449429.94	3758763.53	65.56559	(13062606)	449433.81
3758763.53	63.87593 (130626	06)		
449437.68	3758763.53	62.26464	(13062606)	449441.55
3758763.53	60.73690 (130626	06)		
449445.42	3758763.53	59.28035	(13062606)	449368.02
3758777.57	113.85977 (131129	16)		
449371.89	3758777.57	107.84194	(13062606)	449375.76
3758777.57	103.39916 (130626	06)		
449379.63	3758777.57	99.29216	(13062606)	449383.50
3758777.57	95.57230 (130626	06)		
449387.37	3758777.57	92.11420	(13062606)	449391.24
3758777.57	88.89413 (130626	06)		
449395.11	3758777.57	85.88038	(13062606)	449398.98
3758777.57	83.05627 (130626	06)		
449402.85	3758777.57	80.40367	(13062606)	449406.72
3758777.57	77.90693 (130626	06)		
449410.59	3758777.57	75.56499	(13062606)	449414.46
3758777.57	73.38291 (130626	06)		
449418.33	3758777.57	71.31377	(13062606)	449422.20
3758777.57	69.35138 (130626	06)		
449426.07	3758777.57	67.48745	(13062606)	449429.94
3758777.57	65.71449 (130626	06)		
449433.81	3758777.57	64.02578	(13062606)	449437.68
3758777.57	62.41526 (130626	06)		
449441.55	3758777.57	60.89350	(13062606)	449445.42
3758777.57	59.44908 (130626	06)		
449368.02	3758791.61	114.32472	(13112916)	449371.89
3758791.61	108.23141 (130626	06)		
449375.76	3758791.61	103.82829	(13062606)	449379.63
3758791.61	99.75586 (130626	06)	(	
449383.50	3758791.61	96.02365	(13062606)	449387.37
3758791.61	92.55403 (130626	06)	(	
449391.24	3758791.61	89.31929	(13062606)	449395.11
3758791.61	86.29886 (130626	06)	(	
449398.98	3758791.61	83.46512	(13062606)	449402.85
3/58/91.61	80.8034/ (130626	06)	(12050505)	
449406.72	3/58/91.61	/8.29815	(13062606)	449410.59
3/58/91.61	/5.94/54 (130626	06)	(12050505)	
449414.46	3/58/91.61	/3.75299	(13062606)	449418.33
3/58/91.61	/1.6/516 (130626	06)	(12052555)	
449422.20	3/58/91.61	69./0/34	(13062606)	449426.07
3/58791.61	67.83567 (130626	06)		

449429.94	3758791.0	61 66.	05540	(13062606)		449433.81
3758791.61	64.35976	(13062606)	71761	(12062606)		110111 EE
3758791.61	61,20519	01 02. (13062606)	74204	(13002000)		449441.55
449445.42	3758791.0	61   59.	74376	(13062606)		449368.02
3758805.65	114.63354	(13112916)		(		
449371.89	3758805.0	65 108.	60477	(13062606)		449375.76
3758805.65	104.23014	(13062606)		· · · · ·		
449379.63	3758805.0	65 100.	19029	(13062606)		449383.50
3758805.65	96.44602	(13062606)				
449387.37	3758805.0	65 92.	96554	(13062606)		449391.24
3758805.65	89.72049	(13062606)				
449395.11	3758805.0	65 86.	68713	(13062606)		449398.98
3758805.65	83.84756	(13062606)				
449402.85	3758805.0	65 81.	17748	(13062606)		449406.72
3758805.65	78.66414	(13062606)				
449410.59	3758805.0	65 76.	30536	(13062606)		449414.46
3758805.65	74.10185	(13062606)				
449418.33	3758805.0	65 72.	01562	(13062606)		449422.20
3758805.65	70.03728	(13062606)				
449426.07	3758805.0	65 68.	15836	(13062606)		449429.94
3758805.65	66.37363	(13062606)				
···· AERMEI - VER	\$10N 10210 ***	12:18	:15			
		PAGE	13			
*** MODELOPTs:	RegDFAULT	CONC ELEV	URBAN	I ADJ_U*		
		*** THE	1ST HIG	HEST 1-HR	AVERAGE CON	CENTRATION
VALUES FOR SOURCE	GROUP: AL	L ***				
		INCLUD	ING SOL	JRCE(S):	L0000001	, L0000002
, L0000003 ,	L0000004	, L0000005	ر			
	L0000006	, L0000007	, L0	800000	, L0000009	, L0000010
,L0000011 ,	L0000012	, L0000013	ر			
	L0000014	, L0000015	, L0	000016	, L0000017	, L0000018
, L0000019 ,	L0000020	, L0000021	ر			
	L0000022	, L0000023	, L0	000024	, L0000025	, L0000026
J						
			**	* DISCRETE	CARTESIAN RE	ECEPTOR POINTS
***						
			** CONC	COF CO	IN MICROGE	RAMS/M**3
	**					
X-COORD (M)	Y-COORD (I		NC	(YYMMDDHH)		X-COORD (M)
	1 1 11/11					

Y-COORD (M) CONC (YYMMDDHH)

449433.81	3758805.65	64.67141	(13062606)	449437.68
3758805.65	63.04808 (130	62606)		
449441.55	3758805.65	61.49810	(13062606)	449445.42
3/58805.65	60.01645 (130	62606)	(	
449368.02	3758819.69	114.79449	(13112916)	449371.89
3758819.69	108.87533 (130	62606)		
449375.76	3758819.69	104.49299	(13062606)	449379.63
3758819.69	100.44306 (130	62606)		
449383.50	3758819.69	96.69021	(13062606)	449387.37
3758819.69	93.20200 (130	62606)		
449391.24	3758819.69	89.95018	(13062606)	449395.11
3758819.69	86.91399 (130	62606)		
449398.98	3758819.69	84.06575	(13062606)	449402.85
3758819.69	81.39066 (130	62606)		
449406.72	3758819.69	78.87277	(13062606)	449410.59
3758819.69	76.51010 (130	62606)		
449414.46	3758819.69	74.30361	(13062606)	449418.33
3758819.69	72.21457 (130	62606)		
449422.20	3758819.69	70.23353	(13062606)	449426.07
3758819.69	68.35454 (130	62606)		
449429.94	3758819.69	66.56487	(13062606)	449433.81
3758819.69	64.86028 (130	62606)		
449437.68	3758819.69	63.23465	(13062606)	449441.55
3758819.69	61.68245 (130	62606)	· · · ·	
449445.42	3758819.69	60.19864	(13062606)	449368.02
3758833.73	114.99311 (131	12916)	· · · ·	
449371.89	3758833.73	109.11714	(13062606)	449375.76
3758833.73	104.72517 (130	62606)		
449379.63	3758833.73	100.66636	(13062606)	449383.50
3758833.73	96.90562 (130	62606)	· · · · ·	
449387.37	3758833.73	93.41039	(13062606)	449391.24
3758833.73	90.15229 (130	62606)	· · · ·	
449395.11	3758833.73	87.11060	(13062606)	449398.98
3758833.73	84.25729 (130	62606)	( /	
449402.85	3758833.73	81.57762	(13062606)	449406.72
3758833.73	79.05557 (130	62606)	(	
449410.59	3758833.73	76.68943	(13062606)	449414.46
3758833.73	74,48044 (130	62606)	(19002000)	
449418.33	3758833.73	72,38901	(13062606)	449422,20
3758833,73	70,40571 (130	62606)	(19002000)	113122.20
449426 07	3758833 73	68 52461	(13062606)	119129 91
3758833 73	66 73286 (130	62606)	(19002000)	++2+22.24
//0/22 81	3758833 73	65 02626	(13062606)	110137 68
3758833 73	63 39869 (130	62606)	(19002000)	+++
//Q//1 EE	3758833 73	61 Q1/61	(13062606)	11011E 12
447441.JJ	60 25007 (100	62606)	(13002000)	445445.42
C1.5500515	275001) 160000	116 AEAEA	(12112016)	110271 00
449000.02 2750017 77	J/J004/.// 100 70515 (101	12016)	(1)112310)	449071.89
J/JOO4/.// AA0375 76	בבנטיינטי בב בעסובנ	105 10405	(12062606)	110270 62
4493/3./6	2/2004/.//	102.19405	(12002000)	4493/9.63

3758847.77 101.137	63 (13062606)		
449383.50 3758	847.77 97.3654	0 (13062606)	449387.37
3758847.77 93.861	.41 (13062606)		
449391.24 3758	847.77 90.5922	0 (13062606)	449395.11
3758847.77 87.536	16 (13062606)		
449398.98 3758	847.77 84.6726	2 (13062606)	449402.85
3758847.77 81.983	08 (13062606)		
449406.72 3758	847.77 79.4544	9 (13062606)	449410.59
3758847.77 77.072	53 (13062606)	(1200200)	440440.22
	84/.// /4.8381	1 (13062606)	449418.33
3/5884/.// /2./2		1 (12002000)	440406 07
	(12062606)	1 (13062606)	449426.07
3/5884/.// 68.810	(13002000)	7 (12062606)	110122 01
449429,94 3730 2750047 77 65 201	12 (12062606)	(13002000)	449455.81
	(13002000)	1 (12062606)	110111 55
2750047 77 62 073	12062606)	4 (13002000)	449441.99
3730047.77 02.073 //Q//5_/23759	(13002000)	1 (13062606)	110368 02
3758861 81 117 350	(13112916)	1 (15002000)	449508.02
AA9371 89 3758	$861 \ 81 \ 111 \ 0655$	9 (13112916)	449375 76
3758861 81 105 628	82 (13062606)	) (19112910)	
449379,63 3758	861.81 101.5820	6 (13062606)	449383.50
3758861.81 97.816	16 (13062606)	(19002000)	115565156
449387.37 3758	861.81 94.2977	4 (13062606)	449391.24
3758861.81 91.023	11 (13062606)	()	
449395.11 3758	861.81 87.9620	7 (13062606)	449398.98
3758861.81 85.091	41 (13062606)		
449402.85 3758	861.81 82.3940	1 (13062606)	449406.72
3758861.81 79.855	05 (13062606)		
449410.59 3758	861.81 77.4622	0 (13062606)	449414.46
3758861.81 75.203	60 (13062606)		
★ *** AERMOD - VERSION	19191 *** *** C:\L	AKES\AERMOD VIEW\14	172 HRA\CO\CO.ISC
	*** 11/11/2	1	
*** AERMET - VERSION 1	.6216 *** ***		
	*** 12:18:15		
	PAGE 14		
*** MODELOPTs: RegDF	AULT CONC ELEV UR	BAN ADJ_U*	
		HIGHEST I-HK AVERA	GE CONCENTRATION
VALUES FOR SOURCE GROUP:			
		SOURCE(S): L000	0001 , L0000002
	14 , L0000003 ,	10000008 1000	0000 10000010
	2 $10000007$ ,	L0000000 , L000	, 10000010
, LUUUUUU , LUUUUU	4   0000015 ,	10000016 1000	0017 I 000001 Q
	0 . 10000010 ,		, L000010
L000002	2 L0000023	L0000024 . L000	0025 L0000026
,			, <u>20000020</u>
,			

## \*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

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\*\*

\*\* CONC OF CO IN MICROGRAMS/M\*\*3

X-COORD (M) Y-COORD (M)	Y-COORD( CONC	M) CC (YYMMDDHH)	DNC	(YYMMDDHH)	X-1	COORD (M)
			·			
449418.33	3758861.	81 73.	06543	(13062606)		449422.20
3758861.81	71.03825	(13062606)		(		
449426.07	3/58861.	81 69.	11536	(13062606)		449429.94
3/58861.81	67.28458	(13062606)	- 44 4 4	(12052505)		440427 60
449433.81	3/58861.	81 65.	54111	(13062606)	·	449437.68
3/58801.81		(13062606)	20201	(12002000)		440445 42
449441.55	3/3880L.	$\delta I \qquad \delta Z$	30391	(13062606)		449445.42
3/58801.81	00.808/1	(13062606)	04204	(12112016)		440271 00
449500.02 2750075 05	5/500/5. 111 69//6	05 II/. (12112016)	04304	(13112910)		+49571.09
	2750075	(13112910)	0140E	(12112016)		110270 62
4495/5./0 2750075 05	5/500/5. 101 07605	05 100. (13063606)	01495	(13112910)		+495/9.05
	2750075		11225	(12062606)		110207 27
449303.JU	5750075.	0J 90. (12062606)	11233	(13002000)	·	+49507.57
1/0201 2/	2750075	(13002000) 95 01	22650	(12062606)		110205 11
449591.24 3750075 05	2720072. 88 25006	(13062606)	52050	(13002000)	·	+49595.11
20 2020NN	3758875	85 85	3871/	(13062606)		119102 85
3758875 85	82 68528	(13062606)	50714	(13002000)	·	+49402.05
1/9/06 72	3758875	85 80	1/1/6	(13062606)		119110 59
3758875 85	77 74140	(13062606)	14140	(19002000)		++)+10.55
AA9A1A A6	3758875	85 75	47318	(13062606)		449418 33
3758875 85	73 32774	(13062606)		(19002000)		+
449422 20	3758875	85 71	29135	(13062606)		449426 07
3758875 85	69 35729	(13062606)	27177	(19002000)		+
449429.94	3758875	85 67	51786	(13062606)		449433 81
3758875.85	65.76599	(13062606)	51,00	(19002000)		
449437.68	3758875.	85 64.	09742	(13062606)		449441.55
3758875.85	62,51618	(13062606)	••••	(		
449445.42	3758875.	85 61.	01625	(13062606)		449368.02
3758889.89	118.00060	(13112916)		(		
449371.89	3758889.	89 111.	81341	(13112916)		449375.76
3758889.89	106.17857	(13112916)		· · ·		
449379.63	3758889.	89 102.	11768	(13062606)		449383.50
3758889.89	98.35452	(13062606)		· · ·		
449387.37	3758889.	89 94.	84451	(13062606)		449391.24
3758889.89	91.56909	(13062606)		. ,		
449395.11	3758889.	89 88.	50057	(13062606)		449398.98
3758889.89	85.62322	(13062606)		•		
449402.85	3758889.	89 82.	91886	(13062606)		449406.72
3758889.89	80.37137	(13062606)		·		

	449410.59	3758889.89	77.96701	(13062606)	449414.46
	3758889.89	75.69486 (1306	2606)		
	449418.33	3758889.89	73.54318	(13062606)	449422.20
	3758889.89	71.50488 (1306	2606)		
	449426.07	3758889.89	69.56691	(13062606)	449429.94
	3758889.89	67.72378 (1306	2606)		
	449433.81	3758889.89	65.96825	(13062606)	449437.68
	3758889.89	64.29418 (1306	2606)		
	449441.55	3758889.89	62.71072	(13062606)	449445.42
	3758889.89	61.20633 (1306	2606)	. ,	
	449368.02	3758903.93	117.68449	(13112916)	449371.89
	3758903.93	111.56994 (1311	2916)	· · · ·	
	449375.76	3758903.93	106.37655	(13062606)	449379.63
	3758903.93	102.32171 (1306	2606)	(,	
	449383.50	3758903.93	98,56786	(13062606)	449387.37
	3758903 93	95 06975 (1306	2606)	(19002000)	++5507:57
	1/0201 2/	3758003 03	Q1 802/17	(13062606)	1/0305 11
	2750002 02	00 7/176 (1206	2606)	(13002000)	449595.11
	2/2020202	2750002 02		(12062606)	440402 85
	449090.90	07 16E07 (1006	2606)	(12002000)	449402.85
	3/30203.93	00.10007 (1000	2000)	(12002000)	440410 50
	449406.72	3/58903.93	80.61834	(13062606)	449410.59
	3/58903.93	/8.211/3 (1306	2606)	(42052505)	440440.22
	449414.46	3/58903.93	/5.93185	(13062606)	449418.33
	3/58903.93	/3.//259 (1306	2606)	( . <b>.</b>	
	449422.20	3758903.93	71.72387	(13062606)	449426.07
	3758903.93	69.77745 (1306	2606)		
	449429.94	3758903.93	67.92567	(13062606)	449433.81
	3758903.93	66.16149 (1306	2606)		
	449437.68	3758903.93	64.47885	(13062606)	449441.55
	3758903.93	62.88609 (1306	2606)		
	449445.42	3758903.93	61.37926	(13062606)	449368.02
	3758917.97	117.36335 (1311	2916)		
	449371.89	3758917.97	111.21219	(13112916)	449375.76
	3758917.97	106.50657 (1306	2606)		
	449379.63	3758917.97	102.45042	(13062606)	449383.50
	3758917.97	98.71411 (1306	2606)		
	449387.37	3758917.97	95.22830	(13062606)	449391.24
	3758917.97	91.97855 (1306	2606)		
	449395.11	3758917.97	88.93049	(13062606)	449398.98
	3758917.97	86.07255 (1306	2606)	· · · · ·	
1	*** AERMOD - VE	RSION 19191 ***	*** C:\LAK	ES\AERMOD VIE	W\14172 HRA\CO\CO.ISC
		***	11/11/21		
	*** AERMET - VERS	SION 16216 ***	***		
		***	12:18:15		
			PAGE 15		
	*** MODELOPTs.			Ν ΔΠΤΙΙ*	
		***	THE 1ST HT	GHEST 1-HR A	VERAGE CONCENTRATION
1			***	SHEDT I HK A	VENUGE CONCENTRATION
v	ALULU I UN DUUNCE	GROUP. ALL			

			INCLUDING S	SOURCE(S):	L0000001 ,	L0000002
,	L0000003	, L0000004	,L0000005 ,			
		L000006	,L000007 ,	L000008 ,	L0000009 ,	L0000010
,	L0000011	, L0000012	, L0000013 ,			
		L0000014	,L0000015 ,	L0000016 ,	L0000017 ,	L0000018
,	L0000019	, L0000020	, L0000021 ,			
		L0000022	,L0000023 ,	L0000024 ,	L0000025 ,	L0000026

## \*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\* CONC OF CO IN MICROGRAMS/M\*\*3

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X-COORD (M Y-COORD (M)	) Y-COORD (I CONC	M) CONC (YYMMDDHH)	(YYMMDDHH)	X-COORD (M)
449402.8	5 3758917.	97 83.37890	 (13062606)	449406.72
3/5891/.9/	80.84215	(13062606)	(12052505)	440414 46
449410.5 2750017 07	76 15065	9/ /0.43914 (13063606)	(13002000)	449414.40
ΔΔ9Δ18 3	3 3758917	97 73 99486	(13062606)	449422 20
3758917.97	71,93773	(13062606)	(19002000)	
449426.0	7 3758917.9	97 69.98140	(13062606)	449429.94
3758917.97	68.11664	(13062606)	(	
449433.8	1 3758917.	97 66.34059	(13062606)	449437.68
3758917.97	64.64561	(13062606)	· · · · · ·	
449441.5	5 3758917.	97 63.04617	(13062606)	449445.42
3758917.97	61.53368	(13062606)		
449368.0	2 3758932.	01 117.24972	(13112916)	449371.89
3758932.01	111.05936	(13112916)		
449375.7	6 3758932.	01 106.60948	(13062606)	449379.63
3758932.01	102.54649	(13062606)		
449383.5	0 3758932.0	98.81176	(13062606)	449387.37
3758932.01	95.34265	(13062606)		
449391.2	4 3758932.	92.09478	(13062606)	449395.11
3758932.01	89.05935	(13062606)	(	
449398.9	8 3758932.0	01 86.20470	(13062606)	449402.85
3/58932.01	83.52340	(13062606)	(12052505)	140440 50
449406./	2 3/58932.0	01 80.99020 (12062606)	(13062606)	449410.59
3/58932.0L	/8.59909 6 3750020 /	(13002000) 01 76 22470	(12062606)	440418 22
449414.4 2758022 01	7/ 16127	01 70.52470 (13062606)	(13002000)	449418.55
77272101 77972701 77972701	0 3758932 (	(13002000)	(13062606)	119126 07
3758932 01	70 14656	(13062606)	(19002000)	449420.07
449429.9	4 3758932	( <u>1</u> )	(13062606)	449433,81
3758932.01	66.49535	(13062606)	(19002000)	
449437.6	8 3758932.0	01 64.79460	(13062606)	449441.55
			· · · · · · · · · /	

3758932.01 63.18771 (13062606)		
449445.42 3758932.01 61.66703	(13062606)	449368.02
3758946.05 116.79359 (13112916)		
449371.89 3758946.05 111.12846	(13062606)	449375.76
3758946.05 106.71678 (13062606)		
449379.63 3758946.05 102.66927	(13020301)	449383.50
3758946.05 98.92518 (13062606)		
449387.37 3758946.05 95.44744	(13062606)	449391,24
3758946.05 92.20730 (13062606)	(19002000)	
<i>44</i> 9395 11 3758946 05 89 16686	(13062606)	449398 98
3758946 05 86 31719 (13062606)	(19002000)	
1/0/02 85 37580/6 05 83 63287	(13062606)	110106 72
2759046 65 91 10420 (12062606)	(15002000)	449400.72
	(12062606)	110111 16
449410.59 $5750940.05$ $76.71227$	(15062000)	449414.40
3/38940.03 /0.4433/ (13002000)	(12062606)	440422 20
449418.33 3758946.05 74.28573	(13062606)	449422.20
3758946.05 72.23009 (13062606)	(122522)	
449426.0/ 3/58946.05 /0.2/410	(13062606)	449429.94
3758946.05 68.40698 (13062606)		
449433.81 3758946.05 66.62432	(13062606)	449437.68
3758946.05 64.92156 (13062606)		
449441.55 3758946.05 63.30822	(13062606)	449445.42
3758946.05 61.77723 (13062606)		
449368.02 3758960.09 117.44271	(13020301)	449371.89
3758960.09 114.00794 (13020301)		
449375.76 3758960.09 110.73061	(13020301)	449379.63
3758960.09 107.54168 (13020301)		
449383.50 3758960.09 99.23220	(13020301)	449387.37
3758960.09 95.59521 (13020301)		
449391.24 3758960.09 92.29933	(13062606)	449395.11
3758960.09 89.25618 (13062606)		
449398.98 3758960.09 86.40708	(13062606)	449402.85
3758960.09 83.72151 (13062606)		
449406.72 3758960.09 81.19432	(13062606)	449410.59
3758960.09 78.80366 (13062606)		
449414.46 3758960.09 76.54037	(13062606)	449418.33
3758960.09 74.38741 (13062606)		
449422.20 3758960.09 72.33528	(13062606)	449426.07
3758960.09 70.38095 (13062606)		
449429.94 3758960.09 68.51665	(13062606)	449433.81
3758960.09 66.73559 (13062606)		
449437.68 3758960.09 65.03285	(13062606)	449441.55
3758960.09 63.41410 (13062606)	(,	
449445.42 3758960.09 61.87106	(13062606)	449368.02
3758974.13 117.45738 (13112916)	(,	
<u>449371,89 3758974 13 112 62560</u>	(13020301)	449375 76
3758974,13 109 44718 (13020301)	(	1.5575.70
<u><i>A</i></u> <u></u>	(13020301)	449383 50
3758974 13 99 15525 (13062606)	(19020901)	
▲ *** AEDMOD _ \/EDCTON 10101 *** *** C·\\//	EC AERMOD VITELIA 14172 UPA	
T AENHOU - VENSION ISISI C. LAN	LO VERVION VIEN (141/2 HKA)	

11/11/21 \*\*\* \*\*\* AERMET - VERSION 16216 \*\*\* 12:18:15 PAGE 16 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\* \*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\* INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000008 , L0000009 , L0000010 L0000006 , L0000007 , L0000011 , L0000012 , L0000013 L0000014 ,L0000016 ,L0000017 ,L0000018 , L0000015 , L0000020 , L0000019 , L0000021 , L0000024 , L0000025 L0000022 , L0000023 , L0000026 **\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS** \*\*\* \*\* CONC OF CO IN MICROGRAMS/M\*\*3 \*\* X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) - - - - - -449387.37 3758974.13 95.65635 (13062606) 449391.24 3758974.13 92.39608 (16092620) 449395.11 3758974.13 89.34781 (13062606) 449398.98 3758974.13 86.48550 (13062606) 449402.85 3758974.13 83.80013 (13062606) 449406.72 3758974.13 81.26558 (13062606) 449410.59 3758974.13 78.87453 (13062606) 449414.46 3758974.13 76.61633 (13062606) 449418.33 3758974.13 74.46799 (13062606) 449422.20 3758974.13 72.42194 (13062606) 449426.07 3758974.13 70.46919 (13062606) 449429.94 3758974.13 68.60673 (13062606) 449433.81 3758974.13 66.82791 (13062606) 449437.68 3758974.13 65.12684 (13062606) 449441.55 3758974.13 63.50241 (13062606) 449445.42 61.95145 (13062606) 3758974.13 449368.02 3758988.17 117.65419 (13112916) 449371.89 3758988.17 111.58469 (13062606) 449375.76 3758988.17 108.43866 (13020301) 449379.63 3758988.17 105.48363 (13020301) 449383.50 3758988.17 99.26961 (13062606) 449387.37 3758988.17 95.75654 (13062606)

449391.24	3758988.17	92.48121	(13062606)	449395.11
3758988.17	89.60431 (160926	20)		
449398.98	3758988.17	86.55550	(13062606)	449402.85
3758988.17	83.85907 (130626	06)		
449406.72	3758988.17	81.31999	(13062606)	449410.59
3758988.17	78.93210 (130626	06)		
449414.46	3758988.17	76.67147	(13062606)	449418.33
3758988.17	74.52749 (130626	06)		
449422.20	3758988.17	72.48490	(13062606)	449426.07
3758988.17	70.53553 (130626	06)		
449429.94	3758988.17	68.67692	(13062606)	449433.81
3758988.17	66.90010 (130626	06)		
449437.68	3758988.17	65.20116	(13062606)	449441.55
3758988.17	63.57466 (130626	06)		
449445.42	3758988.17	62.01697	(13062606)	449368.02
3759002.21	L20.77056 (130203	01)		
449371.89	3759002.21	117.33596	(13020301)	449375.76
3759002.21	L14.05695 (130203	01)		
449379.63	3759002.21	110.86206	(13020301)	449383.50
3759002.21	L02.61896 (130203	01)		
449387.37	3759002.21	99.18416	(13020301)	449391.24
3759002.21	92.54492 (130626	06)		
449395.11	3759002.21	89.48356	(13062606)	449398.98
3759002.21	86.88958 (160926	20)		
449402.85	3759002.21	83.92070	(13062606)	449406.72
3759002.21	81.37950 (130626	06)	(12050505)	
449410.59	3759002.21	/8.98564	(13062606)	449414.46
3/59002.21	/6./1828 (130626	06)	(12052505)	440400.00
449418.33	3/59002.21	/4.56885	(13062606)	449422.20
3/59002.21	/2.52290 (130626	06)	(12052505)	440420.04
449426.07	3/59002.21	/0.5//34	(13062606)	449429.94
3/59002.21	68.72119 (130626	06)	(12062606)	440427 60
449433.81	3/59002.21	66,94869	(13062606)	449437.68
3/59002.21			(12062606)	440445 42
449441.00	5/59002.21	05.05529	(13002000)	449445.42
140269 02	2750016 25	121 26002	(12020201)	440371 80
449308.02	3/39010.25 (120202) 120200	121.36092	(13020301)	449371.89
	2750016 25	114 92060	(12020201)	440270 62
4495/5./0 2750016 25	2722010.25 111 72550 (120202	114.05009	(13020301)	449379.03
1/0202 EQ	2750016 25	107 60947	(12020201)	440287 27
2750016 25	00 46000 (120202	107.00047	(13020301)	449507.57
7759010.25 NAQ2Q1 7A	3750016 25	05 06057	(13020301)	1/0305 11
2750016 25	27 53/010.25 29 53/26 (130626	95.90957	(13020301)	449393.11
VV0308 08	2750016 25	86 68010	(16002620)	110102 85
3750016 25	8/ 12836 (160026	20.00919	(10032020)	449402.83
ΛΛΟΛΟΑ 70	3759016 25	81 17305	(13062606)	ΔΛΟΛ1Ο ΕΟ
3759016 25	79,02029 (130626	.06)	(19002000)	++>+10.59
449414,46	3759016.25	76.75027	(13062606)	449418 33
3759016.25	74,59382 (130626		()	
		/		

449422.20 3759016.25 72.54967 (13062606) 449426.07 3759016.25 70.60167 (13062606) 449429.94 3759016.25 68.74931 (13062606) 449433.81 3759016.25 66.98016 (13062606) 449437.68 3759016.25 65.29407 (13062606) 449441.55 3759016.25 63.67537 (13062606) 449445.42 3759016.25 62.11875 (13062606) 449368.02 3759030.29 118.37477 (13112916) ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 HRA\CO\CO.ISC \*\*\* 11/11/21 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* \*\*\* 12:18:15 PAGE 17 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ U\* \*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\* INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 L0000006 , L0000008 , L0000009 , L0000010 , L0000007 , L0000012 , L0000013 , L0000011 L0000014 , L0000015 , L0000016 , L0000017 , L0000018 ,L0000020 ,L0000021 , L0000019 , L0000023 , L0000024 , L0000025 , L0000026 L0000022 ر \*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\* \*\* CONC OF CO IN MICROGRAMS/M\*\*3 \*\* X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) 449371.89 3759030.29 114.29448 (13020301) 449375.76 3759030.29 111.20308 (13020301) 449379.63 3759030.29 108.20856 (13020301) 449383.50 3759030.29 100.08868 (13020301) 449387.37 3759030.29 96.98070 (16092620) 449391.24 3759030.29 92.70075 (13062606) 449395.11 3759030.29 89.62094 (13062606) 449398.98 3759030.29 86.73712 (13062606) 449402.85 3759030.29 84.01990 (13062606) 449406.72 3759030.29 81.46301 (13062606) 449410.59 3759030.29 79.04445 (13062606) 449414.46 3759030.29 76.76100 (13062606) 449418.33 3759030.29 74.59642 (13062606) 449422.20

	3759030.29	72.54092	(13062606)			
	449426.07	3759030.	29 70.5	9103 (130	62606)	449429.94
	3759030.29	68.73478	(13062606)			
	449433.81	3759030.	29 66.9	6665 (130	62606)	449437.68
	3759030.29	65.27937	(13062606)			
	449441.55	3759030.	29 63.6	5952 (130	62606)	449445.42
	3759030.29	62.09944	(13062606)			
	449368.02	3759044.	33 119.3	3141 (131	.12916)	449371.89
	3759044.33	113.09461	(13112916)			
	449375.76	3759044.	33 107.5	9390 (130	62606)	449379.63
	3759044.33	103.44447	(13062606)			
	449383.50	3759044.	33 99.6	3416 (130	62606)	449387.37
	3/59044.33	96.08224	(13062606)			440205 44
	449391.24	3759044.	33 92.7	/3// (130	62606)	449395.11
	3/59044.33	89.6/361	(13062606)	(120		440402 05
	449398.98	3/59044.	33 80./ (12062606)	6849 (130	62606)	449402.85
	3/39044.33	2750044			(2606)	440410 50
	3750011 33	5759044. 70 02511	22 (13062606)	.5/5/ (150	02000)	449410.59
	AA9A1A A6	3759044	33 76 7	3263 (130	62606)	119118 33
	3759044 33	74 56459	(13062606)	5205 (150	02000)	++)+10.))
	449422 20	3759044	33 72 5	0831 (130	62696)	449426 07
	3759044,33	70.55552	(13062606)	0051 (150	02000)	++>+20.07
	449429.94	3759044.	33 68.7	0112 (130	62606)	449433.81
	3759044.33	66,93364	(13062606)	(		
	449437.68	3759044.	33 65.2	4900 (130	62606)	449441.55
	3759044.33	63.62873	(13062606)	<b>`</b>	,	
	449445.42	3759044.	33 62.0	6537 (130	62606)	
				•		
	★ *** AERMOD - VE	RSION 1919	91 *** *** (	:\LAKES\AE	RMOD VIEW\1417	2 HRA\CO\CO.ISC
		**	* 11/1	1/21		
	*** AERMET - VER	SION 16216	*** ***			
		***	12:18:	15		
			PAGE	18		
	*** MODELOPTs:	RegDFAULT	CONC ELEV	URBAN AD	J_U*	
_			*** THE 1	ST HIGHEST	8-HR AVERAGE	CONCENTRATION
,	VALUES FOR SOURCE	GROUP: AL	L ***			
			INCLUDI	NG SOURCE(	S): L000000	01 , L0000002
	, L0000003 ,	L0000004	, L0000005	,		
	10000011	L0000006	, L0000007	, L00000	108 , L00000	09 ,L0000010
	, L0000011 ,		, L0000013	,		17 10000000
	10000010	10000014	, L0000015	, L00000	, L00000	1/ , L0000018
	, 10000019 ,		, L0000021	,		
		10000022	, L0000023	, 100000	24 , L00000	20, 10000026
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\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

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X-COORD (M) Y-COORD (M)	Y-COORD( CONC	M) CONC (YYMMDDHH)	(YYMMDDHH)	X-COORD (M)
			· -	
449368.02	3758763.	53 95.58116c	(12121708)	449371.89
3758763.53	91.54317c	(12121708)		
449375.76	3758763.	53 87.81040c	(12121708)	449379.63
3758763.53	84.35686c	(12121708)		
449383.50	3758763.	53 81.19557c	(12121708)	449387.37
3758763.53	78.25942c	(12121708)		
449391.24	3758763.	53 75.51813c	(12121708)	449395.11
3758763.53	72.95520c	(12121708)	(	
449398.98	3758763.	53 70.55285c	(12121708)	449402.85
3/58/63.53	68.29614c	(12121/08)	(40404700)	
449406.72	3/58/63.	53 66.1/435C	(12121/08)	449410.59
3/58/63.53	64.181100	(12121/08)	(10101700)	440440 22
449414.46	3/58/63.	53 62.32082C	(12121/08)	449418.33
3/58/03.53	60.55940C	(12121/08)	(10101700)	440426 07
449422.20	3/38/03.	55 58.88894C (10101700)	(12121708)	449426.07
3/38/03.53	57.302330	(12121/08)	(10101700)	440422 81
449429.94	3/58/03.	55 55./932IC	(12121708)	449433.81
2/20/02.22	24.32200C	(12121/00)	(10101700)	440441 55
449437.00	51 685010	22,90000 (10101708)	(12121708)	449441.55
1/9//5 /2	3758763	(12121700) 53 50 //75/c	(12121708)	119368 02
3758777 57	95 85747c	(12121708)	(12121/00)	449908.02
<i>11</i> 9371 89	3758777	(12121700) 57 91 76629c	(12121708)	449375 76
3758777 57	87 98086c	(12121708)	(12121/00)	
449379 63	3758777	57 84 48085c	(12121708)	449383 50
3758777,57	81,31583c	(12121708)	(12121/00)	
449387.37	3758777.	57 78.37319c	(12121708)	449391.24
3758777.57	75.63306c	(12121708)	()	
449395.11	3758777.	57 73.06804c	(12121708)	449398,98
3758777.57	70.66425c	(12121708)	()	
449402.85	3758777.	57 68.40627c	(12121708)	449406.72
3758777.57	66.28084c	(12121708)	. ,	
449410.59	3758777.	57 64.28788c	(12121708)	449414.46
3758777.57	62.43278c	(12121708)		
449418.33	3758777.	57 60.67337c	(12121708)	449422.20
3758777.57	59.00462c	(12121708)		
449426.07	3758777.	57 57.41949c	(12121708)	449429.94
3758777.57	55.91164c	(12121708)	-	
449433.81	3758777.	57 54.47537c	(12121708)	449437.68
3758777.57	53.10553c	(12121708)		
449441.55	3758777.	57 51.81213c	(12121708)	449445.42
3758777.57	50.58508c	(12121708)		

449368.02 3758791.61 96.16354c (12121708) 449371.89 92.09940c (12121708) 3758791.61 449375.76 3758791.61 88.35109c (12121708) 449379.63 3758791.61 84.88337c (12121708) 81.70765c (12121708) 449383.50 3758791.61 449387.37 3758791.61 78.75500c (12121708) 76.00194c (12121708) 449395.11 449391.24 3758791.61 73.43126c (12121708) 3758791.61 449398.98 3758791.61 71.01907c (12121708) 449402.85 68.75319c (12121708) 3758791.61 66.62027c (12121708) 449406.72 3758791.61 449410.59 3758791.61 64.61971c (12121708) 449414.46 3758791.61 62.75355c (12121708) 449418.33 3758791.61 60.98652c (12121708) 449422.20 3758791.61 59.31310c (12121708) 449426.07 57.72118c (12121708) 3758791.61 56.20693c (12121708) 449429.94 3758791.61 449433.81 54.76457c (12121708) 3758791.61 53.38894c (12121708) 449437.68 3758791.61 449441.55 52.08144c (12121708) 3758791.61 50.83908c (12121708) 449445.42 3758791.61 449368.02 3758805.65 96.46345c (12121708) 92.41872c (12121708) 449371.89 3758805.65 449375.76 3758805.65 88.69746c (12121708) 3758805.65 85.26041c (12121708) 449379.63 449383.50 82.07429c (12121708) 3758805.65 449387.37 3758805.65 79.11228c (12121708) 449391.24 76.35029c (12121708) 3758805.65 449395.11 3758805.65 73.76823c (12121708) 449398.98 71.35111c (12121708) 3758805.65 449402.85 3758805.65 69.07790c (12121708) 449406.72 66.93798c (12121708) 3758805.65 64.93028c (12121708) 449410.59 3758805.65 449414.46 3758805.65 63.05625c (12121708) 449418.33 3758805.65 61.28185c (12121708) 449422.20 59.59910c (12121708) 3758805.65 58.00082c (12121708) 449426.07 3758805.65 449429.94 3758805.65 56.48274c (12121708) ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 HRA\CO\CO.ISC \*\*\* 11/11/21 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* \*\*\* 12:18:15 PAGE 19 RegDFAULT CONC ELEV URBAN ADJ U\* \*\*\* MODELOPTs: \*\*\* THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: ALL \*\*\* INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,

		L000006	, L000000	7 , L0000008	, L0000009	, L0000010
,	L0000011	, L0000012	, L000001	3,		
		L0000014	, L000001	5 , L0000016	, L0000017	, L0000018
,	L0000019	, L0000020	, L000002	1,		
		L0000022	, L000002	3 , L0000024	, L0000025	, L0000026

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\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\* CONC OF CO IN MICROGRAMS/M\*\*3 \*\* X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M)

Y-COORD (M)		(YYMMDDHH)		
449433.81	3758805.	.65 55.03461c	(12121708)	449437.68
3/58805.65	53.65353C	(12121/08)	(10101700)	
	3/58805.	65 52.33481C	(12121708)	449445.42
3/58805.05	51.0/4160	(12121/08)	(10101700)	440271 80
2759910 60	3/58819.	(12121700)	(12121/08)	449371.89
2/20019.09 //0275 76	2750010	(12121700)	(10101700)	440270 62
2750010 60	5750019. 95 47333c	(10101700)	(12121/08)	449379.03
1/19383 50	3758819	(12121700)	(12121708)	119387 37
3758819 69	79 31048c	(12121708)	(12121/00)	
449391.24	3758819	69 76.54282c	(12121708)	449395, 11
3758819.69	73,95865c	(12121708)	(	
449398.98	3758819.	( <u>111</u> , 00)	(12121708)	449402.85
3758819.69	69.25664c	(12121708)	()	
449406.72	3758819.	.69 67.11293c	(12121708)	449410.59
3758819.69	65.10202c	(12121708)	. ,	
449414.46	3758819.	.69 63.22558c	(12121708)	449418.33
3758819.69	61.44889c	(12121708)		
449422.20	3758819.	.69 59.76395c	(12121708)	449426.07
3758819.69	58.16587c	(12121708)		
449429.94	3758819.	.69 56.64352c	(12121708)	449433.81
3758819.69	55.19346c	(12121708)		
449437.68	3758819.	.69 53.81051c	(12121708)	449441.55
3758819.69	52.48996c	(12121708)		
449445.42	3758819.	.69 51.22754c	(12121708)	449368.02
3758833.73	96.91030c	(12121708)		
449371.89	3758833.	.73 92.84727c	(12121708)	449375.76
3/58833./3	89.11160c	(12121/08)	(40404700)	
4493/9.63	3/58833.	<i>x</i> /3 85.65853C	(12121/08)	449383.50
3/58833./3	82.458590	(12121/08)	(10101700)	440201 24
44938/.3/	3/58833.	/3 /9.484200	(12121/08)	449391.24
3/3653./3	70./1131C	$(12121/0\delta)$	(10101700)	440200 00
449395.11	3/58833.	///////////////////////////////////////	(17171/08)	449398.98

3758833.73	71.69375c (1212	1708)		
449402.85	3758833.73	69.41257c	(12121708)	449406.72
3758833.73	67.26543c (1212	1708)	<b>、</b>	
449410.59	3758833.73	, 65.25168c	(12121708)	449414.46
3758833.73	63.37325c (1212	1708)	· · ·	
449418.33	3758833.73	, 61.59467c	(12121708)	449422.20
3758833.73	59.90792c (1212	1708)	<b>、</b>	
449426.07	3758833.73	, 58.30817c	(12121708)	449429.94
3758833.73	56.78415c (1212	1708)		
449433.81	3758833.73	, 55.33248c	(12121708)	449437.68
3758833.73	53.94797c (1212	1708)	<b>、</b>	
449441.55	3758833.73	, 52.62591c	(12121708)	449445.42
3758833.73	51.36202c (1212	1708)		
449368.02	3758847.77	, 97.31768c	(12121708)	449371.89
3758847.77	93.25697c (1212	1708)		
449375.76	3758847.77	, 89.52322c	(12121708)	449379.63
3758847.77	86.07310c (1212	1708)	<b>、</b>	
449383.50	3758847.77	82.86325c	(12121708)	449387.37
3758847.77	79.88139c (1212	1708)		
449391.24	3758847.77	77.09878c	(12121708)	449395.11
3758847.77	74.49733c (1212	1708)	<b>、</b>	
449398.98	3758847.77	, 72.05951c	(12121708)	449402.85
3758847.77	69.76962c (1212	1708)	<b>、</b>	
449406.72	3758847.77	, 67.61680c	(12121708)	449410.59
3758847.77	65.58887c (1212	1708)	<b>、</b>	
449414.46	3758847.77	, 63.68747c	(12121708)	449418.33
3758847.77	61.89006c (1212	1708)	<b>、</b>	
449422.20	3758847.77	60.18345c	(12121708)	449426.07
3758847.77	58.56284c (1212	1708)	· · · ·	
449429.94	3758847.77	57.02164c	(12121708)	449433.81
3758847.77	55.55386c (1212	1708)		
449437.68	3758847.77	54.15427c	(12121708)	449441.55
3758847.77	52.82396c (1212	1708)		
449445.42	3758847.77	51.55607c	(12121708)	449368.02
3758861.81	97.67891c (1212	1708)		
449371.89	3758861.81	93.63370c	(12121708)	449375.76
3758861.81	89.90454c (1212	1708)		
449379.63	3758861.81	86.46451c	(12121708)	449383.50
3758861.81	83.25561c (1212	1708)		
449387.37	3758861.81	80.26655c	(12121708)	449391.24
3758861.81	77.47947c (1212	1708)		
449395.11	3758861.81	74.87384c	(12121708)	449398.98
3758861.81	72.42987c (1212	1708)		
449402.85	3758861.81	70.13311c	(12121708)	449406.72
3758861.81	67.97109c (1212	1708)		
449410.59	3758861.81	65.93345c	(12121708)	449414.46
3758861.81	64.01016c (1212	1708)		
★ *** AERMOD - VE	RSION 19191 ***	*** C:\LAK	ES\AERMOD VIEW\	14172 HRA\CO\CO.ISC
	***	11/11/21		
*** AERMET - VERS	SION 16216 ***	***		

\*\*\* 12:18:15

## PAGE 20

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

						***	THE	1ST	HIGHEST	8-HR	AVERAGE	CONCEN	TRATION
VA	LUES F	OR :	SOURCE	GROUP:	ALL		***						
							INCLU	DING	SOURCE(S	5):	L00000	<i>)</i> 1,	L0000002
,	L0000	003	ر	L0000004	,	L0	000005	2	,				
				L0000006	,	L0	000007	2	, L000000	8	, L00000	39,	L0000010
,	L0000	011	ر	L0000012	,	L0	000013	2	,				
				L0000014	,	L0	000015	2	, L000001	16	, L00000:	, 17	L0000018
,	L0000	019	ر	L0000020	,	L0	000021		,				
				L0000022	,	L0	000023		, L000002	24	, L00000	25 <b>,</b>	L0000026

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

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\*\* CONC OF CO IN MICROGRAMS/M\*\*3

*	*	

X-COORD (M Y-COORD (M)	I) Y-COORD (M CONC (	) CONC YYMMDDHH)	(YYMMDDHH)	X-COORD (M)
449418.3	3 3758861.8	1 62.18930c	(12121708)	449422.20
3758861.81	60.46287c (	12121708)		
449426.0	7 3758861.8	1 58.82532c	(12121708)	449429.94
3758861.81	57.26601c (	12121708)		
449433.8	1 3758861.8	1 55.78101c	(12121708)	449437.68
3758861.81	54.36496c (	12121708)		
449441.5	5 3758861.8	1 53.02438c	(12121708)	449445.42
3758861.81	51.75211c (	12121708)		
449368.0	2 3758875.8	5 97.92947c	(12121708)	449371.89
3758875.85	93.88592c (	12121708)		
449375.7	6 3758875.8	5 90.16096c	(12121708)	449379.63
3758875.85	86.71874c (	12121708)		
449383.5	0 3758875.8	5 83.51784c	(12121708)	449387.37
3758875.85	80.53021c (	12121708)		
449391.2	4 3758875.8	5 77.74429c	(12121708)	449395.11
3758875.85	75.13407c (	12121708)		
449398.9	8 3758875.8	5 72.68852c	(12121708)	449402.85
3758875.85	70.38803c (	12121708)		
449406.7	2 3758875.8	5 68.22188c	(12121708)	449410.59
3758875.85	66.17791c (	12121708)		
449414.4	6 3758875.8	5 64.24608c	(12121708)	449418.33
3758875.85	62.41881c (	12121708)		
449422.2	0 3758875.8	5 60.68417c	(12121708)	449426.07
3758875.85	59.03661c (	12121708)		

449429.94	3758875.85	57.46957c	(12121708)	449433.81
3758875.85	55.97706c (1212170	8)		
449437.68	3758875.85	54.55558c	(12121708)	449441.55
3758875.85	53.20923c (1212170	8)		
449445.42	3758875.85	51.93281c	(12121708)	449368.02
3758889.89	98.14781c (1212170	8)		
449371.89	3758889.89	94.09799c	(12121708)	449375.76
3758889.89	90.36759c (1212170	8)		
449379.63	3758889.89	86.92533c	(12121708)	449383.50
3758889.89	83.72579c (1212170	8)		
449387.37	3758889.89	80.74065c	(12121708)	449391.24
3758889.89	77.95389c (1212170	8)		
449395.11	3758889.89	75.34272c	(12121708)	449398.98
3758889.89	72.89344c (1212170	8)		
449402.85	3758889.89	70.59104c	(12121708)	449406.72
3758889.89	68.42185c (1212170	8)		
449410.59	3758889.89	66.37426c	(12121708)	449414.46
3758889.89	64.43909c (1212170	8)		
449418.33	3758889.89	62.60636c	(12121708)	449422.20
3758889.89	60.87020c (1212170	8)		
449426.07	3758889.89	59.21927c	(12121708)	449429.94
3758889.89	57.64905c (1212170	8)		
449433.81	3758889.89	56.15337c	(12121708)	449437.68
3758889.89	54.72704c (1212170	8)		
449441.55	3758889.89	53.37882c	(12121708)	449445.42
3758889.89	52.09849c (1212170	8)		
449368.02	3758903.93	98.33005c	(12121708)	449371.89
3758903.93	94.27358c (1212170	8)		
449375.76	3758903.93	90.54305c	(12121708)	449379.63
3758903.93	87.09740c (1212170)	8)		
449383.50	3758903.93	83.90806c	(12121708)	449387.37
3758903.93	80.93401c (1212170)	8)		
449391.24	3758903.93	78.15595c	(12121708)	449395.11
3758903.93	75.55209c (1212170)	8)	(40404700)	
449398.98	3/58903.93	/3.10/91c	(12121/08)	449402.85
3/58903.93	/0.80/09c (12121/0	8)	(40404700)	
449406.72	3758903.93	68.63858c	(12121708)	449410.59
3/58903.93	66.58922C (12121/0	8)	(40404700)	440,440, 22
449414.46	3/58903.93	64.64/240	(12121708)	449418.33
3/58903.93	62.80//8C (12121/0	8)	(10101700)	440406 07
449422.20	3/58903.93	61.062290	(12121/08)	449426.07
3/58903.93	59.40381C (12121/0	8)	(10101700)	440422 81
449429.94	3/58903.93	57.825840	(12121708)	449433.81
3/58903.93	56.32240C (12121/0	8)	(10101700)	440441 55
449437.08	5/50505.75 E2 E21016 /1010170	24.00039C	(12121/08)	449441.55
2720202.25 AAOAAE 42	275002 02	0) ED 24040-	(10101700)	440369 03
449445.42	57,5000,55	52.24940C	(12121/08)	449368.02
۲۲.۱۲٤٥٢،۲ ۱۳۵۵ ۲۲CDNN	2752017 07	01 270660	(1)1)1700	11007E 76
4433/1.03 2750017 07	00 6/5/00 /1010170	94.3/900L	(12121/00)	449373.70
1.	JU.043496 (12121/0	0)		

449379.63 3758917.97 87.19968c (12121708) 449383.50 3758917.97 84.02815c (12121708) 449387.37 3758917.97 81.06609c (12121708) 449391.24 3758917.97 78.30525c (12121708) 449395.11 3758917.97 75.71361c (12121708) 449398.98 3758917.97 73.28390c (12121708) ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 HRA\CO\CO.ISC 11/11/21 \*\*\* \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* \*\*\* 12:18:15 PAGE 21 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\* \*\*\* THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\* INCLUDING SOURCE(S): L0000001 , L0000002 , L0000005 , L0000003 , L0000004 L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000015 L0000014 , L0000016 , L0000017 , L0000018 , L0000021 L0000019 . L0000020 , L0000024 , L0000025 , L0000026 L0000022 , L0000023 ر **\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS** \*\*\* \*\* CONC OF CO IN MICROGRAMS/M\*\*3 \*\* X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) - - - - - -\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ 449402.85 3758917.97 70.99222c (12121708) 449406.72 3758917.97 68.83423c (12121708) 3758917.97 66.78856c (12121708) 449410.59 449414.46 3758917.97 64.84766c (12121708) 449418.33 3758917.97 63.00370c (12121708) 449422.20 3758917.97 61.25071c (12121708) 449426.07 3758917.97 59.58332c (12121708) 449429.94 3758917.97 57.99360c (12121708) 449433.81 3758917.97 56.47945c (12121708) 449437.68 3758917.97 55.03425c (12121708) 449441.55 3758917.97 53.67171c (12121708) 449445.42 3758917.97 52.38428c (12121708) 449368.02 3758932.01 98.52517c (12121708) 449371.89 3758932.01 94.45806c (12121708) 449375.76 3758932.01 90.71764c (12121708) 449379.63

3758932.01	87.26598c (12121708)	1		
449383.50	3758932.01 8	84.09886c	(12121708)	449387.37
3758932.01	81.15701c (12121708)	1		
449391.24	3758932.01 7	'8.39931c	(12121708)	449395.11
3758932.01	75.82127c (12121708)	)		
449398.98	3758932.01 7	'3.39438c	(12121708)	449402.85
3758932.01	71.11548c (12121708)	1		
449406.72	3758932.01 6	8.96064c	(12121708)	449410.59
3758932.01	66.92699c (12121708)	1		
449414.46	3758932.01 6	64.99124c	(12121708)	449418.33
3758932.01	63.14853c (12121708)	1		
449422.20	3758932.01 6	51.39652c	(12121708)	449426.07
3758932.01	59.72815c (12121708)	1		
449429.94	3758932.01 5	8.13507c	(12121708)	449433.81
3758932.01	56.61509c (12121708)	1		
449437.68	3758932.01 5	5.16475c	(12121708)	449441.55
3758932.01	53.79553c (12121708)	1		
449445.42	3758932.01 5	2.50073c	(12121708)	449368.02
3758946.05	98.61582c (12121708)	1		
449371.89	3758946.05 9	94.54018c	(12121708)	449375.76
3758946.05	90.79317c (12121708)	1		
449379.63	3758946.05 8	87.33651c	(12121708)	449383.50
3758946.05	84.18648c (12121708)	1		
449387.37	3758946.05 8	81.23696c	(12121708)	449391.24
3758946.05	78.49044c (12121708)	1		
449395.11	3758946.05 7	′5.90871c	(12121708)	449398.98
3758946.05	73.48955c (12121708)	)		
449402.85	3758946.05 7	1.20736c/	(12121708)	449406.72
3758946.05	69.05796c (12121708)	)		
449410.59	3758946.05 6	57.02324c	(12121708)	449414.46
3758946.05	65.09318c (12121708)	)		
449418.33	3758946.05 6	53.25639c	(12121708)	449422.20
3758946.05	61.50531c (12121708)	)		
449426.07	3758946.05 5	9.83905c	(12121708)	449429.94
3758946.05	58.24786c (12121708)	)		
449433.81	3758946.05 5	6.72796c	(12121708)	449437.68
3758946.05	55.27595c (12121708)	)		
449441.55	3758946.05 5	53.90095c	(12121708)	449445.42
3758946.05	52.59684c (12121708)	1		
449368.02	3758960.09 9	08.69783c	(12121708)	449371.89
3758960.09	94.61703c (12121708)			
449375.76	3758960.09 9	0.86486c	(12121708)	449379.63
3758960.09	87.40354c (12121708)			
449383.50	3758960.09 8	84.25562c	(12121708)	449387.37
3758960.09	81.30594c (12121708)	1		
449391.24	3758960.09 7	78.56035c	(12121708)	449395.11
3758960.09	75.97819c (12121708)		(40404700)	
449398.98	3758960.09 7	3.56123c	(12121708)	449402.85
3758960.09	/1.27993c (12121708)		(	
449406.72	3758960.09 6	9.13339c	(12121708)	449410.59

3758960.09 67.10022c (12121708) 449414.46 3758960.09 65.17564c (12121708) 449418.33 3758960.09 63.34376c (12121708) 449422.20 3758960.09 61.59621c (12121708) 449426.07 3758960.09 59.93179c (12121708) 449429.94 3758960.09 58.34346c (12121708) 449433.81 3758960.09 56.82551c (12121708) 449437.68 3758960.09 55.37368c (12121708) 449441.55 3758960.09 53.99386c (12121708) 449445.42 3758960.09 52.67880c (12121708) 449368.02 3758974.13 98.87288c (12121708) 449371.89 3758974.13 94.77951c (12121708) 449375.76 3758974.13 91.01576c (12121708) 449379.63 3758974.13 87.54378c (12121708) 449383.50 3758974.13 84.37171c (12121708) ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 HRA\CO\CO.ISC \*\*\* 11/11/21 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* 12:18:15 \*\*\* PAGE 22 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\* \*\*\* THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\* INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,L0000015 ,L0000016 ,L0000017 ,L0000018 L0000014 . L0000019 , L0000020 , L0000021 L0000022 , L0000023 , L0000024 , L0000025 , L0000026 ر **\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS** \*\*\* \*\* CONC OF CO IN MICROGRAMS/M\*\*3 \*\* X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) - - - - -- - - - - -449387.37 3758974.13 81.40379c (12121708) 449391.24 3758974.13 78.63465c (12121708) 449395.11 3758974.13 76.05291c (12121708) 449398.98 3758974.13 73.62280c (12121708) 449402.85 3758974.13 71.34409c (12121708) 449406.72 3758974.13 69.19023c (12121708)

449410.59	3758974.13	67.15860c	(12121708)	449414.46
3758974.13	65.23972c (12121708	3)		
449418.33	3758974.13	63.41254c	(12121708)	449422.20
3758974.13	61.67139c (12121708	3)		
449426.07	3758974.13	60.00828c	(12121708)	449429.94
3758974.13	58.42194c (12121708	3)		
449433.81	3758974.13	56.90629c	(12121708)	449437.68
3758974.13	55.45641c (12121708	3)		
449441.55	3758974.13	54.07152c	(12121708)	449445.42
3758974.13	52.74933c (12121708	3)		
449368.02	3758988.17	99.03099c	(12121708)	449371.89
3758988.17	94.92113c (12121708	3)		
449375.76	3758988.17	91.14400c	(12121708)	449379.63
3758988.17	87.65898c (12121708	3)		
449383.50	3758988.17	84.46895c	(12121708)	449387.37
3758988.17	81.48748c (12121708	3)		
449391.24	3758988.17	78.70746c	(12121708)	449395.11
3758988.17	76.10696c (12121708	3)		
449398.98	3758988.17	73.67859c	(12121708)	449402.85
3758988.17	71.38811c (12121708	3)		
449406.72	3758988.17	69.23095c	(12121708)	449410.59
3758988.17	67.20467c (12121708	3)		
449414.46	3758988.17	65.28481c	(12121708)	449418.33
3758988.17	63.46275c (12121708	3)		
449422.20	3758988.17	61.72518c	(12121708)	449426.07
3758988.17	60.06546c (12121708	3)		
449429.94	3758988.17	58.48297c	(12121708)	449433.81
3758988.17	56.96942c (12121708	3)		
449437.68	3758988.17	55.52173c	(12121708)	449441.55
3758988.17	54.13511c (12121708	3)		
449445.42	3758988.17	52.80707c	(12121708)	449368.02
3759002.21	99.04692c (12121708	3)	· · · · · · · · · · · · · · · · · · ·	
449371.89	3759002.21	94.93289c	(12121708)	449375.76
3759002.21	91.15196c (12121708	3)	(	
449379.63	3759002.21	87.66559c	(12121708)	449383.50
3/59002.21	84.49264c (12121/08	3)	(40404700)	
449387.37	3/59002.21	81.51/95c	(12121/08)	449391.24
3/59002.21	/8./5630c (12121/08	3)	(40404700)	
449395.11	3/59002.21	76.159100	(12121708)	449398.98
3/59002.21	/3./23496 (12121/08	3)	(10101700)	110106 70
449402.85	3/59002.21	/1.440100	(12121708)	449406.72
3/59002.21	69.282136 (12121/08	3)	(40404700)	
449410.59	3/59002.21	67.250810	(12121708)	449414.46
3/59002.21	65.32450C (12121/08	S)	(10101700)	440400 00
449418.33	3/59002.21	03.49802C	(12121/08)	449422.20
3/59002.21	от./2020 24	5)	(10101700)	110120 01
449426.0/	5/39002.21	עסיייסיייסט. אי	(17171/08)	449429.94
2/2002.21	2750002 21	) F7 01177-	(10101700)	440427 69
449433.81	5/39002.21	2/.0TT/7C	(12121/08)	449437.68
3/39002.21	22.21/08/06 (12121/08	<i>)</i>		

449441.55 3759002.21 54.18704c (12121708) 449445.42 3759002.21 52.86002c (12121708) 3759016.25 99.05938c (12121708) 449371.89 449368.02 3759016.25 94.94406c (12121708) 91.16089c (12121708) 449379.63 449375.76 3759016.25 3759016.25 87.67203c (12121708) 449383.50 3759016.25 449387.37 84.64303 (14121224) 81.54864c (12121708) 3759016.25 449391.24 3759016.25 78.78004c (12121708) 449395.11 76.19899c (12121708) 3759016.25 449398.98 3759016.25 73.76355c (12121708) 449402.85 3759016.25 71.47366c (12121708) 449406.72 3759016.25 69.32038c (12121708) 449410.59 3759016.25 67.27954c (12121708) 449414.46 3759016.25 65.35152c (12121708) 449418.33 63.51843c (12121708) 3759016.25 449422.20 3759016.25 61.77992c (12121708) 449426.07 60.12186c (12121708) 3759016.25 449429.94 3759016.25 58.54558c (12121708) 449433.81 57.03914c (12121708) 3759016.25 449437.68 3759016.25 55.60373c (12121708) 449441.55 3759016.25 54.22492c (12121708) 449445.42 3759016.25 52.89796c (12121708) 449368.02 99.32046c (12121708) 3759030.29 ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 HRA\CO\CO.ISC \*\*\* 11/11/21 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* \*\*\* 12:18:15 PAGE 23 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ U\* \*\*\* THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\* INCLUDING SOURCE(S): L0000001 , L0000002 , L0000005 , L0000003 , L0000004 , L0000007 , L0000009 , L0000010 L0000006 L0000008 L0000011 , L0000012 , L0000013 L0000014 , L0000016 , L0000015 , L0000017 , L0000018 L0000019 , L0000020 , L0000021 , L0000024 L0000022 , L0000023 , L0000025 , L0000026 ر **\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS** \*\* CONC OF CO IN MICROGRAMS/M\*\*3 \*\*

X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M)

Y-COORD (M) CONC (YYMMDDHH)

	449371.89	3759030.29	95.17799c	(12121708)	449375.76
	3759030.29	91.37208c (12121	708)	(42424700)	440202 50
	4493/9.63	3/59030.29	8/.863420	(12121/08)	449383.50
	3/59030.29	84.66891C (12121	/08)	(12121700)	440201 24
	449387.37	3/59030.29	81.680660	(12121708)	449391.24
	3/59030.29	/8.8980/C (12121	/08) 76 20570a	(10101700)	440308 08
	449395.11	3/59030.29	70,285/00	(12121708)	449398.98
	3/39030.29	75.859500 (12121	71 522074	(10101700)	440406 72
	449402.00	5/59050.29 60 26040c (12121)	71.552070	(12121708)	449406.72
	3739030.29 AA0410 E0	2750020 20	(00) 67 20127c	(12121700)	440414 46
	2750020 20	5/59050.29 65 26274c (12121)	7001	(12121700)	449414.40
	1/0/10 22	3750030 20	63 520830	(10101708)	119122 20
	2750020 20	61 77133c (10101)	708)	(12121/00)	449422.20
	1/19/26 07	3759030 29	60 11216c	(12121708)	119129 91
	3759030 29	58 53194c (12121)	708)	(12121/00)	++J+2J:J+
	449433 81	3759030 29	57 02693c	(12121708)	449437 68
	3759030,29	55,59019c (12121)	708)	(12121/00)	19197100
	449441.55	3759030.29	54,21045c	(12121708)	449445,42
	3759030.29	52.88044c (12121)	708)	(11111,00)	
	449368.02	3759044.33	99.53746c	(12121708)	449371.89
	3759044.33	95.37184c (12121)	708)		
	449375.76	3759044.33	, 91.54627c	(12121708)	449379.63
	3759044.33	88.02143c (12121	708)	· · · ·	
	449383.50	3759044.33	84.79259c	(12121708)	449387.37
	3759044.33	81.77922c (12121)	708)		
	449391.24	3759044.33	78.97244c	(12121708)	449395.11
	3759044.33	76.33992c (12121	708)		
	449398.98	3759044.33	73.87255c	(12121708)	449402.85
	3759044.33	71.54737c (12121)	708)		
	449406.72	3759044.33	69.35728c	(12121708)	449410.59
	3759044.33	67.28762c (12121)	708)	(	
	449414.46	3759044.33	65.33664c	(12121708)	449418.33
	3/59044.33	63.49219c (12121	/08)	(42424700)	110106 07
	449422.20	3/59044.33	61./42150	(12121708)	449426.07
	3/59044.33	00.08000C (12121	/08)	(10101700)	440422 01
	449429.94	5/59044.55	7001900	(12121708)	449455.81
	3/39044.33	2750044 22	/00) EE E6210c	(12121700)	440441 55
	2750011 22	5739044.55 57 18217c (10101)	708)	(12121700)	449441.33
	<i>1/19//15 /1</i>	3759011 33	52 85028c	(12121708)	
		5755044.55	52:050200	(12121/00)	
,	★ *** AERMOD - VE	RSION 19191 ***	*** C:\LAK	ES\AERMOD VIE	W\14172 HRA\CO\CO.ISC
		***	11/11/21		
	*** AERMET - VERS	SION 16216 ***	***		
		***	12:18:15		

PAGE 24

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST 1-HR RESULTS \*\*\*

\*\* CONC OF CO IN MICROGRAMS/M\*\*3

\*\*

DATE NETWORK GROUP ID AVERAGE CONC (YYMMDDHH) RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID . . . . . . . . . . . . . ALL HIGH 1ST HIGH VALUE IS 121.36092 ON 13020301: AT ( 449368.02, 3759016.25, 199.00, 199.00, 0.00) DC \*\*\* RECEPTOR TYPES: GC = GRIDCART GP = GRIDPOLRDC = DISCCART DP = DISCPOLR★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 HRA\CO\CO.ISC 11/11/21 \*\*\* \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* \*\*\* 12:18:15 PAGE 25 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\* \*\*\* THE SUMMARY OF HIGHEST 8-HR RESULTS \*\*\* \*\* CONC OF CO IN MICROGRAMS/M\*\*3 \*\* DATE NETWORK GROUP ID AVERAGE CONC (YYMMDDHH) RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID . . . . . . . . . . . . . . . . . . . - - - - - - - - - - - - -ALL HIGH 1ST HIGH VALUE IS 99.53746c ON 12121708: AT ( 449368.02, 3759044.33, 198.07, 198.07, 0.00) DC

\*\*\* RECEPTOR TYPES: GC = GRIDCART GP = GRIDPOLRDC = DISCCART DP = DISCPOLR ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 HRA\CO\CO.ISC \*\*\* 11/11/21 \*\*\* \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* 12:18:15 PAGE 26 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\* \*\*\* Message Summary : AERMOD Model Execution \*\*\* ----- Summary of Total Messages ------A Total of 0 Fatal Error Message(s) A Total of 2 Warning Message(s) 1638 Informational Message(s) A Total of A Total of 43848 Hours Were Processed A Total of 1039 Calm Hours Identified 599 Missing Hours Identified ( 1.37 Percent) A Total of \*\*\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*\*\* \*\*\* NONE \*\*\* \*\*\*\*\*\*\* \*\*\*\*\*\*\* WARNING MESSAGES ME W186 130 MEOPEN: THRESH 1MIN 1-min ASOS wind speed threshold used 0.50 ME W187 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET 130 \*\*\* AERMOD Finishes Successfully \*\*\* \*\* Lakes Environmental AERMOD MPI \*\* \*\* \*\* AERMOD INPUT PRODUCED BY: \*\* AERMOD VIEW VER. 10.0.1 \*\* LAKES ENVIRONMENTAL SOFTWARE INC. \*\* DATE: 11/11/2021

```
** FILE: C:\LAKES\AERMOD VIEW\14172 HRA\DPM\DPM.ADI
**
**
**
** AERMOD CONTROL PATHWAY
**
**
CO STARTING
  TITLEONE C:\LAKES\AERMOD VIEW\14172 HRA\DPM\DPM.ISC
  MODELOPT DFAULT CONC
  AVERTIME ANNUAL
  URBANOPT 2189641
  POLLUTID DPM
  RUNORNOT RUN
  ERRORFIL DPM.ERR
CO FINISHED
**
******
** AERMOD SOURCE PATHWAY
**
**
SO STARTING
** SOURCE LOCATION **
** SOURCE ID - TYPE - X COORD. - Y COORD. **
** _____
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE1
** DESCRSRC I-15 FREEWAY
** PREFIX
** LENGTH OF SIDE = 46.00
** CONFIGURATION = ADJACENT
** EMISSION RATE = 0.00184
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 2
** 449288.372, 3758373.924, 188.51, 3.49, 21.40
** 449298.585, 3759554.578, 201.92, 3.49, 21.40
** _____
                               _ _ _ _ _ _ _ .
  LOCATION L0000131
                    VOLUME
                           449288.571 3758396.923 189.03
  LOCATION L0000132
                   VOLUME
                            449288.969 3758442.921 189.02
                            449289.367 3758488.920 189.85
  LOCATION L0000133
                    VOLUME
  LOCATION L0000134
                            449289.765 3758534.918 191.94
                   VOLUME
  LOCATION L0000135
                            449290.163 3758580.916 193.48
                   VOLUME
  LOCATION L0000136
                   VOLUME
                            449290.561 3758626.914 194.96
                   VOLUME 449290.958 3758672.913 195.00
  LOCATION L0000137
  LOCATION L0000138
                   VOLUME
                            449291.356 3758718.911 195.99
```

	LOCATION	L0000139	VOLUME	449291.	754	3758764	.909	195.92	
	LOCATION	L0000140	VOLUME	449292.	152	3758810	.908	194.99	
	LOCATION	L0000141	VOLUME	449292.	550	3758856	.906	195.58	
	LOCATION	L0000142	VOLUME	449292.	948	3758902	.904	197.22	
	LOCATION	L0000143	VOLUME	449293.	346	3758948	.902	198.00	
		10000144		449293.	744	3758994	.901	198.00	
		10000145		449294	142	3759040	899	198.00	
		1 0000146		119291	540	3759086	897	197 29	
		1 0000140		449294. AA929A	940	3759132	895	197.25	
		10000147		1/0205	225	3750178	201	198 /2	
		10000140		449299.	222	3750227	207	100.42	
				449295.	101	2750224	000	199.00	
		L0000150		449290.	T 2 T	2750210	000	200.09	
	LUCATION	L0000151	VOLUME	449296.	529	3/59310	.889	201.76	
	LUCATION	L0000152	VOLUME	449296.	927	3/59362	.88/	201.20	
	LOCATION	L0000153	VOLUME	449297.	325	3759408	.885	201.00	
	LOCATION	L0000154	VOLUME	449297.	/23	3/59454	.883	201.00	
	LOCATION	L0000155	VOLUME	449298.	121	3759500	.882	201.00	
	LOCATION	L0000156	VOLUME	449298.	519	3759546	.880	201.69	
**	END OF LI	INE VOLUME S	OURCE ID =	SLINE1					
**	SOURCE PA	ARAMETERS **							
**	LINE VOLU	JME SOURCE I	D = SLINE1						
	SRCPARAM	L0000131	0.0000707	7692	3.	.49	21.40	3.25	
	SRCPARAM	L0000132	0.0000707	7692	3.	.49	21.40	3.25	
	SRCPARAM	L0000133	0.0000707	7692	3.	.49	21.40	3.25	
	SRCPARAM	L0000134	0.0000707	7692	3.	.49	21.40	3.25	
	SRCPARAM	L0000135	0.0000707	7692	3.	49	21.40	3.25	
	SRCPARAM	L0000136	0.0000707	7692	3.	49	21.40	3.25	
	SRCPARAM	L0000137	0.0000707	7692	3.	49	21.40	3.25	
	SRCPARAM	L0000138	0.0000707	7692	3.	49	21.40	3.25	
	SRCPARAM	L0000139	0.0000707	7692	3.	49	21.40	3.25	
	SRCPARAM	L0000140	0.0000707	7692	3.	49	21.40	3.25	
	SRCPARAM	L0000141	0.0000707	7692	3.	49	21.40	3.25	
	SRCPARAM	10000142	0.0000707	7692	3.	49	21.40	3.25	
	SRCPARAM	10000143	0.0000707	7692	3	49	21.40	3.25	
	SRCPARAM	1 0000144	0.0000707	7692	3	49	21.40	3.25	
	SRCPARAM	1 0000145	0 0000707	7692	3	49	21 40	3 25	
		10000145	0.0000707	7692	יר ז	/Q	21.40 21 //	3 2 2 5	
	SPCDADAM	10000140	0.0000707	7607	). 2	10	21.40 21 //	) J.2J	
	SPCDADAM	10000147	0.0000707	7607	). 2	10	21.40 21 //	) J.2J	
	SECHARAM	L0000140	0.0000707	7602	э. э	49	21.40 21 10	2 2.25 2 2 2E	
	SRCPARAM	10000149	0.0000707	7092	з. г	49	21.40 21.40		
	SKUPAKAM	L0000120	0.0000/0/	2092	<u>ح</u>	49	21.4k	3.25	
	SKCPARAM	L0000151	0.0000/0/	(692 7602	3.	49	21.46	3.25	
	SKCPARAM	L0000152	0.0000/07	692	3.	49	21.46	3.25	
	SRCPARAM	L0000153	0.0000707	/692	3.	.49	21.40	3.25	
	SRCPARAM	L0000154	0.0000707	/692	3.	.49	21.40	3.25	
	SRCPARAM	L0000155	0.0000707	7692	3.	.49	21.40	3.25	
	SRCPARAM	L0000156	0.0000707	7692	3.	.49	21.40	3.25	
**									

URBANSRC ALL

SRCGROUP ALL

```
SO FINISHED
**
** AERMOD RECEPTOR PATHWAY
**
**
RE STARTING
  INCLUDED DPM.ROU
RE FINISHED
**
** AERMOD METEOROLOGY PATHWAY
**
**
ME STARTING
  SURFFILE ..\KRAL_V9_ADJU\KRAL_V9.SFC
  PROFFILE ..\KRAL V9 ADJU\KRAL V9.PFL
  SURFDATA 3171 2012
  UAIRDATA 3190 2012
  PROFBASE 245.0 METERS
ME FINISHED
**
** AERMOD OUTPUT PATHWAY
**
**
OU STARTING
** AUTO-GENERATED PLOTFILES
          ANNUAL ALL DPM.AD\AN00GALL.PLT 31
  PLOTFILE
  SUMMFILE DPM.SUM
OU FINISHED
 *** Message Summary For AERMOD Model Setup ***
 ----- Summary of Total Messages ------
A Total of
                 0 Fatal Error Message(s)
A Total of
                 2 Warning Message(s)
A Total of
                 0 Informational Message(s)
   ******* FATAL ERROR MESSAGES *******
           *** NONE ***
```

WARNING MESSAGES

\*\*\*\*\*\*

\*\*\*\*\*\*\*

MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used ME W186 130 0.50 ME W187 130 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET \*\*\*\*\*\* \*\*\* SETUP Finishes Successfully \*\*\* ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 HRA\DPM\DPM.ISC \*\*\* 11/11/21 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* \*\*\* 10:36:53 PAGE 1 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ U\* \*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\* \*\*Model Is Setup For Calculation of Average CONCentration Values. -- DEPOSITION LOGIC --\*\*NO GAS DEPOSITION Data Provided. \*\*NO PARTICLE DEPOSITION Data Provided. \*\*Model Uses NO DRY DEPLETION. DRYDPLT = F \*\*Model Uses NO WET DEPLETION. WETDPLT = F \*\*Model Uses URBAN Dispersion Algorithm for the SBL for 26 Source(s), for Total of 1 Urban Area(s): Urban Population = 2189641.0 ; Urban Roughness Length = 1.000 m \*\*Model Uses Regulatory DEFAULT Options: 1. Stack-tip Downwash. 2. Model Accounts for ELEVated Terrain Effects. 3. Use Calms Processing Routine. 4. Use Missing Data Processing Routine. 5. No Exponential Decay. 6. Urban Roughness Length of 1.0 Meter Assumed. \*\*Other Options Specified: ADJ U\* - Use ADJ U\* option for SBL in AERMET CCVR Sub - Meteorological data includes CCVR substitutions TEMP Sub - Meteorological data includes TEMP substitutions \*\*Model Assumes No FLAGPOLE Receptor Heights. \*\*The User Specified a Pollutant Type of: DPM

\*\*Model Calculates ANNUAL Averages Only \*\*This Run Includes: 26 Source(s); 1 Source Group(s); and 441 Receptor(s) with: 0 POINT(s), including 0 POINTCAP(s) and Ø POINTHOR(s) 26 VOLUME source(s) and: and: 0 AREA type source(s) and: 0 LINE source(s) 0 RLINE/RLINEXT source(s) and: and: 0 OPENPIT source(s) 0 BUOYANT LINE source(s) with 0 line(s) and: \*\*Model Set To Continue RUNning After the Setup Testing. \*\*The AERMET Input Meteorological Data Version Date: 16216 \*\*Output Options Selected: Model Outputs Tables of ANNUAL Averages by Receptor Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword) Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword) \*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours m for Missing Hours b for Both Calm and Missing Hours \*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 245.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0 Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+07 Output Units = MICROGRAMS/M\*\*3 \*\*Approximate Storage Requirements of Model = 3.6 MB of RAM. \*\*Input Runstream File: aermod.inp \*\*Output Print File: aermod.out \*\*Detailed Error/Message File: DPM.ERR \*\*File for Summary of Results: DPM.SUM

★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 HRA\DPM\DPM.ISC \*\*\* 11/11/21 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* \*\*\* 10:36:53 PAGE 2 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ U\* \*\*\* VOLUME SOURCE DATA \*\*\* NUMBER EMISSION RATE BASE RELEASE INIT. INIT. URBAN EMISSION RATE PART. (GRAMS/SEC) X Y ELEV. SOURCE HEIGHT SY SOURCE SCALAR VARY SZ (METERS) (METERS) (METERS) (METERS) (METERS) CATS. ID (METERS) BY \_ \_ \_ \_ \_ . L0000131 0 0.70769E-04 449288.6 3758396.9 189.0 3.49 21.40 3.25 YES 0 0.70769E-04 449289.0 3758442.9 189.0 L0000132 3.49 21.40 3.25 YES 0 0.70769E-04 449289.4 3758488.9 189.9 3.49 21.40 L0000133 YES 3.25 L0000134 0 0.70769E-04 449289.8 3758534.9 191.9 3.49 21.40 3.25 YES L0000135 0 0.70769E-04 449290.2 3758580.9 193.5 3.49 21.40 3.25 YES 0.70769E-04 449290.6 3758626.9 L0000136 0 195.0 3.49 21.40 YES 3.25 0.70769E-04 449291.0 3758672.9 195.0 3.49 21.40 L0000137 0 3.25 YES L0000138 0 0.70769E-04 449291.4 3758718.9 196.0 3.49 21.40 3.25 YES L0000139 0.70769E-04 449291.8 3758764.9 195.9 3.49 21.40 0 3.25 YES L0000140 0.70769E-04 449292.2 3758810.9 195.0 3.49 21.40 0 3.25 YES L0000141 0 0.70769E-04 449292.5 3758856.9 195.6 3.49 21.40 3.25 YES L0000142 0 0.70769E-04 449292.9 3758902.9 197.2 3.49 21.40 3.25 YES L0000143 0.70769E-04 449293.3 3758948.9 21.40 0 198.0 3.49 3.25 YES 0.70769E-04 449293.7 3758994.9 3.49 21.40 L0000144 0 198.0 3.25 YES 198.0 L0000145 0 0.70769E-04 449294.1 3759040.9 3.49 21.40 3.25 YES

L0000146	0	0.70769E-04	449294.	5 3759086.9	197.3	3.49	21.40			
3.25 YES										
L0000147	0	0.70769E-04	449294.9	9 3759132.9	198.0	3.49	21.40			
3.25 YES										
L0000148	0	0.70769E-04	449295.3	3759178.9	198.4	3.49	21.40			
3.25 YES										
L0000149	0	0.70769E-04	449295.	7 3759224.9	199.0	3.49	21.40			
3.25 YES	-									
L0000150	0	0.70769E-04	449296.3	1 3759270.9	200.9	3.49	21.40			
3.25 YES	•	0 707605 04	440006		204 0	2 40	24 40			
L0000151	0	0./0/69E-04	449296.	5 3759316.9	201.8	3.49	21.40			
3.25 YES	~	0 707605 04	440206		201 2	2 40	21 40			
L0000152	0	0./0/69E-04	449296.	9 3759362.9	201.2	3.49	21.40			
5.25 YES	0	0 70760E 01	110207	2750109 0	201 0	2 10	21 40			
7 22 VEC	0	0.707092-04	449297.	5 5755400.5	201.0	5.49	21.40			
1000015/	a	0 70769E-01	119297 -	7 3759/5/ 9	201 0	3 19	21 10			
2 25 VFS	0	0.707052-04	++JZJ/.	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	201.0	5.45	21.40			
10000155	Ø	0.70769F-04	449298	1 3759500.9	201.0	3.49	21.40			
3.25 YES	Ŭ	0.707032 01	1152501.	2 37 33 300 . 3	201.0	5.15	21.10			
L0000156	0	0.70769E-04	449298.	5 3759546.9	201.7	3.49	21.40			
3.25 YES	-									
★ *** AERMOD - VE	RSIC	N 19191 ***	*** C:	\LAKES\AERMOD	) VIEW\1417	'2 HRA∖DF	PM\DPM.ISC			
		***	11/11/21 ***							
*** AERMET - VER	SION	16216 ***								
		***	10:36:53	3						
			PAGE 3							
*** MODELOPTs:	Re	gDFAULT CONC	ELEV l	JRBAN ADJ_U*						
				*** SOURCE I	Ds DEFININ	G SOURCE	GROUPS			
***										
					COURCE	TD -				
SKCGKUUP ID				SOUKCE IDS						

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\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_

, L0000133 , L0000134 ALL L0000131 , L0000132 , L0000135 ر , L0000138 , L0000137 L0000136 ر , L0000142 L0000139 , L0000140 , L0000141 , L0000143 ر , L0000146 L0000144 , L0000145 ر L0000147 , L0000148 , L0000149 , L0000150 , L0000151 ر , L0000154 L0000152 , L0000153 ر L0000155 , L0000156 \*\*\* C:\LAKES\AERMOD VIEW\14172 HRA\DPM\DPM.ISC ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* 11/11/21
*** AERMET - VERSION 16216 ***	***
***	10:36:53
*** MODELOPTs: RegDFAULT CONC	PAGE 4 ELEV URBAN ADJ_U*
***	*** SOURCE IDs DEFINED AS URBAN SOURCES
URBAN ID URBAN POP	SOURCE IDs
2189641. L0000131 L0000135 , L0000136 , L00001 L0000138 ,	,L0000132 ,L0000133 ,L0000134 , 37 ,
L0000139 , L000014	0 ,L0000141 ,L0000142 ,L0000143 ,
L0000144 , L0000145 , L00001	46 ,
L0000147 , L000014	8 , L0000149 , L0000150 , L0000151 ,
L0000152 , L0000153 , L00001	54 ,
L0000155 , L000015 ▲ *** AERMOD - VERSION 19191 *** *** *** AERMET - VERSION 16216 *** ***	<pre>6 ,  *** C:\LAKES\AERMOD VIEW\14172 HRA\DPM\DPM.ISC     11/11/21  *** 10:36:53</pre>
*** MODELOPTs: RegDFAULT CONC	PAGE 5 ELEV URBAN ADJ_U*
	<pre>*** DISCRETE CARTESIAN RECEPTORS *** (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG) (METERS)</pre>
(449368.0, 3758763.5, 19	2.6, 195.0, 0.0); (449371.9,
3758763.5. 192.2. 195.0.	0.0):
(449375.8, 3758763.5, 19	1.8, 195.0, 0.0); (449379.6,
3758763.5, 191.4, 195.0.	0.0):
(449383.5, 3758763.5, 19	1.2, 195.0, 0.0); (449387.4,
3758763.5, 190.9, 195.0,	0.0):
(449391.2, 3758763.5, 19	0.6, 190.6, 0.0); (449395.1,
3758763.5, 190.4, 190.4,	0.0):
(449399.0, 3758763.5, 19	0.1, 190.1, 0.0); (449402.8,
3758763.5, 189.9, 189.9	0.0);
(449406.7, 3758763.5, 18	9.6, 189.6, 0.0); (449410.6,
3758763.5, 189.4. 189.4.	0.0);
(449414.5, 3758763.5, 18	9.3, 189.3, 0.0); (449418.3,

3758763.5,	189.1,	189.1,	0.0);		
( 449422	.2, 3758763.	5, 189.0,	189.0,	0.0);	( 449426.1,
3758763.5,	188.9,	188.9,	0.0);		
( 449429	.9, 3758763.	5, 188.7,	188.7,	0.0);	(449433.8,
3758763.5,	188.6,	188.6,	0.0);		
( 449437	.7, 3758763.	5, 188.5,	188.5,	0.0);	( 449441.5,
3758763.5,	188.4,	188.4,	0.0);		
( 449445	.4, 3758763.	5, 188.3,	188.3,	0.0);	( 449368.0,
3758777.6,	192.5,	195.0,	0.0);	·	
( 449371	.9, 3758777.	6, 192.0,	195.0,	0.0);	(449375.8,
3758777.6,	191.5,	195.0,	0.0);		•
( 449379	.6, 3758777.	6, 191.0,	195.0,	0.0);	(449383.5,
3758777.6,	190.8,	195.0,	0.0);	, -	
( 449387	.4, 3758777.	6, 190.5,	195.0,	0.0);	( 449391.2,
3758777.6,	190.3,	195.0,	0.0);	,,,	
( 449395	.1, 3758777.	6, 190.0,	195.0,	0.0);	( 449399.0,
3758777.6,	189.7,	195.0,	0.0);	,,,	
( 449402	.8, 3758777.	6, 189.5,	195.0,	0.0);	( 449406.7,
3758777.6.	189.2.	195.0.	0.0);		(
( 449410	.6. 3758777.	6. 189.0.	189.0.	0.0);	( 449414.5,
3758777.6.	188.9.	188.9.	0.0);		
( 449418	.3. 3758777.	6. 188.8.	188.8.	0.0);	( 449422.2.
3758777.6.	188.6.	188.6.	0.0);		(
( 449426	.1. 3758777.	6. 188.5.	188.5.	0.0);	( 449429.9.
3758777.6.	188.4.	188.4.	0.0):		(
( 449433	.8. 3758777.	6. <u>188.</u> 2.	188.2.	0.0):	( 449437.7.
3758777.6.	188.1.	188.1.	0.0):	0.075	( 115 157 17)
( 449441	.5. 3758777.	6. <u>188.0</u> .	188.0.	0.0):	( 449445.4.
3758777.6.	188.0.	188.0.	0.0):	0.075	(
( 449368	.0. 3758791.	192.6.	192.6.	0.0):	( 449371.9.
3758791.6.	192.3.	195.0.	0.0):	0.075	( 1100/210)
( 449375	.8. 3758791.	6. <u>191.9</u> .	195.0.	0.0):	( 449379.6.
3758791.6.	191.5.	195.0.	0.0):	0.075	( 11557510)
( 449383	5. 3758791	6. <u>191.2</u> .	195.0.	0.0):	( 449387 4
3758791 6	191 0	191 0	9 9)·	0.0);	( ++5507.+5
( 449391	2. 3758791	6. <u>190.7</u> .	190.7.	0.0):	( 449395, 1,
3758791 6	190 5	190 5	<u> </u>	0.075	( 115555.1)
( 449399	a 3758791	190.5, 6 190.2	190 2	9 9)·	( 449402 8
3758791 6	190 0	190 0	9 9)·	0.0);	( 440402.0)
( 449406	7 3758791	189 7	189 7	9 9)·	( 449410 6
3758791 6	189 5	189 5	9 9)·	0.0),	( ++)+10.0,
( //9/1/	5 3758701	189.5, 6 189.3	189 3	0 0).	( 119118 3
3758701 6	120 2	120 7	109.5, 0 0)·	0.0),	( 449410.3,
( //0/22	2758701	102.2, c 102.1	120 1	0 0).	( 110126 1
3758701 6	189 0	189 0	0 0)·	0.0),	( 449420.1,
/ /////20	109.0	109.0, c 100 0	100 0	0 0) •	( 110122 0
( 449429 3758701 <i>c</i>	. ۲۲/۱۵۵۱ و. ۱۹۵ ۲	0, 100.0, 199.7	100.0,	0.0),	( 449400.0,
,0,10,0,10, , 70,00,0 )	100./, 7 2750701	100./, 6 100 <i>c</i>	122 6	0 0).	( //Q//1 E
ر 44242/ ۲58701 ۲	. <i>ادرەرر</i> ،. 188 5	رەن 100 يۈل 188 5	100.0, 0 0)·	0.0/5	( 449441.),
, 0, 10/ 0/ 0/ 0/ 0/ 0/ 0/ 0/ 0/ 0/ 0/ 0/ 0/ 0	100.J,	100.J,	ر ( U . U ) , 100 /	0 0).	( 110260 0
( 449445	.4, 2/20/91.	, 100.4	, ۲۰۵۰4	0.0);	( 449300.0,

3758805.6, 192.	8, 192.8,	e	9.0);		
( 449371.9, 37	758805.6,	192.5,	192.5,	0.0);	( 449375.8,
3758805.6, 192.	2, 192.2,	e	ð.0);		
( 449379.6, 37	758805.6,	192.0,	192.0,	0.0);	( 449383.5,
3758805.6, 191.	7, 191.7,	6	ð.0);		
( 449387.4, 37	758805.6,	191.5,	191.5,	0.0);	( 449391.2,
3758805.6, 191.	2, 191.2,	e	9.0);		
( 449395.1, 37	758805.6,	190.9,	190.9,	0.0);	( 449399.0,
3758805.6, 190.	7, 190.7,	6	9.0);		
( 449402.8, 37	758805.6,	190.4,	190.4,	0.0);	( 449406.7,
3758805.6, 190.	2, 190.2,	6	9.0);		
( 449410.6, 37	758805.6,	189.9,	189.9,	0.0);	( 449414.5,
3758805.6, 189.	8, 189.8,	6	9.0);		
( 449418.3, 37	758805.6,	189.7,	189.7,	0.0);	( 449422.2,
3758805.6, 189.	6, 189.6,	e	9.0);	_	
( 449426.1, 37	758805.6,	189.4,	189.4,	0.0);	( 449429.9,
3758805.6, 189.	3, 189.3,	6	9.0);		
( 449433.8, 37	758805.6,	189.2,	189.2,	0.0);	( 449437.7,
3758805.6, 189.	0, 189.0,	6	9.0);		
( 449441.5, 37	758805.6,	188.9,	188.9,	0.0);	( 449445.4,
3758805.6, 188.	8, 188.8,	e	ð.0);		
( 449368.0, 37	'58819 <b>.</b> 7,	192.8,	192.8,	0.0);	( 449371.9,
3758819.7, 192.	5, 192.5,	e	ð.0);		
( 449375.8, 37	'58819 <b>.</b> 7,	192.2,	192.2,	0.0);	( 449379.6,
3758819.7, 192.	0, 192.0,	e	ð.0);		
( 449383.5, 37	′58819.7 <b>,</b>	191.7,	191.7,	0.0);	( 449387.4,
3758819.7, 191.	5, 191.5,	e	ð.0);		
★ *** AERMOD - VERS	SION 19191 **	** ***	C:\LAKES\A	ERMOD VIEW\14172	HRA\DPM\DPM.ISC
	***	11/	/11/21		
*** AERMET - VERSI	ON 16216 ***	* ***			
	***	10:36	5:53		

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

.2, 3758819.	7, 191.2,	191.2,	0.0);	( 449395.1,
191.0,	191.0,	0.0);		
.0, 3758819.	7, 190.7,	190.7,	0.0);	( 449402.8,
190.4,	190.4,	0.0);		
.7, 3758819.	7, 190.2,	190.2,	0.0);	( 449410.6,
190.0,	190.0,	0.0);		
.5, 3758819.	7, 189.8,	189.8,	0.0);	( 449418.3,
189.7,	189.7,	0.0);		
.2, 3758819.	7, 189.6,	189.6,	0.0);	( 449426.1,
189.5,	189.5,	0.0);		
.9, 3758819.	7, 189.3,	189.3,	0.0);	( 449433.8,
	.2, 3758819. 191.0, .0, 3758819. 190.4, .7, 3758819. 190.0, .5, 3758819. 189.7, .2, 3758819. 189.5, .9, 3758819.	.2, 3758819.7, 191.2, 191.0, 191.0, .0, 3758819.7, 190.7, 190.4, 190.4, .7, 3758819.7, 190.2, 190.0, 190.0, .5, 3758819.7, 189.8, 189.7, 189.7, .2, 3758819.7, 189.6, 189.5, 189.5, .9, 3758819.7, 189.3,	.2, 3758819.7,       191.2,       191.2,         191.0,       191.0,       0.0);         .0, 3758819.7,       190.7,       190.7,         190.4,       190.4,       0.0);         .7, 3758819.7,       190.2,       190.2,         190.0,       190.0,       0.0);         .5, 3758819.7,       189.8,       189.8,         189.7,       189.7,       0.0);         .2, 3758819.7,       189.6,       189.6,         189.5,       189.5,       0.0);         .9, 3758819.7,       189.3,       189.3,	.2, 3758819.7,       191.2,       191.2,       0.0);         191.0,       191.0,       0.0);       0.0);         .0, 3758819.7,       190.7,       190.7,       0.0);         190.4,       190.4,       0.0);       0.0);         .7, 3758819.7,       190.2,       190.2,       0.0);         190.0,       190.0,       0.0);       0.0);         .5, 3758819.7,       189.8,       189.8,       0.0);         .89.7,       189.8,       189.8,       0.0);         .89.7,       189.6,       189.6,       0.0);         .9, 3758819.7,       189.3,       0.0);

3758819.7,	189.2,	189.2,	0.0);		
( 449437	.7, 3758819.3	7, 189.1,	189.1,	0.0);	( 449441.5,
3758819.7,	188.9,	188.9,	0.0);		
( 449445	.4, 3758819.3	7, 188.8,	188.8,	0.0);	( 449368.0,
3758833.7,	192.8,	192.8,	0.0);		
( 449371	.9, 3758833.3	7, 192.5,	192.5,	0.0);	(449375.8,
3758833.7,	192.2,	192.2,	0.0);		
( 449379	.6, 3758833.3	7, 192.0,	192.0,	0.0);	(449383.5,
3758833.7,	191.7,	191.7,	0.0);		-
( 449387	.4, 3758833.	7, 191.5,	191.5,	0.0);	( 449391.2,
3758833.7,	191.2,	191.2,	0.0);		•
( 449395	.1, 3758833.3	7, 191.0,	191.0,	0.0);	( 449399.0,
3758833.7,	190.7,	190.7,	0.0);	,,,	· · · ·
( 449402	.8, 3758833.3	7, 190.4,	190.4,	0.0);	( 449406.7,
3758833.7,	190.2,	190.2,	0.0);	,,,	· · · ·
( 449410	.6, 3758833.3	7, 190.0,	190.0,	0.0);	( 449414.5,
3758833.7.	189.8.	189.8.	0.0);	,,,	· · · ·
( 449418	.3. 3758833.3	7. 189.7.	189.7.	0.0):	( 449422.2.
3758833.7.	189.6.	189.6.	0.0):	,	(
( 449426	.1. 3758833.	7. 189.5.	189.5.	0.0):	( 449429.9.
3758833.7.	189.3.	189.3.	0.0):	,	(
( 449433	8. 3758833.	7. 189.2.	189.2.	0.0):	( 449437.7.
3758833.7.	189.1.	189.1.	0.0):	0.075	( 110 107 177)
( 449441	5. 3758833.	7. 188.9.	188.9.	0.0):	( 449445 4
3758833 7	188 8	188 8	0 0)·	0.075	( 11511511)
( 449368	0 3758847	193 <i>A</i>	193 /	0 0)·	( 119371 9
37588/17 8	193 2	193 2	0 0).	0.0),	( ++))/1.),
( //9375	8 37588/17 9	103.2, R 103.0	193 0	0 0).	( 119379 6
27500/7 0	107 0	102 0	195.0,	0.0),	( 449579.0,
/ //0202	LJZ.0,	192.0, 0 100 E	102 5	0 0).	( 110207 1
2750017 0	102 2	102 J	192.5,	0.0),	( 449507.4,
/ //0201	192.2, 2 27500/7 (	192.2,	102 0	0 0).	( 110205 1
( 449591 2750047 0	، / / 5/ 5/ 5/ 100 101 7	101 7	192.0,	0.0),	( 449595.1,
2/2004/.0, / 440200	191./,	191./, 0 101 E	0.0); 101 F	0.0).	( 110102 0
	101 2	o, 191.5,	191.5,		
3/5884/.8,	191.2.		0 0).	0.0);	( 449402.0,
( 449406		191.2,	0.0);	0.0);	( 449402.8,
2750047 0	.7, 3758847.8	191.2, 8, 191.0,	0.0); 191.0,	0.0);	( 449402.8,
3758847.8,	.7, 3758847.8 190.7,	191.2, 8, 191.0, 190.7,	0.0); 191.0, 0.0);	0.0);	( 449402.8, ( 449410.6,
3758847.8, ( 449414	.7, 3758847.8 190.7, .5, 3758847.8	191.2, 8, 191.0, 190.7, 8, 190.5,	0.0); 191.0, 0.0); 190.5,	0.0); 0.0); 0.0);	<pre>( 449402.8, ( 449410.6, ( 449418.3,</pre>
3758847.8, ( 449414 3758847.8,	.7, 3758847.8 190.7, .5, 3758847.8 190.4,	191.2, 8, 191.0, 190.7, 8, 190.5, 190.4,	0.0); 191.0, 0.0); 190.5, 0.0);	0.0); 0.0); 0.0);	<pre>( 449402.8; ( 449410.6; ( 449418.3;</pre>
3758847.8, ( 449414 3758847.8, ( 449422	.7, 3758847.8 190.7, .5, 3758847.8 190.4, .2, 3758847.8	191.2, 8, 191.0, 190.7, 8, 190.5, 190.4, 8, 190.2,	0.0); 191.0, 0.0); 190.5, 0.0); 190.2,	0.0); 0.0); 0.0); 0.0);	<pre>( 449402.8; ( 449410.6; ( 449418.3; ( 449426.1;</pre>
3758847.8, ( 449414 3758847.8, ( 449422 3758847.8,	.7, 3758847.8 190.7, .5, 3758847.8 190.4, .2, 3758847.8 190.0,	191.2, 8, 191.0, 190.7, 8, 190.5, 190.4, 8, 190.2, 190.0,	0.0); 191.0, 0.0); 190.5, 0.0); 190.2, 0.0);	0.0); 0.0); 0.0); 0.0);	<pre>( 449402.8, ( 449410.6, ( 449418.3, ( 449426.1,</pre>
3758847.8, ( 449414 3758847.8, ( 449422 3758847.8, ( 449429	.7, 3758847.8 190.7, .5, 3758847.8 190.4, .2, 3758847.8 190.0, .9, 3758847.8	191.2, 8, 191.0, 190.7, 8, 190.5, 190.4, 8, 190.2, 190.0, 8, 189.8,	0.0); 191.0, 0.0); 190.5, 0.0); 190.2, 0.0); 189.8,	0.0); 0.0); 0.0); 0.0); 0.0);	<pre>( 449402.8, ( 449410.6, ( 449418.3, ( 449426.1, ( 449433.8,</pre>
3758847.8, ( 449414 3758847.8, ( 449422 3758847.8, ( 449429 3758847.8,	.7, 3758847.8 190.7, .5, 3758847.8 190.4, .2, 3758847.8 190.0, .9, 3758847.8 189.6,	191.2, 8, 191.0, 190.7, 8, 190.5, 190.4, 8, 190.2, 190.0, 8, 189.8, 189.6,	0.0); 191.0, 0.0); 190.5, 0.0); 190.2, 0.0); 189.8, 0.0);	0.0); 0.0); 0.0); 0.0); 0.0);	<pre>( 449402.8, ( 449410.6, ( 449418.3, ( 449426.1, ( 449433.8,</pre>
3758847.8, ( 449414 3758847.8, ( 449422 3758847.8, ( 449429 3758847.8, ( 449437	.7, 3758847.8 190.7, .5, 3758847.8 190.4, .2, 3758847.8 190.0, .9, 3758847.8 189.6, .7, 3758847.8	191.2, 8, 191.0, 190.7, 8, 190.5, 190.4, 8, 190.2, 190.0, 8, 189.8, 189.6, 8, 189.5,	0.0); 191.0, 0.0); 190.5, 0.0); 190.2, 0.0); 189.8, 0.0); 189.5,	0.0); 0.0); 0.0); 0.0); 0.0); 0.0);	<pre>( 449402.8, ( 449410.6, ( 449418.3, ( 449426.1, ( 449433.8, ( 449441.5,</pre>
3758847.8, ( 449414 3758847.8, ( 449422 3758847.8, ( 449429 3758847.8, ( 449437 3758847.8,	.7, 3758847.8 190.7, .5, 3758847.8 190.4, .2, 3758847.8 190.0, .9, 3758847.8 189.6, .7, 3758847.8 189.3,	191.2, 8, 191.0, 190.7, 8, 190.5, 190.4, 8, 190.2, 190.0, 8, 189.8, 189.6, 8, 189.5, 189.3,	0.0); 191.0, 0.0); 190.5, 0.0); 190.2, 0.0); 189.8, 0.0); 189.5, 0.0);	0.0); 0.0); 0.0); 0.0); 0.0); 0.0);	<pre>( 449402.8, ( 449410.6, ( 449418.3, ( 449426.1, ( 449433.8, ( 449441.5,</pre>
3758847.8, ( 449414 3758847.8, ( 449422 3758847.8, ( 449429 3758847.8, ( 449437 3758847.8, ( 449445	.7, 3758847.8 190.7, .5, 3758847.8 190.4, .2, 3758847.8 190.0, .9, 3758847.8 189.6, .7, 3758847.8 189.3, .4, 3758847.8	191.2, 8, 191.0, 190.7, 8, 190.5, 190.4, 8, 190.2, 190.0, 8, 189.8, 189.6, 8, 189.5, 189.3, 8, 189.2,	0.0); 191.0, 0.0); 190.5, 0.0); 190.2, 0.0); 189.8, 0.0); 189.5, 0.0); 189.2,	0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0);	<pre>( 449402.8, ( 449410.6, ( 449418.3, ( 449426.1, ( 449433.8, ( 449441.5, ( 449368.0,</pre>
3758847.8, ( 449414 3758847.8, ( 449422 3758847.8, ( 449429 3758847.8, ( 449437 3758847.8, ( 449445 3758861.8,	.7, 3758847.8 190.7, .5, 3758847.8 190.4, .2, 3758847.8 190.0, .9, 3758847.8 189.6, .7, 3758847.8 189.3, .4, 3758847.8 194.1,	191.2, 8, 191.0, 190.7, 8, 190.5, 190.4, 8, 190.2, 190.0, 8, 189.8, 189.6, 8, 189.5, 189.3, 8, 189.2, 194.1,	0.0); 191.0, 0.0); 190.5, 0.0); 190.2, 0.0); 189.8, 0.0); 189.5, 0.0); 189.2, 0.0);	0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0);	<pre>( 449402.8, ( 449410.6, ( 449418.3, ( 449426.1, ( 449433.8, ( 449441.5, ( 449368.0,</pre>
3758847.8, ( 449414 3758847.8, ( 449422 3758847.8, ( 449429 3758847.8, ( 449437 3758847.8, ( 449445 3758861.8, ( 449371	.7, 3758847.8 190.7, .5, 3758847.8 190.4, .2, 3758847.8 190.0, .9, 3758847.8 189.6, .7, 3758847.8 189.3, .4, 3758847.8 194.1, .9, 3758861.8	191.2, 8, 191.0, 190.7, 8, 190.5, 190.4, 8, 190.2, 190.0, 8, 189.8, 189.6, 8, 189.5, 189.3, 8, 189.2, 194.1, 8, 194.0,	0.0); 191.0, 0.0); 190.5, 0.0); 190.2, 0.0); 189.8, 0.0); 189.5, 0.0); 189.2, 0.0); 190.2, 0.0); 189.4, 0.0); 190.2, 0.0); 189.4, 0.0); 190.2, 0.0); 189.4, 0.0); 190.2, 0.0); 190.2, 0.0); 190.2, 0.0); 190.2, 0.0); 190.2, 0.0); 190.2, 0.0); 190.2, 0.0); 190.2, 0.0); 190.2, 0.0); 190.2, 0.0); 190.2, 0.0); 190.2, 0.0); 189.8, 0.0); 189.4, 0.0); 189.4, 0.0); 189.5, 0.0); 189.4, 0.0); 189.5, 0.0); 189.4, 0.0); 189.4, 0.0); 189.4, 0.0); 189.4, 0.0); 189.5, 0.0); 189.4, 0.0); 189.5, 0.0); 189.5, 0.0); 189.4, 0.0); 189.5, 0.0); 189.4, 0.0); 189.4, 0.0); 189.4, 0.0); 189.5, 0.0); 189.4, 0.0); 189.4, 0.0); 189.4, 0.0); 189.4, 0.0); 189.4, 0.0); 189.4, 0.0); 189.4, 0.0); 189.4, 0.0); 189.4, 0.0); 189.4, 0.0); 189.4, 0.0); 190.4, 0.0); 189.4, 0.0); 190.4, 0.0);	0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0);	<pre>( 449402.8, ( 449410.6, ( 449418.3, ( 449426.1, ( 449433.8, ( 449441.5, ( 449368.0, ( 449375.8,</pre>
3758847.8, ( 449414 3758847.8, ( 449422 3758847.8, ( 449429 3758847.8, ( 449437 3758847.8, ( 449445 3758861.8, ( 449371 3758861.8,	.7, 3758847.8 190.7, .5, 3758847.8 190.4, .2, 3758847.8 190.0, .9, 3758847.8 189.6, .7, 3758847.8 189.3, .4, 3758847.8 194.1, .9, 3758861.8 193.8,	191.2, 8, 191.0, 190.7, 8, 190.5, 190.4, 8, 190.2, 190.0, 8, 189.8, 189.6, 8, 189.5, 189.3, 8, 189.2, 194.1, 8, 194.0, 193.8,	0.0); 191.0, 0.0); 190.5, 0.0); 190.2, 0.0); 189.8, 0.0); 189.5, 0.0); 189.2, 0.0); 189.2, 0.0); 194.0, 0.0);	0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0);	<pre>( 449402.8, ( 449410.6, ( 449418.3, ( 449426.1, ( 449433.8, ( 449441.5, ( 449368.0, ( 449375.8,</pre>

3758861.8,	193.4,	193.4,	0.0);		
( 449387.4	4, 3758861.	8, 193.2,	193.2,	0.0);	( 449391.2,
3758861.8,	192.9,	192.9,	0.0);	·	
( 449395.3	1, 3758861.	8, 192.7,	192.7,	0.0);	( 449399.0,
3758861.8,	192.4,	192.4,	0.0);		
( 449402.8	8, 3758861.	8, 192.1,	192.1,	0.0);	( 449406.7,
3758861.8,	191.9,	191.9,	0.0);		
( 449410.0	6. 3758861.	8. 191.6.	191.6.	0.0):	( 449414.5.
3758861.8.	191.4.	191.4.	0.0):	,	(
( 449418.3	3. 3758861	8. 191.2.	191.2	0.0):	( 449422.2.
3758861.8.	190.9.	190.9.	0.0):	0.075	(
( 449426 '	1 3758861	1907	190 7	9 9).	( 119129 9
3758861 8	190 4	190 1	0 0)·	0.0);	( ++5+25.5;
( //9/33 9	2758861	190. <del>4</del> ,	190 2	9 9).	( 119137 7
2758861 8	100 0	100.0	0 0).	0.0),	( ++)+)/./,
/ //0//1	190.0, 5 2750061	190.0, 0 100.0	100 0	0 0).	
( 449441. 2750061 0	100 7	100 7	105.0,	0.0),	( 449449.4,
5/50001.0, ( 440269 (	109./, > >750075	109.7,	104 7	0 0).	( 440271 0
	104 6	b, 194./,	194.7,	0.0);	( 4495/1.9,
2/200/2.0, / 44027F (	194.0,	194.0,	0.0);	0.0).	( 110270 C
	104 2	o, 194.4,	194.4,	0.0);	( 449579.0,
3/588/5.8,	194.3,	194.3,	0.0);	0.0).	( 440207 4
( 449383.	5, 3/588/5.	8, 194.1,	194.1,	0.0);	( 449387.4,
3/588/5.8,	193.8,	193.8,	0.0);	a a)	(
( 449391.	2, 3/588/5.	8, 193.5,	193.5,	0.0);	( 449395.1,
3758875.8,	193.3,	193.3,	0.0);		
( 449399.0	ð, 3758875.	8, 193.0,	193.0,	0.0);	( 449402.8,
3758875.8,	192.8,	192.8,	0.0);		
( 449406.)	7, 3758875.	8, 192.5,	192.5,	0.0);	( 449410.6,
3758875.8,	192.2,	192.2,	0.0);		
★ *** AERMOD -	VERSION 1	9191 *** **	* C:\LAKES\AERMOD	VIEW\14172 HR	A\DPM\DPM.ISC
		*** 1	1/11/21		
*** AERMET - \	VERSION 16	216 *** ***			
	*	** 10:	36:53		
		PAG	E 7		
*** MODELOPTs	: RegDFA	ULT CONC EL	EV URBAN ADJ_U*		
			*** DISCRE	TE CARTESIAN RE	ECEPTORS ***
			(X-COORD, Y-C	COORD, ZELEV, Z	ZHILL, ZFLAG)
				(METERS)	
( 449414.	5, 3758875.	8, 192.0,	192.0,	0.0);	( 449418.3,
3758875.8,	191.7,	191.7,	0.0);		
( 449422.2	2, 3758875.	8, 191.5,	191.5,	0.0);	( 449426.1,
3758875.8,	191.2,	191.2,	0.0);		
( 449429.9	9, 3758875.	8, 191.0,	191.0,	0.0);	( 449433.8,
3758875.8,	190.7,	190.7,	0.0);		-
( 449437.	7, 3758875.	8, 190.4,	190.4,	0.0);	( 449441.5,
3758875.8,	190.2,	190.2,	0.0);		· ·
( 449445.4	4, 3758875.	8, 190.1,	190.1,	0.0);	( 449368.0,
			-	•	

3758889.9,	195.2,	195.2,	0.0);		
( 449371	.9, 3758889.9	9, 195.0,	195.0,	0.0);	(449375.8,
3758889.9,	194.9,	194.9,	0.0);	, -	•
( 449379.	.6, 3758889.9	9, 194.8,	194.8,	0.0);	(449383.5,
3758889.9.	194.5.	194.5.	0.0):		(
( 449387.	4. 3758889.9	9. 194.3.	194.3.	0.0):	( 449391.2.
3758889.9.	194.0.	194.0.	0.0):	,	(
( 1/9395	1 3758889 0	103 7	193 7	9 9).	( 119399 0
2750000 0	102 5	102 5	۰. ۱٫۶۰۲, ۵٫۵۰	0.0),	( ++)))).0,
/ //0/02	0 3750000 (	102 C	102 2	0 0).	( 110106 7
2750000 0	102 0	102 0	195.2,	0.0),	(449400.7,
5/50009.9,	193.0,	195.0,	0.0);	0.0).	
( 449410	.6, 3/58889.9	, 192.7,	192.7,	0.0);	( 449414.5,
3/58889.9,	192.5,	192.5,	0.0);		
( 449418	.3, 3758889.9	9, 192.2,	192.2,	0.0);	(449422.2,
3758889.9,	191.9,	191.9,	0.0);		
( 449426	.1, 3758889.9	9, 191.7,	191.7,	0.0);	( 449429.9,
3758889.9,	191.4,	191.4,	0.0);		
( 449433	.8, 3758889.9	), 191.2,	191.2,	0.0);	( 449437.7,
3758889.9,	190.9,	190.9,	0.0);		
( 449441	.5, 3758889.9	9, 190.7,	190.7,	0.0);	( 449445.4,
3758889.9,	190.6,	190.6,	0.0);	·	
( 449368	.0, 3758903.9	9, 195.8,	195.8,	0.0);	( 449371.9,
3758903.9.	195.7.	195.7.	0.0);	//	· · · ·
( 449375.	.8. 3758903.9	9. 195.6.	195.6.	0.0):	( 449379.6.
3758903.9.	195.5.	195.5.	0.0):	,	(
( 449383	5 3758903 0	195 2	195 2	9 9).	( 449387 4
3758083 0	105 0	105 0	0 0).	0.0),	( ++))0/.+,
/ 1/0201	2 2750002 (	195.0, 104 7	101 7	0 0).	( 110205 1
	104 5	104 F	194.7,	0.0),	( 449595.1,
5/56965.9,	194.5,	194.5,	0.0);	0.0).	( 440402 0
( 449399.	.0, 3/58903.9	, 194.2,	194.2,	0.0);	( 449402.8,
3/58903.9,	194.0,	194.0,	0.0);	o o)	
( 449406	./, 3/58903.9	9, 193./,	193./,	0.0);	( 449410.6,
3758903.9,	193.4,	193.4,	0.0);		
( 449414.	.5, 3758903.9	9, 193.1,	193.1,	0.0);	( 449418.3,
3758903.9,	192.8,	192.8,	0.0);		
( 449422.	.2, 3758903.9	9, 192.6,	192.6,	0.0);	( 449426.1,
3758903.9,	192.3,	192.3,	0.0);		
( 449429	.9, 3758903.9	9, 192.0,	192.0,	0.0);	( 449433.8,
3758903.9,	191.7,	195.0,	0.0);	, -	•
( 449437	.7, 3758903.9	9, 191.4,	195.0,	0.0);	( 449441.5,
3758903.9.	191.2.	191.2.	0.0);		
( 449445	4. 3758903.9	). 191.1.	191.1.	0.0):	( 449368.0.
3758918.0.	196.6.	196.6.	0.0):	,	(
( 449371	9 3758918 0	196 5	196 5	9 9).	( 449375 8
3758918 0	196 5	196 5	0 0)·	0.0);	( ++5575.0;
/ 1/0270	6 2759019 (	10.5,	106 /	0 0).	( 110202 5
2750010 0	106 C	106 C	190.4, 0 0).	0.0/,	( 449303.3)
(0.0100C	170.2, A 2750010 (	10E 0	105 0	0 0).	( 440201 2
2750010 0	.4, 3/30910.0 105 7	105 7 <b>105 7</b>	, ג. כבד ס טי	0.0),	( 449391.2,
2/2016.0°	1 2750010	192./,	(0.0);	0.0).	( 440200 0
( 449395.	.1, 3/58918.0	ı, 195.4,	195.4,	0.0);	(449399.0,

3758918.0, 195.1, 195.1, 0.0);			
(449402.8, 3758918.0, 194.9, 1	94.9,	0.0);	( 449406.7,
3758918.0, 194.6, 194.6, 0.0);	04.2	0.0).	
(449410.6, 3758918.0, 194.3, 1 3758918 0 194 0 195 0 0 0).	94.3,	0.0);	( 449414.5,
(449418.3, 3758918.0, 193.6, 1	95.0,	0.0);	( 449422.2,
3758918.0, 193.3, 195.0, 0.0);	,		、 、
( 449426.1, 3758918.0, 192.9, 1	95.0,	0.0);	( 449429.9,
3758918.0, 192.6, 195.0, 0.0);		`	<
(449433.8, 3758918.0, 192.2, 1	95.0,	0.0);	( 449437.7,
( AA9AA1 5 3758918 A 191 7 1	95 0	a a).	( 119115 1
3758918.0. 191.5. 191.5. 0.0):	55.0,	0.0),	( ++>++>.+,
(449368.0, 3758932.0, 197.2, 1	97.2,	0.0);	( 449371.9,
3758932.0, 197.2, 197.2, 0.0);			
(449375.8, 3758932.0, 197.2, 1	97.2,	0.0);	( 449379.6,
3758932.0, 197.2, 197.2, 0.0);	06.0	0.0).	( 440207 4
(449383.5, 3758932.0, 196.9, 1	96.9,	0.0);	( 449387.4,
(449391.2, 3758932.0, 196.4, 1	96.4.	0.0):	( 449395.1.
3758932.0, 196.2, 196.2, 0.0);	501.1	,	(
(449399.0, 3758932.0, 195.9, 1	95.9,	0.0);	( 449402.8,
3758932.0, 195.6, 195.6, 0.0);			
(449406.7, 3758932.0, 195.4, 1	95.4,	0.0);	( 449410.6,
3758932.0, 195.1, 195.1, 0.0);	04 7		/ 440419 2
(449414.5, 5758952.0, 194.7, 1 3758932 0 194 3 194 3 0 0).	94./,	0.0);	( 449418.3,
(449422.2, 3758932.0, 193.9, 1	93.9.	0.0);	( 449426.1,
3758932.0, 193.5, 193.5, 0.0);		,,,	
(449429.9, 3758932.0, 193.1, 1	93.1,	0.0);	( 449433.8,
3758932.0, 192.8, 192.8, 0.0);			
★ *** AERMOD - VERSION 19191 *** *** C:\L	AKES\AERMOD	VIEW\14172 HRA	\DPM\DPM.ISC
*** AEDMET VEDSTON 16216 *** ***	T		
*** 10·36·53			
10.50.55			
PAGE 8			
*** MODELOPTs: RegDFAULT CONC ELEV UR	BAN ADJ_U*		
(		E CARIESIAN RE	
(	X-COORD, F-C	(METERS)	HILL, ZFLAG)
( 449437.7, 3758932.0, 192.4, 1	92.4,	0.0);	( 449441.5,
3758932.0, 192.1, 192.1, 0.0);			
(449445.4, 3758932.0, 192.0, 1	92.0,	0.0);	( 449368.0,
3/58946.0, 197.7, 197.7, 0.0);	07 7		
(4493/1.9, 3/58946.0, 19/./, 1)	9/./,	0.0);	( 4493/5.8,

3758946.0, 197.7, 197.7, 0.0); (449379.6, 3758946.0, 197.7, 197.7, 0.0); (449383.5,

3758946.0,	197.4,	197.4,	0.0);		
( 449387.	4, 3758946.0	), 197.1,	197.1,	0.0);	( 449391.2,
3758946.0,	196.9,	196.9,	0.0);	, .	•
( 449395.	1, 3758946.0	), 196.6,	196.6,	0.0);	( 449399.0,
3758946.0,	196.4,	196.4,	0.0);		<b>、</b>
( 449402.	8, 3758946.0	), 196.1,	196.1.	0.0);	( 449406.7,
3758946.0.	195.8.	195.8.	0.0);	//	· · · · ·
( 449410.	6. 3758946.6	). 195.5.	195.5.	0.0):	( 449414.5.
3758946.0.	195.2.	195.2.	0.0):	0.073	( 11512115)
( 449418	3 3758946 0	194.8	194 8	9 9).	( 449422 2
3758946 0	194 4	194 4	0 0)·	0.0/3	( ++)+22.2,
( 110126	1 37580/6 0	101 Q	196.0	0 0).	( 110120 0
2759016 0	102 6	106 0	190.0,	0.0),	( 449429.9,
/ / ////22	193.0,	102 J	106.0	0 0).	
2750046 0	102 0	106 0	190.0,	0.0),	( 449457.7,
5/58940.0,	192.0,	190.0,	100.0	0.0).	
( 449441.	5, 3/58946.6	192.5,	196.0,	0.0);	( 449445.4,
3/58946.0,	192.3,	192.3,	0.0);	0.0	(
( 449368.	0, 3/58960.1	198.0,	198.0,	0.0);	( 4493/1.9,
3758960.1,	198.0,	198.0,	0.0);		
( 449375.	8, 3758960.1	l, 198.0,	198.0,	0.0);	(449379.6,
3758960.1,	198.0,	198.0,	0.0);		
( 449383.	5, 3758960.1	l, 197.8,	197.8,	0.0);	(449387.4,
3758960.1,	197.5,	197.5,	0.0);		
( 449391.	2, 3758960.1	l, 197.3,	197.3,	0.0);	( 449395.1,
3758960.1,	197.0,	197.0,	0.0);		
( 449399.	0, 3758960.1	l, 196.8,	196.8,	0.0);	( 449402.8,
3758960.1,	196.5,	196.5,	0.0);		
( 449406.	7, 3758960.1	l, 196.3,	196.3,	0.0);	( 449410.6,
3758960.1,	196.0,	196.0,	0.0);	·	
( 449414.	5, 3758960.1	l, 195.6,	195.6,	0.0);	( 449418.3,
3758960.1,	195.2,	195.2,	0.0);		<b>、</b>
( 449422.	2, 3758960.1	l, 194.9,	194.9,	0.0);	( 449426.1,
3758960.1.	194.5.	194.5.	0.0):		
( 449429.	9. 3758960.1	194.1.	194.1.	0.0):	( 449433.8.
3758960 1	193 7	193 7	0 0)·	0.0/3	( 115 155.0)
( 449437	7 3758960 1	193.3	193 3	9 9).	( 449441 5
3758960 1	193 0	193.0	0 0)·	0.0/3	( ++>++1.5,
( //9//5	A 3758960 1	192.0,	192 7	0 0).	( 119368 0
275007/ 1	100 0	100 0	192.7, 0 0)·	0.0),	( 449508.0,
/ 440271	190.0, 0 9750074 1	100.0,	109 0	0 0).	( 440275 9
( 4495/1.	100 0	100 0	190.0,	0.0),	( 4495/5.0,
5/569/4.1, / 440270	190.0,	190.0,	100.0	0.0).	( 440202 5
( 449379.	6, 3/589/4.1	198.0,	198.0,	0.0);	( 449383.5,
3/589/4.1,	197.8,	197.8,	0.0);	0.0).	( 440201 2
( 449387.	4, 3/589/4.1	197.6,	197.6,	0.0);	( 449391.2,
3/589/4.1,	197.5,	197.5,	0.0);		
( 449395.	1, 3758974.1	L, 197.3,	197.3,	0.0);	( 449399.0,
3758974.1,	197.1,	197.1,	0.0);		
( 449402.	8, 3758974.1	l, 196.9,	196.9,	0.0);	( 449406.7,
3758974.1,	196.7,	196.7,	0.0);		
( 449410.	6, 3758974.1	l, 196.5,	196.5,	0.0);	( 449414.5,

3758974.1,	196.1,	196.1,	0.0);		
( 449418.	3, 3758974.1	1, 195.7,	195.7,	0.0);	( 449422.2,
3758974.1,	195.3,	195.3,	0.0);	·	-
( 449426	1. 3758974	1. 194.9.	197.0.	0.0):	( 449429 9
375897/ 1	19/ 5	197 Ø	<u> </u>	0.075	(
/ / / / / / / /	· · · · · · · · · · · · · · · · · · ·	1 104 2	107.0	0 0).	
( 449455.	o, 5/509/4	1, 194.2,	197.0,	0.0);	( 449437.7,
3/589/4.1,	193.8,	197.0,	0.0);		
( 449441.	5, 3758974.1	1, 193.4,	197.0,	0.0);	( 449445.4,
3758974.1,	193.1,	197.0,	0.0);		
( 449368.	0, 3758988.2	2, 198.1,	198.1,	0.0);	( 449371.9,
3758988.2,	198.1,	198.1,	0.0);		
( 449375.	8, 3758988.2	2. 198.1.	198.1.	0.0);	( 449379.6.
3758988.2.	198.1.	198.1.	0.0):		(
( //9383	5 3758988 1	107 0	197 9	0 0).	( 119387 1
2750000 2	107 0	107 0	۲ <i>J</i> /. <i>J</i> ,	0.0/5	( ++))0/.+,
5/50900.2,	197.0,	197.0,	0.0),	0.0).	( 440205 1
( 449391.	2, 3/58988.4	2, 197.6,	197.6,	0.0);	( 449395.1,
3758988.2,	197.5,	197.5,	0.0);		
( 449399.	0, 3758988.2	2, 197.4,	197.4,	0.0);	( 449402.8,
3758988.2,	197.2,	197.2,	0.0);		
( 449406.	7, 3758988.2	2, 197.1,	197.1,	0.0);	( 449410.6,
3758988.2.	196.9.	196.9.	0.0);	, -	
( 449414.	5. 3758988.2	2. 196.5.	196.5.	0.0):	( 449418.3.
3758988 2	196 1		0 0)·	,	(
( //0/22	2 2758088 <sup>2</sup>	105 8	105 8	0 0).	( 110126 1
2750000 2	105 4	رە. دور 1 10 م	195.0,	0.0),	( 449420.1,
3/58988.2,	195.4,	195.4,	0.0);	o o)	( 440.422 0
( 449429.	9, 3/58988.4	2, 195.0,	195.0,	0.0);	( 449433.8,
3758988.2,	194.6,	194.6,	0.0);		
( 449437.	7, 3758988.2	2, 194.2,	194.2,	0.0);	( 449441.5,
3758988.2,	193.9,	193.9,	0.0);		
( 449445.	4, 3758988.2	2, 193.5,	193.5,	0.0);	( 449368.0,
3759002.2.	198.5.	198.5.	0.0);	, -	
( 449371.	9. 3759002.2	2. 198.5.	198.5.	0.0):	( 449375.8.
3759002 2	198 5	198 5	<u> </u>	0.075	( 1997910)
▲ *** AEDMOD	VEDSTON 1	10.5, 0101 *** **	* (•\\\ \/EC\ \ED		
AERHOD -	VERSION I	*** 1	1/11/21	NOD VIEW (1417	
		L L	1/11/21		
*** AERMEI -	VERSION 162	216 *** ***			
	**	** 10:	36:53		
		PAG	E 9		
*** MODELOPTs	: RegDFAL	JLT CONC EL	EV URBAN ADJ	U*	
	U		-	_	
			*** DIS(	CRETE CARTESI	AN RECEPTORS ***
			(X-COORD	V-COORD ZEL	EV ZHTIL ZELAG)
			(// COOND)	METER	<pre>c\; ZHIEL; ZHEAU;</pre>
				(HETER.	
/ / ////	< 3750000 f		100 5	0.0	( 440000 5
( 4493/9.	6, 3/59002.2	2, 198.5,	198.5,	0.0);	( 449383.5,
3759002.2,	198.3,	198.3,	0.0);		
( 449387.	4, 3759002.2	2, 198.1,	198.1,	0.0);	( 449391.2,
3759002.2,	197.9,	197.9,	0.0);		
( 449395.	1, 3759002.2	2, 197.7,	197.7,	0.0);	( 449399.0,

3759002.2,	197.5,	197.5,	0.0);		
( 449402	.8, 3759002.2	2, 197.3,	197.3,	0.0);	( 449406.7,
3759002.2,	197.1,	197.1,	0.0);		
( 449410	.6, 3759002.2	2, 196.9,	196.9,	0.0);	( 449414.5,
3759002.2,	196.6,	196.6,	0.0);		
( 449418	.3, 3759002.2	2, 196.3,	196.3,	0.0);	( 449422.2,
3759002.2,	196.0,	196.0,	0.0);		
( 449426	1, 3759002.2	2, 195.6,	195.6,	0.0);	( 449429.9,
3759002.2,	195.3,	195.3,	0.0);		
( 449433	.8, 3759002.2	2, 195.0,	195.0,	0.0);	( 449437.7,
3759002.2,	194.7,	194.7,	0.0);		•
( 449441	5, 3759002.2	2, 194.3,	194.3,	0.0);	( 449445.4,
3759002.2,	193.9,	193.9,	0.0);	, ,	
( 449368	.0, 3759016.2	2, 199.0,	199.0,	0.0);	( 449371.9,
3759016.2,	199.0,	199.0,	0.0);	, ,	
( 449375	.8, 3759016.2	2, 199.0,	199.0,	0.0);	( 449379.6,
3759016.2.	199.0.	199.0.	0.0);	,,,	· · · ·
( 449383.	5. 3759016.2	2. 198.7.	198.7.	0.0):	( 449387.4.
3759016.2.	198.5.	198.5.	0.0):		(
( 449391.	.2. 3759016.2	2. 198.2.	198.2.	0.0):	( 449395.1.
3759016.2.	198.0.	198.0.	0.0):	,	(
( 449399	0. 3759016	2. 197.7.	197.7.	0.0):	( 449402 8
3759016 2	197 4	197 4	9.9).	0.075	( 115 10210)
( 449406	7 3759016	197.7	197 2	9 9).	( 449410 6
3759016 2	196 9	196 9	0 0)·	0.0),	( ++)+10.0;
<i>Γ</i> /	5 3750016 <sup>°</sup>	190.9,	196 7	0 0).	( 110118 3
3750016 2	106 /	106 /	0.0).	0.0),	( 449410.5,
( 11012)	2 2750016 <sup>°</sup>	190.4, 0 106 0	106 2	0 0).	( 110126 1
2750016 2	105 0	ر کر	190.2,	0.0),	( 449420.1,
( 440420	193.9, 0 3750016 <sup>-</sup>	195.9, 2 105 c	105 6	0 0).	( 110122 0
2750016 2	105 4	2, 195.0, 105.4	195.0,	0.0),	( 449455.0,
5/59010.2, ( 440427	195.4,	195.4,	105 1	0 0).	/ 440441 E
( 449457	104 0	2, 195.1, 105 0	195.1,	0.0);	( 449441.5,
3/59010.2,	194.8,	195.0,	0.0);	0.0).	( 440260 0
( 449445	.4, 3/59016.	2, 194.4,	195.0,	0.0);	( 449368.0,
3/59030.3,	198.5,	198.5,	0.0);	0.0	( 440275 0
( 449371.	.9, 3/59030.	3, 198.5,	198.5,	0.0);	( 4493/5.8,
3/59030.3,	198.5,	198.5,	0.0);	0.0	(
( 449379.	.6, 3759030.3	3, 198.5,	198.5,	0.0);	(449383.5,
3759030.3,	198.3,	198.3,	0.0);		
( 449387.	.4, 3759030.	3, 198.0,	198.0,	0.0);	( 449391.2,
3759030.3,	197.8,	197.8,	0.0);		
( 449395	.1, 3759030.3	3, 197.5,	197.5,	0.0);	( 449399.0,
3759030.3,	197.2,	197.2,	0.0);		
( 449402	.8, 3759030.3	3, 197.0,	197.0,	0.0);	( 449406.7,
3759030.3,	196.7,	196.7,	0.0);		
( 449410	.6, 3759030.3	3, 196.5,	196.5,	0.0);	( 449414.5,
3759030.3,	196.3,	196.3,	0.0);		
( 449418	.3, 3759030.3	3, 196.1,	196.1,	0.0);	( 449422.2,
3759030.3,	195.9,	195.9,	0.0);		
( 449426	.1, 3759030.3	3, 195.7,	195.7,	0.0);	( 449429.9,

3759030.3,	195.5,	195.5,	0.0);		
( 449433.	8, 3759030.	3, 195.3,	195.3,	0.0);	( 449437.7,
3759030.3,	195.1,	195.1,	0.0);		
( 449441.	5, 3759030.	3, 194.8,	194.8,	0.0);	( 449445.4,
3759030.3,	194.4,	194.4,	0.0);		
( 449368.	0, 3759044.	3, 198.1,	198.1,	0.0);	( 449371.9,
3759044.3,	198.1,	198.1,	0.0);		
( 449375.	8, 3759044.	3, 198.1,	198.1,	0.0);	( 449379.6,
3759044.3,	198.1,	198.1,	0.0);		
( 449383.	5, 3759044.	3, 197.8,	197.8,	0.0);	( 449387.4,
3759044.3,	197.5,	197.5,	0.0);		
( 449391.	2, 3759044.	3, 197.3,	197.3,	0.0);	( 449395.1,
3759044.3,	197.0,	197.0,	0.0);		
( 449399.	0, 3759044.	3, 196.8,	196.8,	0.0);	( 449402.8,
3759044.3,	196.5,	196.5,	0.0);		
( 449406.	7, 3759044.	3, 196.2,	196.2,	0.0);	( 449410.6,
3759044.3,	196.0,	196.0,	0.0);		
( 449414.	5, 3759044.	3, 195.9,	195.9,	0.0);	( 449418.3,
3759044.3,	195.8,	195.8,	0.0);		
( 449422.	2, 3759044.	3, 195.6,	195.6,	0.0);	( 449426.1,
3759044.3,	195.5,	195.5,	0.0);		
( 449429.	9, 3759044.	3, 195.3,	195.3,	0.0);	( 449433.8,
3759044.3,	195.2,	195.2,	0.0);		
( 449437.	7, 3759044.	3, 195.1,	195.1,	0.0);	( 449441.5,
3759044.3,	194.8,	194.8,	0.0);		
( 449445.	4, 3759044.	3, 194.4,	194.4,	0.0);	
★ *** AERMOD ·	- VERSION 1	.9191 *** **	* C:\LAKES\AERMOD	VIEW\14172 H	RA\DPM\DPM.ISC
		*** 1	1/11/21		
*** AERMET -	VERSION 16	216 *** ***			

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

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\*\*\* METEOROLOGICAL DAYS SELECTED FOR

PROCESSING \*\*\*

(1=YES; 0=NO)

1111111111 11111111111 1 1 1 1 1 1 1 1 1 1 111 111 111111111 11111111111 1 1 1 1 1 1 1 1 1 1 111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1111111111 1111111111 1 1 1 1 1 1 1 1 1 1 111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1111111111 1111111111 11111111111 111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 111 1111111 1111111111 1111111 1111111111 1111111111 111111 NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE. \*\*\* UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES \*\*\* (METERS/SEC) 1.54, 3.09, 5.14, 8.23, 10.80, ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 HRA\DPM\DPM.ISC 11/11/21 \*\*\* \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* \*\*\* 10:36:53 PAGE 11 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\* \*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\* Surface file: ..\KRAL V9 ADJU\KRAL V9.SFC Met Version: 16216 Profile file: ..\KRAL\_V9\_ADJU\KRAL\_V9.PFL Surface format: FREE Profile format: FREE Surface station no.: Upper air station no.: 3171 3190 Name: UNKNOWN Name: UNKNOWN Year: 2012 Year: 2012 First 24 hours of scalar data YR MO DY JDY HR HØ U\* W\* DT/DZ ZICNV ZIMCH M-O LEN ZØ BOWEN WD HT REF TA ALBEDO REF WS HT . 12 01 01 1 01 -25.6 0.266 -9.000 -9.000 -999. 330. 77.9 0.15 2.40 1.00 2.93 55. 10.1 288.1 2.0 12 01 01 1 02 -26.8 0.277 -9.000 -9.000 -999. 351. 84.7 0.15 2.40 1.00 3.05 55. 10.1 287.0 2.0 12 01 01 1 03 -21.5 0.221 -9.000 -9.000 -999. 250. 53.5 0.15 2.40

1.00 2.45 74. 10.1 284.2 2.0 1 04 -22.0 0.227 -9.000 -9.000 -999. 260. 56.8 0.15 2.40 12 01 01 2.52 77. 10.1 285.9 1.00 2.0 12 01 01 1 05 -20.0 0.206 -9.000 -9.000 -999. 225. 46.8 0.15 2.40 10.1 285.4 1.00 2.30 80. 2.0 1 06 -14.4 0.171 -9.000 -9.000 -999. 12 01 01 170. 32.1 0.15 2.40 1.93 79. 10.1 287.0 2.0 1.00 1 07 -14.9 0.174 -9.000 -9.000 -999. 174. 33.2 0.15 12 01 01 2.40 1.00 1.96 77. 10.1 284.2 2.0 1 08 -11.9 0.169 -9.000 -9.000 -999. 167. 36.1 0.15 2.40 12 01 01 0.53 1.89 77. 10.1 288.1 2.0 1 09 40.4 0.234 0.359 0.006 272. -28.1 0.15 2.40 12 01 01 40. 81. 0.31 2.10 10.1 289.2 2.0 293. 12 01 01 1 10 112.6 0.246 0.742 0.005 129. -11.80.15 2.40 0.24 1.99 101. 10.1 296.4 2.0 12 01 01 1 11 161.0 0.402 1.188 0.005 369. 611. -35.6 0.15 2.40 10.1 298.8 0.21 3.68 78. 2.0 12 01 01 1 12 184.7 0.337 1.516 0.005 668. 473. -18.4 0.15 2.40 0.20 2.89 68. 10.1 300.4 2.0 12 01 01 1 13 183.9 0.310 1.809 0.005 1139. 414. -14.2 0.15 2.40 0.20 2.57 64. 10.1 302.5 2.0 12 01 01 1 14 156.6 0.374 1.852 0.005 1434. 549. -29.5 0.15 2.40 0.22 3.37 63. 10.1 303.1 2.0 1 15 104.3 0.382 1.658 0.005 1546. -47.2 0.15 12 01 01 567. 2.40 10.1 302.5 2.0 0.25 3.59 62. 12 01 01 1 16 31.8 0.374 1.123 0.005 1573. 550. -145.8 0.15 2.40 69. 0.34 3.76 10.1 300.9 2.0 1 17 -23.3 0.276 -9.000 -9.000 -999. 12 01 01 354. 84.0 0.15 2.40 0.62 3.03 59. 10.1 297.5 2.0 1 18 -21.5 0.229 -9.000 -9.000 -999. 12 01 01 264. 57.8 0.15 2.40 54. 10.1 295.4 1.00 2.54 2.0 1 19 -19.3 0.204 -9.000 -9.000 -999. 221. 45.6 0.15 2.40 12 01 01 1.00 2.27 79. 10.1 292.0 2.0 12 01 01 1 20 -20.7 0.218 -9.000 -9.000 -999. 244. 52.2 0.15 2.40 2.42 79. 10.1 292.5 2.0 1.00 1 21 -19.7 0.206 -9.000 -9.000 -999. 225. 12 01 01 46.9 0.15 2.40 1.00 2.30 95. 10.1 290.9 2.0 1 22 -17.6 0.190 -9.000 -9.000 -999. 199. 12 01 01 39.8 0.15 2.40 1.00 2.13 78. 10.1 290.4 2.0 12 01 01 1 23 -20.3 0.211 -9.000 -9.000 -999. 233. 49.0 0.15 2.40 1.00 2.35 52. 10.1 289.2 2.0 1 24 -16.4 0.183 -9.000 -9.000 -999. 189. 37.0 0.15 2.40 12 01 01 10.1 288.8 1.00 2.06 75. 2.0

First hour of profile data
YR MO DY HR HEIGHT F WDIR WSPD AMB\_TMP sigmaA sigmaW sigmaV
12 01 01 01 10.1 1 55. 2.93 288.2 99.0 -99.00
F indicates top of profile (=1) or below (=0)

★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* 10:36:53
\*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* 10:36:53
\*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\*

PAGE 12

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

	*** THE ANNU	JAL AVERAGE	CONCENTRATION	VALUES AVER	AGED OVER 5
YEARS FOR SOURCE	GROUP: ALL	***			
		INCLUDIN	G SOURCE(S):	L0000131	, L0000132
, L0000133 ,	L0000134 ,	L0000135	ر		
	L0000136 ,	L0000137	, L0000138	, L0000139	, L0000140
,L0000141 ,	L0000142 ,	L0000143	ر		
	L0000144 ,	L0000145	, L0000146	, L0000147	, L0000148
,L0000149 ,	L0000150 ,	L0000151	ر		
	L0000152 ,	L0000153	, L0000154	, L0000155	, L0000156

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\* CONC OF DPM IN MICROGRAMS/M\*\*3

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J

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X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
449368.02	3758763.53	0.04363	449371.89
3758763.53 0	.04167		
449375.76	3758763.53	0.03987	449379.63
3758763.53 0	.03822		
449383.50	3758763.53	0.03679	449387.37
3758763.53 0	.03546		
449391.24	3758763.53	0.03422	449395.11
3758763.53 0	.03306		
449398.98	3758763.53	0.03197	449402.85
3758763.53 0	.03094		
449406.72	3758763.53	0.02998	449410.59
3758763.53 0	.02909		
449414.46	3758763.53	0.02829	449418.33
3758763.53 0	.02753		
449422.20	3758763.53	0.02680	449426.07
3758763.53 0	.02611		
449429.94	3758763.53	0.02545	449433.81
3758763.53 0	.02483		
449437.68	3758763.53	0.02423	449441.55
3758763.53 0	.02367		
449445.42	3758763.53	0.02315	449368.02

3758777.57 0.04369		
449371.89 3758777.57	0.04164	449375.76
3758777.57 0.03976		
449379.63 3758777.57	0.03805	449383.50
3758777.57 0.03663		
449387.37 3758777.57	0.03530	449391.24
3758777.57 0.03408		
449395.11 3758777.57	0.03292	449398.98
3758777.57 0.03184		
449402.85 3758777.57	0.03082	449406.72
3758777.57 0.02986		
449410.59 3758777.57	0.02898	449414.46
3758777.57 0.02819		
449418.33 3758777.57	0.02743	449422.20
3758777.57 0.02671		
449426.07 3758777.57	0.02603	449429.94
3758777.57 0.02537		
449433.81 3758777.57	0.02475	449437.68
3758777.57 0.02416		
449441.55 3758777.57	0.02361	449445.42
3758777.57 0.02310		
449368.02 3758791.61	0.04393	449371.89
3758791.61 0.04196		
449375.76 3758791.61	0.04016	449379.63
3758791.61 0.03850		
449383.50 3758791.61	0.03704	449387.37
3758791.61 0.03569		
449391.24 3758791.61	0.03444	449395.11
3758791.61 0.03327		
449398.98 3758791.61	0.03217	449402.85
3758791.61 0.03113		
449406.72 3758791.61	0.03016	449410.59
3758791.61 0.02926		
449414.46 3758791.61	0.02845	449418.33
3758791.61 0.02768	0102015	119 120 099
449422.20 3758791.61	0,02696	449426.07
3758791.61 0.02626	0.02000	113 120107
449429.94 3758791.61	0,02560	449433 81
3758791.61 0.02497	0.02900	119199.01
449437 68 3758791 61	0.02437	449441.55
3758791.61 0.02380		
449445 42 3758791 61	0.02328	449368 02
3758805 65 0 04415	0.02520	449900.02
449371.89 3758805.65	0.04226	449375.76
3758805.65 0.04053	515 ILE0	
449379.63 3758805.65	0.03893	449383 50
3758805.65 0.03745		
449387.37 3758805.65	0.03607	449391 24
3758805.65 0.03479		
449395.11 3758805.65	0.03360	449398.98

3758805.65 0	.03248		
449402.85	3758805.65	0.03143	449406.72
3758805.65 0	.03044		
449410.59	3758805.65	0.02953	449414.46
3758805.65 0	.02871		
449418.33	3758805.65	0.02793	449422.20
3758805.65 0	.02719		
449426.07	3758805.65	0.02649	449429.94
3758805.65 0	.02582		
★ *** AERMOD - VERS	ION 19191 ***	*** C:\LAKES\AERMOD	VIEW\14172 HRA\DPM\DPM.ISC
	***	11/11/21	
*** AERMET - VERSI	ON 16216 ***	***	
	***	10:36:53	

PAGE 13 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

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	*** THE	ANNUAL AVERAGE	CONCENTRATION	VALUES AVE	RAGED OVER 5
YEARS FOR SOU	RCE GROUP: AL	L ***			
		INCLUDI	NG SOURCE(S):	L0000131	, L0000132
, L0000133	, L0000134	, L0000135	ر		
	L0000136	, L0000137	, L0000138	, L0000139	, L0000140
, L0000141	, L0000142	, L0000143	ر		
	L0000144	, L0000145	, L0000146	, L0000147	, L0000148
, L0000149	, L0000150	, L0000151	ر		
	L0000152	, L0000153	, L0000154	, L0000155	, L0000156
ر					

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

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\*\* CONC OF DPM IN MICROGRAMS/M\*\*3

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
449433.81	3758805.65	0.02519	449437.68
3758805.65	0.02458		
449441.55	3758805.65	0.02399	449445.42
3758805.65	0.02344		
449368.02	3758819.69	0.04420	449371.89
3758819.69	0.04232		
449375.76	3758819.69	0.04059	449379.63
3758819.69	0.03899		
449383.50	3758819.69	0.03751	449387.37
3758819.69	0.03613		
449391.24	3758819.69	0.03484	449395.11
3758819.69	0.03365		

449398.98 3758819.69	0.03253	449402.85
3758819.69 0.03148		
449406.72 3758819.69	0.03049	449410.59
3/58819.69 0.0295/	0.00075	440410 22
449414.46 3758819.69 2758810.60 0.02707	0.028/5	449418.33
<i>AA9A22 20 3758819 69</i>	0 02723	119126 07
3758819 69 0.02653	0.02725	449420.07
449429.94 3758819.69	0.02586	449433.81
3758819.69 0.02522		
449437.68 3758819.69	0.02461	449441.55
3758819.69 0.02403		
449445.42 3758819.69	0.02347	449368.02
3758833.73 0.04420	0.04222	440075 76
4493/1.89 3/58833./3	0.04232	4493/5./6
	0 02800	110202 50
3758833 73 0 03751	0.03899	449585.50
449387.37 3758833.73	0.03614	449391.24
3758833.73 0.03485		
449395.11 3758833.73	0.03366	449398.98
3758833.73 0.03254		
449402.85 3758833.73	0.03149	449406.72
3758833.73 0.03050		
449410.59 3758833.73	0.02959	449414.46
3/58833./3 0.028//	A A3700	440422 20
449410.55 5758835.75 3758833 73 0 02725	0.02799	449422.20
449426 07 3758833 73	0 02655	449429 94
3758833.73 0.02588	0.02033	113123131
449433.81 3758833.73	0.02524	449437.68
3758833.73 0.02464		
449441.55 3758833.73	0.02405	449445.42
3758833.73 0.02350		
449368.02 3758847.77	0.04471	449371.89
3758847.77 0.04284	0.04140	440070 60
4493/5./6 3/5884/.//	0.04112	4493/9.63
3/3884/.// 0.03933 //0383 50 37588/7 77	0 03802	119387 37
3758847.77 0.03663	0.05002	++))0/.)/
449391.24 3758847.77	0.03532	449395.11
3758847.77 0.03410		
449398.98 3758847.77	0.03296	449402.85
3758847.77 0.03189		
449406.72 3758847.77	0.03089	449410.59
3758847.77 0.02995	0.00000	
449414.46 3/58847.77	0.02909	449418.33
۵٬۵۵۵٬۷۰۱ ۵٬۵۵۶۵۶ ۸۸۹۸۵۵ ۵۵ ۲۲۵۵۶۸	0 02751	119126 07
3758847.77 0.02678	0.02/J1	-+

449429.94	3758847.77	0.02608	449433.81
3758847.77 0.	02542		
449437.68	3758847.77	0.02478	449441.55
3758847.77 0.	02419		
449445.42	3758847.77	0.02363	449368.02
3758861.81 0.	04516		
449371.89	3758861.81	0.04342	449375.76
3758861.81 0.	04172		
449379.63	3758861.81	0.04014	449383.50
3758861.81 0.	03860		
449387.37	3758861.81	0.03718	449391.24
3758861.81 0.	03585		
449395.11	3758861.81	0.03461	449398.98
3758861.81 0.	03345		
449402.85	3758861.81	0.03236	449406.72
3758861.81 0.	03133		
449410.59	3758861.81	0.03037	449414.46
3758861.81 0.	02946		
★ *** AERMOD - VERSI	ON 19191 ***	*** C:\LAKES\AERMOD	VIEW\14172 HRA\DPM\DPM.ISC
	***	11/11/21	
*** AERMET - VERSIO	N 16216 ***	***	
	***	10:36:53	

PAGE 14 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

	*** THE A	NNUAL AVERAGE	CONCENTRATION	VALUES AVE	RAGED OVER 5
YEARS FOR SOURCE	E GROUP: ALL	***			
		INCLUDI	NG SOURCE(S):	L0000131	, L0000132
, L0000133	, L0000134	, L0000135	, ,		
	L0000136	, L0000137	, L0000138	, L0000139	, L0000140
, L0000141	, L0000142	, L0000143	ر		
	L0000144	, L0000145	, L0000146	, L0000147	, L0000148
, L0000149	, L0000150	, L0000151	ر		
	L0000152	, L0000153	, L0000154	, L0000155	, L0000156

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

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\*\* CONC OF DPM IN MICROGRAMS/M\*\*3 \*\* X-COORD (M) Y-COORD (M) CONC X-COORD (M) Y-COORD (M) CONC 449418.33 3758861.81 0.02861 449422.20 3758861.81 0.02780 449426.07 3758861.81 0.02704 449429.94

3758861.81 0.	02631	0.02562	440427 60
449433.81 3758861.81 0.	3758861.81 02496	0.02562	449437.68
449441.55	3758861.81	0.02435	449445.42
3758861.81 0.	02378		
449368.02	3758875.85	0.04548	449371.89
3/588/5.85 0.	04364	0.04104	440270 62
4495/5./0 3758875 85 0	5/508/5.05 0/037	0.04194	4493/9.03
449383 50	3758875 85	0 03883	449387 37
3758875.85 0.	03749		113307.37
449391.24	3758875.85	0.03615	449395.11
3758875.85 0.	03490		
449398.98	3758875.85	0.03373	449402.85
3758875.85 0.	03263		
449406.72	3758875.85	0.03160	449410.59
3758875.85 0.	03062		
449414.46	3758875.85	0.02970	449418.33
3/588/5.85 0.	02884 2750075 05	0 02901	110126 07
449422.20 3758875 85 0	07773	0.02001	449420.07
449429,94	3758875.85	0,02649	449433.81
3758875.85 0.	02578	0.02015	113133.01
449437.68	3758875.85	0.02512	449441.55
3758875.85 0.	02450		
449445.42	3758875.85	0.02393	449368.02
3758889.89 0.	04564		
449371.89	3758889.89	0.04380	449375.76
3758889.89 0.	04210		
449379.63	3758889.89	0.04057	449383.50
3/58889.89 0.	03903	0.02760	440201 24
	3/58889.89	0.03760	449391.24
۵۰ ۵۵۵۵۵۵۶٬۵۶ U. ۸۸۹۵۹۶ 11	3758889 89	0 03509	110308 08
3758889.89 0.	03392	0.02202	440000.00
449402.85	3758889.89	0.03282	449406.72
3758889.89 0.	03178		
449410.59	3758889.89	0.03080	449414.46
3758889.89 0.	02987		
449418.33	3758889.89	0.02900	449422.20
3758889.89 0.	02818		
449426.07	3758889.89	0.02739	449429.94
3/58889.89 0.	02665	0.02504	440427 68
449433.81 3758889 89	2/20002.09 02526	0.02374	44943/.08
ΔΔ9ΔΔ1 55	3758889,89	0.02464	449445 42
3758889.89 0.	02407		····
449368.02	3758903.93	0.04595	449371.89
3758903.93 0.	04412		
449375.76	3758903.93	0.04243	449379.63

3758903.93	0.04085		
449383.50	3758903.93	0.03931	449387.37
3758903.93	0.03787		
449391.24	3758903.93	0.03658	449395.11
3758903.93	0.03532		
449398.98	3758903.93	0.03414	449402.85
3758903.93	0.03312		
449406.72	3758903.93	0.03207	449410.59
3758903.93	0.03108		
449414.46	3758903.93	0.03013	449418.33
3758903.93	0.02924		
449422.20	3758903.93	0.02839	449426.07
3758903.93	0.02759		
449429.94	3758903.93	0.02683	449433.81
3758903.93	0.02610		
449437.68	3758903.93	0.02541	449441.55
3758903.93	0.02478		
449445.42	3758903.93	0.02421	449368.02
3758917.97	0.04630		
449371.89	3758917.97	0.04447	449375.76
3758917.97	0.04279		
449379.63	3758917.97	0.04121	449383.50
3758917.97	0.03968		
449387.37	3758917.97	0.03825	449391.24
3758917.97	0.03691		
449395.11	3758917.97	0.03565	449398.98
3758917.97	0.03447		
★ *** AERMOD - VEF	(SION 19191 ***	*** C:\LAKES\AERMOD V	IEW\14172 HRA\DPM\DPM.ISC
	***	11/11/21	
*** AERMET - VERS	10N 16216 ***	* * *	
	* * *	10:36:53	

PAGE 15 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

	*** THE ANNU	JAL AVERAGE	CONCENTRATION	VALUES AVER	RAGED OVER 5
YEARS FOR SOURCE	GROUP: ALL	***			
		INCLUDIN	G SOURCE(S):	L0000131	, L0000132
, L0000133 ,	L0000134 ,	L0000135	ر		
	L0000136 ,	L0000137	, L0000138	, L0000139	, L0000140
,L0000141 ,	L0000142 ,	L0000143	ر		
	L0000144 ,	L0000145	, L0000146	, L0000147	, L0000148
, L0000149 ,	L0000150 ,	L0000151	ر		
	L0000152 ,	L0000153	, L0000154	, L0000155	, L0000156

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

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\*\* CONC OF DPM IN MICROGRAMS/M\*\*3

X-COORD (M) Y-COORD (M) Y-COORD (M) CONC	CONC	X-COORD (M)
449402.85 3/5891/.9/	0.03335	449406.72
3/5891/.9/ 0.03230 //0/10 E0 2759017 07	0 02125	110111 16
3758917 97 0 030/6	0.03133	449414.40
<i>A</i> /9/18 33 3758917 97	0 02953	119122 20
3758917 97 0 02865	0:02999	++)+22:20
449426.07 3758917.97	0.02782	449429 94
3758917.97 0.02703	0.02/02	++5+25.5+
449433.81 3758917.97	0.02627	449437.68
3758917.97 0.02556	0102027	
449441.55 3758917.97	0.02492	449445,42
3758917.97 0.02434		
449368.02 3758932.01	0.04656	449371.89
3758932.01 0.04471		
449375.76 3758932.01	0.04301	449379.63
3758932.01 0.04143		
449383.50 3758932.01	0.03995	449387.37
3758932.01 0.03851		
449391.24 3758932.01	0.03717	449395.11
3758932.01 0.03592		
449398.98 3758932.01	0.03473	449402.85
3758932.01 0.03362		
449406.72 3758932.01	0.03257	449410.59
3758932.01 0.03156		
449414.46 3758932.01	0.03062	449418.33
3758932.01 0.02968		
449422.20 3758932.01	0.02887	449426.07
3758932.01 0.02802		
449429.94 3758932.01	0.02721	449433.81
3758932.01 0.02644		
449437.68 3758932.01	0.02571	449441.55
3758932.01 0.02505		
449445.42 3758932.01	0.02446	449368.02
3758946.05 0.04677		
449371.89 3758946.05	0.04491	449375.76
3758946.05 0.04318		
449379.63 3758946.05	0.04159	449383.50
3758946.05 0.04006		
449387.37 3758946.05	0.03863	449391.24
3758946.05 0.03734		
449395.11 3758946.05	0.03607	449398.98
3758946.05 0.03489		
449402.85 3758946.05	0.03377	449406.72
3758946.05 0.03272		

\*\*

449410.	59 3758946.05	0.03171	449414.46
3758946.05	0.03073		
449418.	33 3758946.05	0.02984	449422.20
3758946.05	0.02894		
449426.	07 3758946.05	0.02817	449429.94
3758946.05	0.02736		
449433.	81 3758946.05	0.02658	449437.68
3758946.05	0.02585		
449441.	55 3758946.05	0.02518	449445.42
3758946.05	0.02456		
449368.	02 3758960.09	0.04695	449371.89
3758960.09	0.04507		
449375.	76 3758960.09	0.04333	449379.63
3758960.09	0.04172		
449383.	50 3758960.09	0.04020	449387.37
3758960.09	0.03876		
449391.	24 3758960.09	0.03743	449395.11
3758960.09	0.03616		
449398.	98 3758960.09	0.03503	449402.85
3758960.09	0.03392		
449406.	72 3758960.09	0.03287	449410.59
3758960.09	0.03186		
449414.	46 3758960.09	0.03088	449418.33
3758960.09	0.02994		
449422.	20 3758960.09	0.02910	449426.07
3758960.09	0.02824		
449429.	94 3758960.09	0.02743	449433.81
3758960.09	0.02673		
449437.	68 3758960.09	0.02599	449441.55
3758960.09	0.02530		
449445.	42 3758960.09	0.02466	449368.02
3758974.13	0.04704		
449371.	89 3758974.13	0.04515	449375.76
3758974.13	0.04341		
449379.	63 3758974.13	0.04180	449383.50
3758974.13	0.04027		
★ *** AERMOD - V	'ERSION 19191 ***	*** C:\LAKES\AERMOD	VIEW\14172 HRA\DPM\DPM.ISC
	***	11/11/21	
*** AERMET - VE	RSION 16216 ***	***	
	***	10:36:53	
		PAGE 16	
*** MODELOPTs:	RegDFAULT CONC	ELEV URBAN ADJ U*	
	-	—	
	*** THE ANNUAL	AVERAGE CONCENTRATION	VALUES AVERAGED OVER 5
YEARS FOR SOURCE	GROUP: ALL *	***	
		<pre>INCLUDING SOURCE(S):</pre>	L0000131 , L0000132
			-

, L0000133 , L0000134 , L0000135 , L0000136 , L0000137 , L0000138 , L0000139 , L0000140 , L0000141 , L0000142 , L0000143 ,

L0000144 , L0000149 , L0000150 L0000152	, L0000145 , L0000151 , L0000153	, L0000146 , , L0000154	, L0000147 , L0000148 , L0000155 , L0000156
<b>,</b> ***		*** DISCRETE	E CARTESIAN RECEPTOR POINTS
**		** CONC OF DPM	IN MICROGRAMS/M**3
X-COORD (M) Y-COORD Y-COORD (M) CONC	(M)	CONC	X-COORD (M)
449387.37 3758974	4.13	0.03885	449391.24
3758974.13         0.03752           449395.11         3758974	4.13	0.03627	449398.98
3758974.13 0.03509 449402.85 3758974	4.13	0.03404	449406.72
3758974.13 0.03300 449410.59 3758974	4.13	0.03201	449414.46
449418.33 3758974 2758074 12 0 02020	4.13	0.03009	449422.20
449426.07 3758974 3758974 13 0 02758	4.13	0.02835	449429.94
449433.81 3758974 3758974 13 0 02613	4.13	0.02680	449437.68
449441.55 3758974 3758974.13 0.02477	4.13	0.02543	449445.42
449368.02 375898 3758988.17 0.04522	3.17	0.04711	449371.89
449375.76 3758988 3758988.17 0.04186	3.17	0.04348	449379.63
449383.50 3758988 3758988.17 0.03893	3.17	0.04035	449387.37
449391.24 3758988 3758988.17 0.03636	3.17	0.03760	449395.11
449398.98 3758988 3758988.17 0.03410	3.17	0.03520	449402.85
449406.72 3758988 3758988.17 0.03213	3.17	0.03307	449410.59
449414.46 3758988 3758988.17 0.03022	3.1/	0.03115	449418.33
449422.20 3758988 3758988.17 0.02848	5.⊥/ 0 17	0.02933	449426.07
449429.94 5758988 3758988.17 0.02694 449437 68 375898	8.17	0.02707	445455.81 219211 55
	~ • ± /		

3758988.17 0.02556		
449445.42 3758988.17	0.02488	449368.02
3759002.21 0.04708		
449371.89 3759002.21	0.04518	449375.76
3759002.21 0.04343		
449379.63 3759002.21	0.04182	449383.50
3759002.21 0.04039		
449387.37 3759002.21	0.03901	449391.24
3759002.21 0.03770		
449395.11 3759002.21	0.03645	449398.98
3759002.21 0.03527		
449402.85 3759002.21	0.03416	449406.72
3759002.21 0.03311		
449410.59 3759002.21	0.03216	449414.46
3759002.21 0.03119		
449418.33 3759002.21	0.03027	449422.20
3759002.21 0.02940		
449426.07 3759002.21	0.02856	449429.94
3759002.21 0.02777		
449433.81 3759002.21	0.02701	449437.68
3759002.21 0.02633		
449441.55 3759002.21	0,02563	449445,42
3759002.21 0.02501		
449368.02 3759016.25	0.04709	449371.89
3759016.25 0.04519		11997 2009
449375.76 3759016.25	0.04345	449379,63
3759016 25 0 04183	0.01313	115575105
<i>44</i> 9383 50 3759016 25	0 04036	449387 37
3759016 25 0 03903	0.04030	
AA9391 24 3759016 25	0 03774	119395 11
3759016 25 0 03652	0.03//4	++>>>>
<i>1</i> /9398 98 3759016 25	0 03533	119102 85
3759016 25 0 03421	0.03333	++3+62.65
1/9/06 72 3759016 25	0 03315	119110 59
3759016 25 0 03218	0.05515	
AA9A1A A6 3759016 25	0 03123	119118 33
3759016 25 0 03032	0.03125	
1/9/22 20 3759016 25	0 02916	119126 07
3759016 25 0 02864	0.02940	449420.07
1/0/20 0/ 3750016 25	0 02786	110133 81
3750016 25 0 02712	0.02780	449499.81
<i>1/0/37 68 3750016 25</i>	0 02641	110111 55
2750016 25 0 02575	0.02041	449441.00
	0 02507	110268 02
2750020 20 0 0/721	0.02507	449508.02
→ *** AEDMOD VEDSTON 10101 ***	*** C•\\ AVES\ AEDMOD \	
• AENHOU - VENSION 19191 ****	11/11/21	1 + 1 + 1 + 2 = 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1
*** AEDMET _ \/EDCTAN 16016 ***	エエ/ エエ/ <b>ニ</b> エ ***	
ALINILI - VLIJJUN JUZIO	10.36.53	
	TO. DO. DD	

PAGE	17	
*** MODELOPTs: RegDFAULT CONC ELEV	/ URBAN ADJ_U*	
*** THE ANNUAL AVERAGY YEARS FOR SOURCE GROUP: ALL ***	GE CONCENTRATION	VALUES AVERAGED OVER 5
INCLU	DING SOURCE(S):	L0000131 , L0000132
, L0000133 , L0000134 , L0000135	, ,	1 00001 20 1 00001 40
	, L0000138 ,	10000139 , 10000140
	,	10000147 10000148
. L0000149 . L0000150 . L0000151	, .	, 20000147
L0000152 , L0000153	, L0000154 ,	L0000155 , L0000156
, ,		
***	*** DISCRETE	CARTESIAN RECEPTOR POINTS
<b>*</b> * *		
**	** CONC OF DPM	IN MICROGRAMS/M**3
X-COORD (M) Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M) CONC		
449371.89 3759030.29	0.04531	449375.76
3759030.29 0.04355		
449379.63 3759030.29	0.04193	449383.50
3759030.29 0.04049		
449387.37 3759030.29	0.03910	449391.24
3759030.29 0.03774	0.02646	440208 08
449395.11 3759030.29 3759030.29 0.03526	0.03646	449398.98
<u>449402 85 3759030 29</u>	0 03412	449406 72
3759030.29 0.03308	0:03412	++3+00.72
449410.59 3759030.29	0.03207	449414.46
3759030.29 0.03113		
449418.33 3759030.29	0.03024	449422.20
3759030.29 0.02939		
449426.07 3759030.29	0.02858	449429.94
3/59030.29 0.02/82	0 02700	110127 69
3759030 29 0 02640	0.02705	449437.08
449441.55 3759030.29	0.02575	449445.42
3759030.29 0.02506		
449368.02 3759044.33	0.04736	449371.89
3759044.33 0.04545		
449375.76 3759044.33	0.04368	449379.63
3/37044.33 0.04205 AAQ382 50 3750044 22	0 01010	110387 27
3759044.33 0.03903	0.04042	····

	449391.24	3759044.33	0.03765		449395.11
3759044.3	30.	03635			
	449398.98	3759044.33	0.03517		449402.85
3759044.3	30.	03402			
	449406.72	3759044.33	0.03294		449410.59
3759044.3	30.	03193			
	449414.46	3759044.33	0.03101		449418.33
3759044.3	30.	03013			
	449422.20	3759044.33	0.02931		449426.07
3759044.3	30.	02852			
	449429.94	3759044.33	0.02777		449433.81
3759044.3	3 0.	02706			
	449437.68	3759044.33	0.02639		449441.55
3759044.3	3 0.	02574			
	449445.42	3759044.33	0.02505		
★ *** AER	MOD - VERSI	ION 19191 ***	*** C:\LAKES\A	AERMOD VIEW\1	4172 HRA\DPM\DPM.ISC
		***	11/11/21		
*** AERM	ET - VERSIO	N 16216 ***	***		
		***	10:36:53		
			PAGE 18		
*** MODF			FLEV LIRBAN A	און בט	
HODE		CEDIAOLI CONC			
			*** THE CLIMMARY		
AVERAGED		<b>ADC</b> ***	THE JUNNART	OF MAXIMON	ANNOAL RESOLTS
AVENAGED		AND			
	**		CONC OF DPM		RUGRAMS/Mini S
		NETWORK			
GROUP ID		AVE	RAGE CONC	REC	EPTOR (XR, YR,
ZELEV, ZH	ILL, ZFLAG)	OF TYPE GRI	D-ID		
			-		
ALL	1ST HIGHES	ST VALUE IS	0.04736 AT (	449368.02,	3759044.33,
198.07,	198.07,	0.00) DC			
	2ND HIGHES	ST VALUE IS	0.04721 AT (	449368.02,	3759030.29,
198.53,	198.53,	0.00) DC			
	3RD HIGHES	ST VALUE IS	0.04711 AT (	449368.02,	3758988.17,
198.06,	198.06,	0.00) DC			
-	4TH HIGHES	ST VALUE IS	0.04709 AT (	449368.02,	3759016.25,
199.00,	199.00,	0.00) DC	· ·		-
	5TH HIGHES	ST VALUE IS	0.04708 AT (	449368.02.	3759002.21.
198.53.	198.53.	0.00) DC	<b>X</b>		,
· • •	6TH HIGHES	ST VALUE IS	0.04704 AT (	449368.02.	3758974.13.
198.00.	198.00.	0.00) DC	- (		,
		· -			

7TH HIGHEST VALUE IS 0.04695 AT ( 449368.02, 3758960.09, 198.00, 198.00, 0.00) DC 8TH HIGHEST VALUE IS 0.04677 AT ( 449368.02, 3758946.05, 197.66, 0.00) DC 197.66, 9TH HIGHEST VALUE IS 0.04656 AT ( 449368.02, 3758932.01, 197.19, 0.00) DC 197.19, **10TH HIGHEST VALUE IS** 0.04630 AT ( 449368.02, 3758917.97, 196.55, 196.55, 0.00) DC \*\*\* RECEPTOR TYPES: GC = GRIDCART GP = GRIDPOLRDC = DISCCART DP = DISCPOLR\*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 HRA\DPM\DPM.ISC \*\*\* 11/11/21 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* \*\*\* 10:36:53 PAGE 19 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\* \*\*\* Message Summary : AERMOD Model Execution \*\*\* ----- Summary of Total Messages ------A Total of 0 Fatal Error Message(s) A Total of 2 Warning Message(s) A Total of 1638 Informational Message(s) A Total of 43848 Hours Were Processed A Total of 1039 Calm Hours Identified A Total of 599 Missing Hours Identified ( 1.37 Percent) \*\*\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*\*\* \*\*\* NONE \*\*\* \*\*\*\*\*\*\* \*\*\*\*\*\* WARNING MESSAGES ME W186 130 MEOPEN: THRESH 1MIN 1-min ASOS wind speed threshold used 0.50 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET ME W187 130 \*\*\*\*\*\* \*\*\* AERMOD Finishes Successfully \*\*\* 

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** Lakes Environmental AERMOD MPI
**
**
** AERMOD INPUT PRODUCED BY:
** AERMOD VIEW VER. 10.0.1
** LAKES ENVIRONMENTAL SOFTWARE INC.
** DATE: 11/11/2021
** FILE: C:\LAKES\AERMOD VIEW\14172 HRA\DSLTOG\DSLTOG.ADI
**
**
**
** AERMOD CONTROL PATHWAY
**
**
CO STARTING
  TITLEONE C:\LAKES\AERMOD VIEW\14172 HRA\DSLTOG\DSLTOG.ISC
  MODELOPT DFAULT CONC
  AVERTIME 1 8
  URBANOPT 2189641
  POLLUTID TOGDSL
  RUNORNOT RUN
  ERRORFIL DSLTOG.ERR
CO FINISHED
**
** AERMOD SOURCE PATHWAY
**
**
SO STARTING
** SOURCE LOCATION **
** SOURCE ID - TYPE - X COORD. - Y COORD. **
** _____
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE1
** DESCRSRC I-15 FREEWAY
** PREFIX
** LENGTH OF SIDE = 46.00
** CONFIGURATION = ADJACENT
** EMISSION RATE = 0.00077
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 2
** 449288.372, 3758373.924, 188.51, 3.49, 21.40
** 449298.585, 3759554.578, 201.92, 3.49, 21.40
```

**							
			440200 571	2750206	022	100 77	-
			449288.571	2720220	021	100.77	
	LOCATION LOODOOD	VOLUME	449288.969	3738442	.921	189.29	
	LOCATION LOODOOD	VOLUME	449289.367	3/58488	.920	189.82	
	LOCATION LOOGOOGA	VOLUME	449289.765	3/58534	.918	190.34	
	LOCATION LOOOOOOS	VOLUME	449290.163	3/58580	.916	190.86	
	LOCATION L0000006	VOLUME	449290.561	3758626	.914	191.38	
	LOCATION L0000007	VOLUME	449290.958	3758672	.913	191.91	
	LOCATION L0000008	VOLUME	449291.356	3758718	.911	192.43	
	LOCATION L0000009	VOLUME	449291.754	3758764	.909	192.95	
	LOCATION L0000010	VOLUME	449292.152	3758810	.908	193.47	
	LOCATION L0000011	VOLUME	449292.550	3758856	.906	194.00	
	LOCATION L0000012	VOLUME	449292.948	3758902	.904	194.52	
	LOCATION L0000013	VOLUME	449293.346	3758948	.902	195.04	
	LOCATION L0000014	VOLUME	449293.744	3758994	.901	195.56	
	LOCATION L0000015	VOLUME	449294.142	3759040	.899	196.09	
	LOCATION L0000016	VOLUME	449294.540	3759086	.897	196.61	
	LOCATION L0000017	VOLUME	449294.938	3759132	.895	197.13	
	LOCATION L0000018	VOLUME	449295.335	3759178	.894	197.65	
	LOCATION L0000019	VOLUME	449295.733	3759224	.892	198.18	
	LOCATION LOOOOO20	VOLUME	449296.131	3759270	.890	198.70	
	LOCATION 10000021		449296.529	3759316	.889	199.22	
	LOCATION 10000022		449296,927	3759362	.887	199.74	
			449297 325	3759408	885	200 27	
			1/10207 723	3759/5/	883	200.27	
			44J2J7.72J 1/10208 121	3759500	882	200.75	
	LOCATION LOODOOZS		449298.121	2750546	002	201.01	
**	END OF I THE VOLUME SO		449298.319 CI TNE1	5755540	.000	201.05	
**	COUDCE DADAMETEDS **	UNCE ID -	SLINEI				
**	I THE VOLUME SOURCE TO						
	LINE VOLUME SOURCE ID	= SLINEI	C1 F 4 2	40	21 40	2 25	
	SRCPARAM LOODOOD	0.0000290		.49	21.40	2.25	
	SRCPARAM L0000002	0.0000290		.49	21.40	3.25	
	SRCPARAM L0000003	0.0000290	b154 3	.49	21.40	3.25	
	SRCPARAM L0000004	0.0000290	b154 3	.49	21.40	3.25	
	SRCPARAM L0000005	0.0000290	6154 3	.49	21.40	3.25	
	SRCPARAM L0000006	0.0000290	6154 3	.49	21.40	3.25	
	SRCPARAM L0000007	0.000029	6154 3	.49	21.40	3.25	
	SRCPARAM L0000008	0.000029	6154 3	.49	21.40	3.25	
	SRCPARAM L0000009	0.000029	6154 3	.49	21.40	3.25	
	SRCPARAM L0000010	0.000029	6154 3	.49	21.40	3.25	
	SRCPARAM L0000011	0.000029	6154 3	.49	21.40	3.25	
	SRCPARAM L0000012	0.000029	6154 3	.49	21.40	3.25	
	SRCPARAM L0000013	0.000029	6154 3	.49	21.40	3.25	
	SRCPARAM L0000014	0.000029	6154 3	.49	21.40	3.25	
	SRCPARAM L0000015	0.000029	6154 3	.49	21.40	3.25	
	SRCPARAM L0000016	0.000029	6154 3	.49	21.40	3.25	
	SRCPARAM L0000017	0.000029	6154 3	.49	21.40	3.25	
	SRCPARAM L0000018	0.000029	6154 3	.49	21.40	3.25	
	SRCPARAM L0000019	0.000029	6154 3	.49	21.40	3.25	
	SRCPARAM L0000020	0.000029	6154 3	.49	21.40	3.25	

```
SRCPARAM L0000021
                 0.0000296154
                             3.49
                                     21.40
                                              3.25
                              3.49
                                              3.25
  SRCPARAM L0000022
                  0.0000296154
                                    21.40
  SRCPARAM L0000023
                              3.49
                                     21.40
                                              3.25
                 0.0000296154
                              3.49
  SRCPARAM L0000024
                  0.0000296154
                                     21.40
                                             3.25
  SRCPARAM L0000025
                 0.0000296154
                              3.49
                                     21.40
                                             3.25
  SRCPARAM L0000026
                  0.0000296154
                               3.49
                                     21.40
                                              3.25
** _____
  URBANSRC ALL
  SRCGROUP ALL
SO FINISHED
**
** AERMOD RECEPTOR PATHWAY
**
**
RE STARTING
  INCLUDED DSLTOG.ROU
RE FINISHED
**
*****
** AERMOD METEOROLOGY PATHWAY
**
**
ME STARTING
  SURFFILE ..\KRAL_V9_ADJU\KRAL_V9.SFC
  PROFFILE ..\KRAL V9 ADJU\KRAL V9.PFL
  SURFDATA 3171 2012
  UAIRDATA 3190 2012
  PROFBASE 245.0 METERS
ME FINISHED
**
** AERMOD OUTPUT PATHWAY
**
**
OU STARTING
  RECTABLE ALLAVE 1ST
  RECTABLE 1 1ST
  RECTABLE 8 1ST
** AUTO-GENERATED PLOTFILES
  PLOTFILE 1 ALL 1ST DSLTOG.AD\01H1GALL.PLT 31
         8 ALL 1ST DSLTOG.AD\08H1GALL.PLT 32
  PLOTFILE
  SUMMFILE DSLTOG.SUM
OU FINISHED
```

\*\*\* Message Summary For AERMOD Model Setup \*\*\*

----- Summary of Total Messages ------A Total of 0 Fatal Error Message(s) A Total of 2 Warning Message(s) A Total of 0 Informational Message(s) \*\*\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*\*\* \*\*\* NONE \*\*\* \*\*\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*\*\* ME W186 130 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50 ME W187 MEOPEN: ADJ U\* Option for Stable Low Winds used in AERMET 130 \*\*\* SETUP Finishes Successfully \*\*\* \*\*\*\*\*\* ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 HRA\DSLTOG\DSLTOG.ISC \*\*\* 11/11/21 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* \*\*\* 11:28:21 PAGE 1 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ U\* \*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\* . . . . . . . . . . . . . . . \*\*Model Is Setup For Calculation of Average CONCentration Values. -- DEPOSITION LOGIC --\*\*NO GAS DEPOSITION Data Provided. \*\*NO PARTICLE DEPOSITION Data Provided. \*\*Model Uses NO DRY DEPLETION. DRYDPLT = F \*\*Model Uses NO WET DEPLETION. WETDPLT = F \*\*Model Uses URBAN Dispersion Algorithm for the SBL for 26 Source(s), 1 Urban Area(s): for Total of Urban Population = 2189641.0 ; Urban Roughness Length = 1.000 m \*\*Model Uses Regulatory DEFAULT Options: 1. Stack-tip Downwash. 2. Model Accounts for ELEVated Terrain Effects.

3. Use Calms Processing Routine. 4. Use Missing Data Processing Routine. 5. No Exponential Decay. 6. Urban Roughness Length of 1.0 Meter Assumed. \*\*Other Options Specified: ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET CCVR Sub - Meteorological data includes CCVR substitutions TEMP Sub - Meteorological data includes TEMP substitutions \*\*Model Assumes No FLAGPOLE Receptor Heights. \*\*The User Specified a Pollutant Type of: TOGDSL \*\*Model Calculates 2 Short Term Average(s) of: 1-HR 8-HR \*\*This Run Includes: 26 Source(s); 1 Source Group(s); and 441 Receptor(s) with: 0 POINT(s), including 0 POINTHOR(s) 0 POINTCAP(s) and 26 VOLUME source(s) and: Ø AREA type source(s) and: 0 LINE source(s) and: and: 0 RLINE/RLINEXT source(s) 0 OPENPIT source(s) and: and: 0 BUOYANT LINE source(s) with 0 line(s) \*\*Model Set To Continue RUNning After the Setup Testing. \*\*The AERMET Input Meteorological Data Version Date: 16216 \*\*Output Options Selected: Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword) Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword) Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword) \*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours m for Missing Hours b for Both Calm and Missing Hours \*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 245.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0 Emission Units = GRAMS/SEC ;

Emission Rate Unit Factor = 0.10000E+07 Output Units = MICROGRAMS/M\*\*3 \*\*Approximate Storage Requirements of Model = 3.6 MB of RAM. \*\*Input Runstream File: aermod.inp \*\*Output Print File: aermod.out \*\*Detailed Error/Message File: DSLTOG.ERR \*\*File for Summary of Results: DSLTOG.SUM ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 HRA\DSLTOG\DSLTOG.ISC \*\*\* 11/11/21 \*\*\* \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* 11:28:21 PAGE 2 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\* \*\*\* VOLUME SOURCE DATA \*\*\* NUMBER EMISSION RATE BASE RELEASE INIT. INIT. URBAN EMISSION RATE PART. (GRAMS/SEC) X ELEV. HEIGHT SOURCE Y SY SZ SOURCE SCALAR VARY CATS. (METERS) (METERS) (METERS) (METERS) (METERS) ID ΒY (METERS) . . . . . . . . . . . . .

L000001	0	0.29615E-04	449288.6 3758396.9	188.8	3.49	21.40
3.25 YES						
L000002	0	0.29615E-04	449289.0 3758442.9	189.3	3.49	21.40
3.25 YES						
L000003	0	0.29615E-04	449289.4 3758488.9	189.8	3.49	21.40
3.25 YES						
L0000004	0	0.29615E-04	449289.8 3758534.9	190.3	3.49	21.40
3.25 YES						
L0000005	0	0.29615E-04	449290.2 3758580.9	190.9	3.49	21.40
3.25 YES						
L000006	0	0.29615E-04	449290.6 3758626.9	191.4	3.49	21.40
3.25 YES						
L000007	0	0.29615E-04	449291.0 3758672.9	191.9	3.49	21.40
3.25 YES						
L000008	0	0.29615E-04	449291.4 3758718.9	192.4	3.49	21.40
3.25 YES						

L0000009	0	0.29615E-04	449291.8 3758764	.9 193.0	3.49	21.40
3.25 YES						
L0000010	0	0.29615E-04	449292.2 3758810	.9 193.5	3.49	21.40
3.25 YES						
L0000011	0	0.29615E-04	449292.5 3758856	.9 194.0	3.49	21.40
3.25 YES						
L0000012	0	0.29615E-04	449292.9 3758902	.9 194.5	3.49	21.40
3.25 YES						
L0000013	0	0.29615E-04	449293.3 3758948	.9 195.0	3.49	21.40
3.25 YES						
L0000014	0	0.29615E-04	449293.7 3758994	.9 195.6	3.49	21.40
3.25 YES						
L0000015	0	0.29615E-04	449294.1 3759040	.9 196.1	3.49	21.40
3.25 YES						
L0000016	0	0.29615E-04	449294.5 3759086	.9 196.6	3.49	21.40
3.25 YES						
L0000017	0	0.29615E-04	449294.9 3759132	.9 197.1	3.49	21.40
3.25 YES						
L0000018	0	0.29615E-04	449295.3 3759178	.9 197.7	3.49	21.40
3.25 YES						
L0000019	0	0.29615E-04	449295.7 3759224	.9 198.2	3.49	21.40
3.25 YES						
L0000020	0	0.29615E-04	449296.1 3759270	.9 198.7	3.49	21.40
3.25 YES						
L0000021	0	0.29615E-04	449296.5 3759316	.9 199.2	3.49	21.40
3.25 YES						
L0000022	0	0.29615E-04	449296.9 3759362	.9 199.7	3.49	21.40
3.25 YES						
L0000023	0	0.29615E-04	449297.3 3759408	.9 200.3	3.49	21.40
3.25 YES						
L0000024	0	0.29615E-04	449297.7 3759454	.9 200.8	3.49	21.40
3.25 YES						
L0000025	0	0.29615E-04	449298.1 3759500	.9 201.3	3.49	21.40
3.25 YES						
L0000026	0	0.29615E-04	449298.5 3759546	.9 201.8	3.49	21.40
3.25 YES						
★ *** AERMOD -	VERSIO	N 19191 ***	*** C:\LAKES\AE	RMOD VIEW\1417	72	
HRA\DSLTOG\DSL	TOG.ISC		***	11/11/21		
*** AERMET -	VERSION	16216 ***	***			
		***	11:28:21			

PAGE 3 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS

SRCGROUP ID

SOURCE IDs -----

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ALL L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , , L0000008 L0000006 , L0000007 , L0000009 , L0000011 , L0000012 , L0000013 , L0000010 ر , L0000016 L0000014 , L0000015 ر L0000017 , L0000018 , L0000020 , L0000019 , L0000021 , , L0000024 L0000022 , L0000023 • , L0000026 L0000025 ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 \*\*\* HRA\DSLTOG\DSLTOG.ISC 11/11/21 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* \*\*\* 11:28:21 PAGE Δ \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ U\* \*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\* URBAN ID SOURCE IDs URBAN POP \_ \_ \_ \_ \_ \_ \_ \_ \_ ----\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ , L0000002 , L0000003 , L0000004 2189641. L0000001 ر , L0000007 L0000005 , L0000006 ر L0000008 ر L0000009 , L0000011 , L0000010 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 ر , L0000019 , L0000020 , L0000021 L0000017 , L0000018 ر , L0000024 L0000022 , L0000023 ر L0000025 , L0000026 ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 11/11/21 HRA\DSLTOG\DSLTOG.ISC \*\*\* \*\*\* \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* 11:28:21 PAGE 5 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ U\* \*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\* (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG) (METERS)

(449368.0, 3758763.5, 192.6,	195.0,	0.0);	( 449371.9,		
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(449391.2, 3758791.6, 190.7,	190.7,	0.0);	( 449395.1,		
3758791.6,	190.5,	190.5,	0.0);		
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( 449414.	5, 3758791.6	5, 189.3,	189.3,	0.0);	( 449418.3,
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( 449379.	6, 3758805.6	5, 192.0,	192.0,	0.0);	( 449383.5,
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( 449387.	4, 3758805.6	5, 191.5,	191.5,	0.0);	( 449391.2,
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( 449395.	1, 3758805.6	5, 190.9,	190.9,	0.0);	( 449399.0,
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( 449402.	8, 3758805.6	5, 190.4,	190.4,	0.0);	( 449406.7,
3758805.6,	190.2,	190.2,	0.0);		
( 449410.	6, 3758805.6	5, 189.9,	189.9,	0.0);	( 449414.5,
3758805.6,	189.8,	189.8,	0.0);		
( 449418.	3, 3758805.6	5, 189.7,	189.7,	0.0);	( 449422.2,
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( 449433.	8, 3758805.6	5, 189.2,	189.2,	0.0);	( 449437.7,
3758805.6,	189.0,	189.0,	0.0);		_
( 449441.	5, 3758805.6	5, 188.9,	188.9,	0.0);	( 449445.4,
3758805.6,	188.8,	188.8,	0.0);		
( 449368.	0, 3758819.7	7, 192.8,	192.8,	0.0);	( 449371.9,
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( 449375.	8, 3758819.7	7, 192.2,	192.2,	0.0);	( 449379.6,
3758819.7,	192.0,	192.0,	0.0);		
( 449383.	5, 3758819.7	7, 191.7,	191.7,	0.0);	( 449387.4,
3758819.7,	191.5,	191.5,	0.0);		
▲ *** AERMOD	- VERSION 1	9191 *** **	* C:\LAKES\AERMOD	VIEW\14172	
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*** AERMET -	VERSION 162	216 *** ***			
	**	** 11:2	28:21		

PAGE 6
\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*

(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG) (METERS)

	( 449391.	2,	3758819.	7,	191.2,	191.2,	(	ð.0);	(	449395.1,
37588	19.7,	1	91.0,	191.0,		0.0);				
	( 449399.	0,	3758819.	7,	190.7,	190.7,	(	ð.0);	(	449402.8,
37588	19.7,	1	90.4,	190.4,		0.0);				
	( 449406.	.7 <b>,</b>	3758819.	7,	190.2,	190.2,	(	9.0);	(	449410.6,
37588	19.7,	1	90.0,	190.0,		0.0);				
	( 449414.	5,	3758819.	7,	189.8,	189.8,	(	ð.0);	(	449418.3,
37588	19.7,	1	89.7,	189.7,		0.0);				
	( 449422.	2,	3758819.	7,	189.6,	189.6,	(	0.0);	(	449426.1,
37588	19.7,	1	89.5,	189.5,	100 0	0.0);			,	
27500	( 449429. 10 7	.9, 1	3/58819.	/,	189.3,	189.3,	ť	0.0);	(	449433.8,
3/588	19./,	- T	89.2, 2750010	189.2, 7	100 1	190 1	(	2 0).	,	440441 E
27500	( 449437. 10 7	ر / . 1	2/20013.	/, 100 0	189.1,	109.1,	e	0.0);	(	449441.5,
57500	19.7, / ЛЛОЛЛБ	л Т	3758810	100.9, 7	1 Q Q Q	192 2	(	2 91.	7	110368 0
37588	( 449449. 22 7	ر+، 1	92 8	/, 192 8	100.0,	0 0)·	t	5.0),	C	449508.0,
57500	( 449371.	9	3758833	7.	192.5.	192.5.	G	a.a):	(	449375.8.
37588	33.7.	ر د . 1	92.2.	, , 192.2.	192.99	0.0):	·	,	`	19979109
57500	( 449379.	6.	3758833.	, 7.	192.0.	192.0.	e	0.0):	(	449383.5.
37588	33.7.	1	91.7.	191.7.		0.0);		,,	`	,
	( 449387.	4,	3758833.	7,	191.5,	191.5,	(	0.0);	(	449391.2,
37588	33.7,	1	91.2,	191.2,	-	0.0);		,,,	`	-
	( 449395.	1,	3758833.	7,	191.0,	191.0,	(	ð.0);	(	449399.0,
37588	33.7,	1	90.7,	190.7,		0.0);				
	( 449402.	8,	3758833.	7,	190.4,	190.4,	(	ð.0);	(	449406.7,
37588	33.7,	1	90.2,	190.2,		0.0);				
	( 449410.	6,	3758833.	7,	190.0,	190.0,	(	9.0);	(	449414.5,
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	( 449418.	3,	3758833.	7,	189.7,	189.7,	(	ð.0);	(	449422.2,
37588	33.7,	1	89.6,	_189.6,		0.0);			,	
27500	( 449426.	.1,	3/58833.	/,	189.5,	189.5,	(	0.0);	(	449429.9,
37588	33./,	1	89.3,	189.3,	100 0	0.0);			,	440427 7
27500	( 449433. 22 7	ر 8 . ۱	3/58833.	/, 100 1	189.2,	189.2,	ť	0.0);	(	449437.7,
5/500	55./, / //0//1	<u></u> Т	2750022	109.1, 7	100 0	100 0	(	2 01.	7	110115 1
37588	( 449441. 22 7	ر ر. 1	2720022.	/, 188 8	100.9,	100.9, 0 0)·	ť	5.0),	C	445445.4,
57500	( 449368.	0.	3758847	8.	193.4.	193.4.	G	a.a):	(	449371.9.
37588	47.8.	. <b>0</b> , 1'	93.2.	193.2.	,	0.0):	·	,	`	1997209
	( 449375.	8.	3758847.	8.	193.0.	193.0.	e	0.0):	(	449379.6.
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37588	47.8,	1	91.7,	191.7,	2	0.0);			•	-
	( 449399.	0,	3758847.	8,	191.5,	191.5,	e	0.0);	(	449402.8,
37588	47.8,	1	91.2,	191.2,		0.0);				
	( 449406.	7,	3758847.	8,	191.0,	191.0,	(	ð.0);	(	449410.6,

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3/5884/.8, 189.3, 189.3,	0.0);	0.0).	( 440260 0
(449445.4, 3/58847.8, 189.2	, 189.2,	0.0);	( 449368.0,
/ //0371 0 3758861 8 10/ A	101 0	0 0).	( 110375 8
3758861 8 193 8 193 8	, 194.0, 0 0)·	0.0),	( 449575.8,
( 449379 6 3758861 8 193.7	193 7	9 9).	( 449383 5
3758861.8. 193.4. 193.4.	0.0):	0.075	( 11550515)
(449387.4, 3758861.8, 193.2	. 193.2.	0.0);	( 449391.2,
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( 449395.1, 3758861.8, 192.7	, 192.7,	0.0);	(449399.0,
3758861.8, 192.4, 192.4,	0.0);		
( 449402.8, 3758861.8, 192.1	, 192.1,	0.0);	( 449406.7,
3758861.8, 191.9, 191.9,	0.0);		
(449410.6, 3758861.8, 191.6	, 191.6,	0.0);	( 449414.5,
3758861.8, 191.4, 191.4,	0.0);		
(449418.3, 3/58861.8, 191.2	, 191.2,	0.0);	(449422.2,
3/58861.8, 190.9, 190.9, ( 440426 1 2758961 8 100 7	0.0);	0.0).	( 440420 0
(449420.1, 5/58801.8, 190./ 2759961 9 100 / 100 /	, 190.7,	0.0);	( 449429.9,
( M9M33 8 3758861 8 190.2	190.2	9 9).	( 119137 7
3758861.8. 190.0. 190.0.	, <u>1</u> 50.2, 0.0):	0.0);	( ++>+>/./,
(449441.5, 3758861.8, 189.8	. 189.8.	0.0);	( 449445.4.
3758861.8, 189.7, 189.7,	0.0);		
( 449368.0, 3758875.8, 194.7	, 194.7,	0.0);	( 449371.9,
3758875.8, 194.6, 194.6,	0.0);		
(449375.8, 3758875.8, 194.4	, 194.4,	0.0);	( 449379.6,
3758875.8, 194.3, 194.3,	0.0);		
(449383.5, 3758875.8, 194.1	, 194.1,	0.0);	( 449387.4,
3758875.8, 193.8, 193.8,	0.0);		
(449391.2, 3758875.8, 193.5	, 193.5,	0.0);	(449395.1,
3/588/5.8, 193.3, 193.3,	0.0);	0.0).	( 440402 0
(449399.0, 3758875.8, 193.0)	, 193.0,	0.0);	( 449402.8,
/ 100 / 102 · 0, 152 · 0, 152 · 0, 192	192 5	0 0).	( 119110 6
3758875 8 192 2 192 2	, 152.5, 0 0)·	0.0),	( ++)+10.0;
▲ *** AFRMOD - VERSION 19191 *** *	** C:\LAKES\AERMOD	VIEW\14172	
HRA\DSLTOG\DSLTOG.ISC	*** 11/	/11/21	
*** AERMET - VERSION 16216 *** **	*,		
*** 11	:28:21		
PA	GE 7		

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

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(449414.5, 3758875.8, 192.0,	192.0,	0.0);	( 449418.3,
3758875.8, 191.7, 191.7,	0.0);		
( 449422.2, 3758875.8, 191.5,	191.5,	0.0);	( 449426.1,
3758875.8, 191.2, 191.2,	0.0);		
(449429.9, 3758875.8, 191.0,	191.0,	0.0);	( 449433.8,
3758875.8, 190.7, 190.7,	0.0);		
(449437.7, 3758875.8, 190.4,	190.4,	0.0);	( 449441.5,
3758875.8, 190.2, 190.2,	0.0);	o o)	(
(449445.4, 3758875.8, 190.1,	190.1,	0.0);	( 449368.0,
3/58889.9, 195.2, 195.2,	0.0);	0.0).	( 440275 0
(4493/1.9, 3/58889.9, 195.0,	195.0,	0.0);	(449375.8,
3/58889.9, 194.9, 194.9,	0.0);	0.0).	( 440202 E
(449379.6, 3758889.9, 194.8, 2759990 0 104 5 104 5	194.8,	0.0);	(449383.5,
5/50005.9, 194.5, 194.5,	101 2	0 0).	( 110201 2
(449507.4, 5750009.9, 194.5, 2750000 0 104.0 104.0	194.5,	0.0),	( 449591.2,
<i>( 1/</i> 0305 1 3758880 0 103 7	102 7	0 0).	( 110300 0
3758889 9 103 5 103 5	۲۶۶.7, ۵ ۵۱۰	0.0),	( 449599.0,
( 449402 8 3758889 9 193.2	193 2	9 9).	( 449406 7
3758889 9 193 0 193 0	9 9)·	0.0/,	( ++)+00.73
(449410.6, 3758889.9, 192.7,	192.7.	0.0):	( 449414.5.
3758889.9. 192.5. 192.5.	0.0):	0.075	(
(449418.3, 3758889.9, 192.2,	192.2.	0.0);	( 449422.2,
3758889.9, 191.9, 191.9,	0.0);		
( 449426.1, 3758889.9, 191.7,	191.7,	0.0);	( 449429.9,
3758889.9, 191.4, 191.4,	0.0);	,,,	
(449433.8, 3758889.9, 191.2,	191.2,	0.0);	(449437.7,
3758889.9, 190.9, 190.9,	0.0);		
(449441.5, 3758889.9, 190.7,	190.7,	0.0);	( 449445.4,
3758889.9, 190.6, 190.6,	0.0);		
(449368.0, 3758903.9, 195.8,	195.8,	0.0);	( 449371.9,
3758903.9, 195.7, 195.7,	0.0);		
( 449375.8, 3758903.9, 195.6,	195.6,	0.0);	( 449379.6,
3758903.9, 195.5, 195.5,	0.0);		
(449383.5, 3758903.9, 195.2,	195.2,	0.0);	( 449387.4,
3758903.9, 195.0, 195.0,	0.0);		
(449391.2, 3758903.9, 194.7,	194.7,	0.0);	( 449395.1,
3758903.9, 194.5, 194.5,	0.0);	o o)	<i>(</i>
(449399.0, 3758903.9, 194.2,	194.2,	0.0);	(449402.8,
3/58903.9, 194.0, 194.0,	0.0);	0.0	(
(449406./, 3/58903.9, 193./,	193./,	0.0);	( 449410.6,
3/30/3.9, 193.4, 193.4, ( 40/414 E 2750022 0 102.1	102 1	0 0).	( 440410 2
(449414.0, 5750905.9, 193.1, 3752002 0 100 0 100 0	, ۲۰ <i>۵</i> ۲۰	0.0),	( 449410.3,
رة. בשלטבוב ( 192.0 , 192.0 ) ( 100 - 275000 0 - 100 - 6	ر ( U.U ) 102 <i>6</i>	0 0).	( 110176 1
(449422.2, 5/30903.9, 192.0,	נסיקב	0.0),	( 449420.L,

3758903.9,	192.3,	192.3,	0.0);		
( 449429.9	9, 3758903.9	, 192.0	, 192.0,	0.0);	( 449433.8,
3758903.9,	191.7,	195.0,	0.0);		
( 449437.7	7, 3758903.9	, 191.4	, 195.0,	0.0);	( 449441.5,
3758903.9,	191.2,	191.2,	0.0);		
( 449445.4	1, 3758903.9	, 191.1	, 191.1,	0.0);	( 449368.0,
3758918.0,	196.6,	196.6,	0.0);		
( 449371.9	9, 3758918.0	, 196.5	, 196.5,	0.0);	( 449375.8,
3758918.0,	196.5,	196.5,	0.0);		
( 449379.6	5, 3758918.0	, 196.4	, 196.4,	0.0);	( 449383.5,
3758918.0,	196.2,	196.2,	0.0);		
( 449387.4	1, 3758918.0	, 195.9	, 195.9,	0.0);	( 449391.2,
3758918.0,	195.7,	195.7,	0.0);		
( 449395.3	L, 3758918.0	, 195.4	, 195.4,	0.0);	( 449399.0,
3758918.0,	195.1,	195.1,	0.0);		
( 449402.8	3, 3758918.0	, 194.9	, 194.9,	0.0);	( 449406.7,
3758918.0,	194.6,	194.6,	0.0);		
( 449410.6	5, 3758918.0	, 194.3	, 194.3,	0.0);	( 449414.5,
3758918.0,	194.0,	195.0,	0.0);		
( 449418.3	3, 3758918.0	, 193.6	, 195.0,	0.0);	(449422.2,
3758918.0,	193.3,	195.0,	0.0);		
( 449426.2	L, 3758918.0	<b>192.9</b>	, 195.0,	0.0);	( 449429.9,
3/58918.0,	192.6,	195.0,	0.0);	0.0	(
( 449433.8	3, 3/58918.0	192.2	, 195.0,	0.0);	( 449437.7,
3/58918.0,	191.9,	195.0,	0.0);	0.0).	
( 449441.:	, 3/58918.0 101 F	101 F	, 195.0,	0.0);	( 449445.4,
( 440269 (	191.), 2750000 A	191.5,	107.2	0 0).	( 440271 0
2750022 0	107 2	107 C	, 197.2, 0.0).	0.0),	( 4495/1.9,
2/20922.0, ( //0275 (	19/.2, 2750022 0	197.2, 107.2	ر <i>ا</i> ن. ال 107 ک	0 0).	( 110270 6
2750022 0	۲۵۶۵۵۵٬۵۵ م ۱۵۶ ۵	197.2 197.2	, 197.2, 0.0).	0.0),	( 4495/9.0,
, ۵٫۵۵۶۵۷ ) ۱ ۸۸۵۵۵۶ )	197.2, 5 3758032 0	197.2,	196.9	0 0).	( 110387 1
3758932 0	196 7	196 7	, 150.5, 0 0)·	0.0),	( ++))0/.+,
/ //Q3Q1 <sup>^</sup>	190.7, 2758932 0	190.7, 196 /	196 /	9 9).	( 119395 1
3758932 0	196 2	196 2	, 190.4, 0 0)·	0.0),	( ++)))).1,
( 449399 (	, 3758932 A	195.2,	195 9	9 9).	( 449402 8
3758932.0.	195.6.	195.6.	, <u>1</u> ,2,5,5, , (, (, (, (, (, (, (, (, (, (, (, (, (,	0.075	( 115 102.0)
( 449406.)	7. 3758932.0	195.4	. 195.4.	0.0):	( 449410.6.
3758932.0.	195.1.	195.1.	0.0):	0.075	( 11912010)
( 449414.'	5. 3758932.0	194.7	. 194.7.	0.0):	( 449418.3.
3758932.0.	194.3.	194.3.	0.0):		(
( 449422.2	2, 3758932.0	. 193.9	, 193.9,	0.0);	( 449426.1,
3758932.0.	193.5.	193.5.	0.0);		<b>(</b> ,
( 449429.9	9, 3758932.0	, Í193.1	, 193.1.	0.0);	( 449433.8.
3758932.0,	192.8,	192.8,	0.0);		
▲ *** AERMOD -	VERSION 19	)191 *** *	** C:\LAKES\AERMO	O VIEW\14172	
HRA\DSLTOG\DSL <sup>-</sup>	rog.ISC		*** 11	./11/21	
*** AERMET - \	/ERSION 162	16 *** **	*		
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\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*

		(X-COORD,	Y-COORD, ZELEV (METERS)	, ZHILL, ZFLAG)
(449437.7, 3758932.0,	192.4,	192.4,	0.0);	( 449441.5,
3/58932.0, 192.1, 19	2.1,	0.0);	0.0).	( 440269 0
(449445.4, 5758952.0, 3758976.0, 107.7, 10	192.0,	192.0,	0.0);	( 449368.0,
( 449371.9. 3758946.0.	197.7.	197.7.	0.0):	( 449375.8.
3758946.0, 197.7, 19	7.7.	0.0);	0.075	( 11557510)
(449379.6, 3758946.0,	197.7,	197.7,	0.0);	(449383.5,
3758946.0, 197.4, 19	7.4,	0.0);		
( 449387.4, 3758946.0,	197.1,	197.1,	0.0);	( 449391.2,
3758946.0, 196.9, 19	6.9,	0.0);		
(449395.1, 3758946.0,	196.6,	196.6,	0.0);	( 449399.0,
3758946.0, 196.4, 19	6.4,	0.0);	0.0).	( 440406 7
(449402.8, 3758946.0,	196.1,	196.1,	0.0);	( 449406.7,
3/58940.0, 195.8, 19 ( 440410 c 575804c 0	۵.۵, ۱۵۶ ۶	0.0); 105 5	0 0).	( 110111 E
(449410.0, 5758940.0, 3758946.0, 195.2, 19	195.5, 5 7	195.5,	0.0),	( 449414.5,
( 449418 3 3758946 A	194 8	194 8	9 9).	( 449422 2
3758946.0. 194.4. 19	4.4.	0.0):	0.0/,	( ++)+22.2,
(449426.1, 3758946.0,	194.0.	196.0,	0.0);	( 449429.9.
3758946.0, 193.6, 19	6.0,	0.0);	,,	( ···· )
( 449433.8, 3758946.0,	193.2,	196.0,	0.0);	( 449437.7,
3758946.0, 192.8, 19	6.0,	0.0);		
( 449441.5, 3758946.0,	192.5,	196.0,	0.0);	( 449445.4,
3758946.0, 192.3, 19	2.3,	0.0);		
( 449368.0, 3758960.1,	198.0,	198.0,	0.0);	( 449371.9,
3758960.1, 198.0, 19	8.0,	0.0);		
(449375.8, 3758960.1,	198.0,	198.0,	0.0);	( 449379.6,
3758960.1, 198.0, 19	8.0,	0.0);	0.0	(
(449383.5, 3758960.1,	197.8,	197.8,	0.0);	( 449387.4,
3/58960.1, 197.5, 19	/.5,	0.0);	0 0).	( 440205 1
(449391.2, 3738900.1, 3758960.1, 107.0, 10	197.5, 7 0	197.5,	0.0);	( 449395.1,
( 449399 0 3758960 1	196.8	196.8	9 9).	( 449402 8
3758960.1. 196.5. 19	6.5.	0.0):	0.0/,	( 440402.0)
(449406.7, 3758960.1,	196.3.	196.3.	0.0);	( 449410.6.
3758960.1, 196.0, 19	6.0,	0.0);	,,	(
( 449414.5, 3758960.1,	195.6,	195.6,	0.0);	( 449418.3,
3758960.1, 195.2, 19	5.2,	0.0);		
( 449422.2, 3758960.1,	194.9,	194.9,	0.0);	( 449426.1,
3758960.1, 194.5, 19	4.5,	0.0);		
( 449429.9, 3758960.1,	194.1,	194.1,	0.0);	( 449433.8,
3758960.1, 193.7, 19	3.7,	0.0);		
( 449437.7, 3758960.1,	193.3,	193.3,	0.0);	( 449441.5,

3758960.1,	193.0,	193.0,	0.0);		
( 449445.	4, 3758960.3	1, 192.7,	192.7,	0.0);	( 449368.0,
3758974.1,	198.0,	198.0,	0.0);	• -	•
( 449371.	9, 3758974.2	1, 198.0,	198.0.	0.0);	( 449375.8,
3758974.1.	198.0.	198.0.	0.0):		(
( 449379.	6. 3758974.	1. 198.0.	198.0.	0.0):	( 449383.5.
3758974 1	197 8	197 8	0 0)·	0.075	( 1990919)
/ //0327	A 375807A	1 107 6	107 6	0 0).	( 1/0301 2
275007/ 1	107 5	107 5	197.0,	0.0),	( 449591.2,
/ 440205	1 27.0	197.3,	107.2	0 0).	( 110200 0
( 449393.	1, 3/389/4	107 1	197.5,	0.0);	( 449399.0,
3/589/4.1,	197.1,	197.1,	0.0);	0.0	(
( 449402.	8, 3/589/4.1	196.9,	196.9,	0.0);	( 449406.7,
3/589/4.1,	196./,	196./,	0.0);		
( 449410.	6, 3758974.3	1, 196.5,	196.5,	0.0);	( 449414.5,
3758974.1,	196.1,	196.1,	0.0);		
( 449418.	3, 3758974.3	1, 195.7,	195.7,	0.0);	( 449422.2,
3758974.1,	195.3,	195.3,	0.0);		
( 449426.	1, 3758974.3	1, 194.9,	197.0,	0.0);	( 449429.9,
3758974.1,	194.5,	197.0,	0.0);		
( 449433.	8, 3758974.3	1, 194.2,	197.0,	0.0);	(449437.7,
3758974.1,	193.8,	197.0,	0.0);	• -	•
( 449441.	5, 3758974.2	1, 193.4,	197.0.	0.0);	( 449445.4,
3758974.1.	193.1.	197.0.	0.0):		
( 449368.	0. 3758988.3	2. 198.1.	198.1.	0.0):	( 449371.9.
3758988 2	198 1	198 1	0 0)·	0.0/3	( 11997 1199
/ 1/0275	2 3752022 <sup>2</sup>	100.1,	102 1	0 0).	( 110370 6
2750000 2	100 1	100 1	190.1, 0 0).	0.0),	( 449579.0,
ر ۵۸۵۵۰۵ / دمدمه /	170.1, E 77E0000 '	190.1, 0 107 0	107.0	0 0).	( 110207 1
( 449303.	107 0	2, 197.9, 107.0	197.9,	0.0),	( 449507.4,
3/58988.2,	197.8,	197.8,	0.0);	0.0)	( 440205 4
( 449391.	2, 3/58988.	2, 197.6,	197.6,	0.0);	( 449395.1,
3/58988.2,	197.5,	197.5,	0.0);		
( 449399.	0, 3758988.2	2, 197.4,	197.4,	0.0);	( 449402.8,
3758988.2,	197.2,	197.2,	0.0);		
( 449406.	7, 3758988.2	2, 197.1,	197.1,	0.0);	( 449410.6,
3758988.2,	196.9,	196.9,	0.0);		
( 449414.	5, 3758988.2	2, 196.5,	196.5,	0.0);	( 449418.3,
3758988.2,	196.1,	196.1,	0.0);		
( 449422.	2, 3758988.2	2, 195.8,	195.8,	0.0);	( 449426.1,
3758988.2,	195.4,	195.4,	0.0);	·	-
( 449429.	9, 3758988.2	2, 195.0,	195.0,	0.0);	( 449433.8,
3758988.2.	194.6.	194.6.	0.0);		· · · ·
( 449437.	7. 3758988.2	2. 194.2.	194.2.	0.0):	( 449441.5.
3758988 2	193 9	193 9	0 0)·	0.0/3	( 11911219)
( //0//5	1 3758088 <sup>°</sup>	103.5, $103.5$	102 5	0 0).	( 110368 0
2750002 2	100 5	100 5	۰. ۵ ۵۱۰	0.0),	( 44) 500.0,
ر ۲۰۲۵۵۶۲ ( ۱۳۵۵۶۹۸ )	170.J,	тэо.Э, 100 г	ران. 100 ت	0.0).	
( 4493/1.	2, 5/59002	د, ۲۶۵۰۵ ۱۰۵ ۲	τσο.ς,	0.0);	( 4493/5.8,
3/59002.2,	198.5,	198.5,	0.0);		
	VERSION 1	9191 *** **:		MUD VIEW\141/2	
HKA\DSLIOG\DSL	IUG.ISC		<u>ጥ ጥ ጥ</u>	11/11/21	
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ U\*

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(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG) (METERS) 198.5, (449379.6, 3759002.2, 198.5, 0.0); (449383.5, 3759002.2, 198.3, 0.0); 198.3, 198.1, (449387.4, 3759002.2, 198.1, 0.0); (449391.2,197.9, 0.0); 3759002.2, 197.9, 197.7, (449395.1, 3759002.2, 197.7, 0.0); (449399.0,197.5, 3759002.2, 197.5, 0.0); 197.3, (449406.7)(449402.8, 3759002.2, 197.3, 0.0);197.1, 0.0); 3759002.2, 197.1, 196.9, ( 449414.5, (449410.6, 3759002.2, 196.9, 0.0); 3759002.2, 196.6, 0.0); 196.6, 196.3, 0.0); (449422.2, (449418.3, 3759002.2, 196.3, 3759002.2, 196.0, 196.0, 0.0); 195.6, (449429.9, (449426.1, 3759002.2, 195.6, 0.0);195.3, 3759002.2, 195.3, 0.0);195.0, (449433.8, 3759002.2, 0.0); (449437.7, 195.0, 194.7, 0.0); 3759002.2, 194.7, 194.3, 194.3, (449441.5, 3759002.2, 0.0); (449445.4, 0.0); 3759002.2, 193.9, 193.9, 199.0, 199.0, (449368.0, 3759016.2, 0.0);(449371.9)199.0, 0.0); 3759016.2, 199.0, 199.0, (449379.6, (449375.8, 3759016.2, 199.0, 0.0); 199.0, 0.0); 3759016.2, 199.0, 198.7, (449387.4, (449383.5, 3759016.2, 198.7, 0.0); 198.5, 198.5, 0.0); 3759016.2, 198.2, (449391.2, 3759016.2, 198.2, 0.0); (449395.1, 3759016.2, 198.0, 0.0); 198.0, 197.7, (449399.0, 3759016.2, 197.7, 0.0); (449402.8)197.4, 3759016.2, 197.4, 0.0);(449406.7, 3759016.2, 197.2, 197.2, 0.0);(449410.6)196.9, 0.0); 3759016.2, 196.9, 196.7, (449414.5, 3759016.2, 0.0);(449418.3,196.7, 3759016.2, 196.4, 0.0); 196.4, 196.2, (449422.2, 3759016.2, 196.2, 0.0); (449426.1, 0.0); 3759016.2, 195.9, 195.9, (449429.9, 3759016.2, 195.6, 195.6, 0.0); (449433.8)195.4, 0.0);3759016.2, 195.4, 195.1, 195.1, (449437.7, 3759016.2, 0.0); (449441.5,195.0, 0.0);3759016.2, 194.8, 194.4, (449445.4, 3759016.2, 195.0, 0.0); (449368.0, 198.5, 0.0); 3759030.3, 198.5, 198.5, (449371.9, 3759030.3, 198.5, 0.0); (449375.8)

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*

3759030.3,	198.5,	198.5,	0.0);		
( 449379	.6, 3759030.	3, 198.5,	198.5,	0.0);	(449383.5,
3759030.3,	198.3,	198.3,	0.0);		
( 449387	.4, 3759030.	3, 198.0,	198.0,	0.0);	( 449391.2,
3759030.3,	197.8,	197.8,	0.0);		
( 449395	.1, 3759030.	3, 197.5,	197.5,	0.0);	( 449399.0,
3759030.3,	197.2,	197.2,	0.0);		
( 449402	.8, 3759030.	3, 197.0,	197.0,	0.0);	( 449406.7,
3759030.3,	196.7,	196.7,	0.0);		
( 449410	.6, 3759030.	3, 196.5,	196.5,	0.0);	( 449414.5,
3759030.3,	196.3,	196.3,	0.0);		
( 449418	.3, 3759030.	3, 196.1,	196.1,	0.0);	( 449422.2,
3759030.3,	195.9,	195.9,	0.0);		
( 449426	.1, 3759030.	3, 195.7,	195.7,	0.0);	( 449429.9,
3759030.3,	195.5,	195.5,	0.0);		<i>( , , , , , , =</i>
( 449433	.8, 3759030.	3, 195.3,	195.3,	0.0);	(449437.7,
3759030.3,	195.1,	195.1,	0.0);		<i></i> .
( 449441	.5, 3759030.	3, 194.8,	194.8,	0.0);	( 449445.4,
3759030.3,	194.4,	194.4,	0.0);		(
( 449368	.0, 3/59044.	3, 198.1,	198.1,	0.0);	( 4493/1.9,
3759044.3,	198.1,	198.1,	0.0);		(
( 449375	.8, 3/59044.	3, 198.1,	198.1,	0.0);	( 4493/9.6,
3/59044.3,	198.1,	198.1,	0.0);	0.0).	( 440207 4
( 449383	.5, 3/59044.	3, 197.8,	197.8,	0.0);	( 449387.4,
3/59044.3,	197.5,	197.5,	0.0);	0.0).	( 440205 4
( 449391	.2, 3/59044.	3, 197.3,	197.3,	0.0);	( 449395.1,
3/59044.3,	197.0,	197.0,	0.0);	0.0).	( 440402 0
( 449399	.0, 3759044.	3, 196.8,	196.8,	0.0);	( 449402.8,
3/59044.3,	196.5,	196.5,	0.0);	0.0).	( 110110 C
( 449400	./, 3/59044.	3, 196.2,	196.2,	0.0);	( 449410.6,
5/59044.5,	190.0,	190.0,	105 0	0 0).	( 440410 2
2750044 2	105 0	2, 192.9, 105 0	195.9,	0.0),	( 449410.3,
5/59044.5, ( 440422	193.0,	19 <b>5.0</b> ,	105 6	0 0).	( 110126 1
2750011 2	105 5	2, 192.0, 105 5	195.0,	0.0),	( 449420.1,
<i>Δ/Δ/2044.5</i> , <i>( //Δ/20</i>	193.3, Q 3750011	105 2 2 105 2	105 3	0 0).	( 110133 8
2750011 2	105 2	105 C	193.5,	0.0),	( 449455.0,
<i>Δ</i> /	193.2, 7 3750011	19 <b>5.</b> 2, 2 105 1	105 1	0 0).	( 110111 5
2750011 2	10/ Q	ο, 195.1, 10/ Q	195.1, 0 0)·	0.0),	( 449441.3,
( //0//5	1 3750011	194.0, 2 10/ /	10 <i>1</i> /	0 0).	
( 44944)	•+) 5755644.	J, 174.4,	ر4·4·	0.0),	
▲ *** ∆FRMOD	- VERSTON 1	9191 *** **	* (·/  <u></u> \kec/ve	RMOD VTFW\14172	
			***	11/11/21	
				,,	

HRA\DSLTOG\DSLTOG.ISC

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* \*\*\* 11:28:21

PAGE 10

RegDFAULT CONC ELEV URBAN ADJ\_U\* \*\*\* MODELOPTs:

\*\*\* METEOROLOGICAL DAYS SELECTED FOR

PROCESSING \*\*\*

```
(1=YES; 0=NO)
```

1 111 1 1 1 1 1 1 1 1111111111 1111111 11111111111 1

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

\*\*\* UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED

CATEGORIES \*\*\*

(METERS/SEC)

1.54, 3.09, 5.14, 8.23,

10.80, ▲ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 HRA\DSLTOG\DSLTOG.ISC \*\*\* 11/11/21 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* \*\*\* 11:28:21

PAGE 11 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL

DATA \*\*\*

Surface file: ..\KRAL\_V9\_ADJU\KRAL\_V9.SFC Met Version: 16216 Profile file: ..\KRAL\_V9\_ADJU\KRAL\_V9.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 3171

Upper air station no.: 3190

Name	: UNKNOWN					Name:	UNKNOWN
Year	: 2012					Year:	2012
First 24 hours of sca YR MO DY JDY HR H ALBEDO REF WS WD	lar data 3 U* W <sup>*</sup> HT REF TA	* DT/DZ HT	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN
12 01 01 1 01 -25.		- 0 -9.000	-999.	330.	77.9	0.15	2.40
1.00 2.93 55. 1	$0.1 \ 288.1 $	2.0	000	251	94 7	0 15	2 40
1.00 3.05 55. 1	$0.1 \ 287.0 \ 2$	2.0		JJ1.	04.7	0.15	2.40
12 01 01 1 03 -21. 1.00 2.45 74. 1	5 0.221 -9.000 0.1 284.2	9.000 2.0	-999.	250.	53.5	0.15	2.40
12 01 01 1 04 -22. 1.00 2.52 77. 1	0.227 -9.000 0.1 285.9	9.000 2.0	-999.	260.	56.8	0.15	2.40
12 01 01 1 05 -20. 1.00 2.30 80. 1	0.206 -9.000 0.1 285.4	9.000 2.0	-999.	225.	46.8	0.15	2.40
12 01 01 1 06 -14. 1.00 1.93 79. 1	4 0.171 -9.000	9.000 9.0	-999.	170.	32.1	0.15	2.40
12 01 01 1 07 -14. 1 00 1 96 77 1	9 0.174 -9.000	9.000	-999.	174.	33.2	0.15	2.40
12 01 01 1 08 -11.	9 0.169 -9.000	0 -9.000	-999.	167.	36.1	0.15	2.40
0.53 1.89 77. 1	9.1 288.1 2	2.0					
12 01 01 1 09 40.	4 0.234 0.359	0.006	40.	272.	-28.1	0.15	2.40
0.31 2.10 81. 1	0.1 289.2 2 5 0 246 0 742	2.0	129	293	-11 8	0 15	2 40
0.24 1.99 101. 1	0.1 296.4 2	2.0	127,	233.	11.0	0.15	2.40
12 01 01 1 11 161.	0 0.402 1.188	3 0.005	369.	611.	-35.6	0.15	2.40
0.21 3.68 78. 1	<b>0.1</b> 298.8 2	2.0	660	470	10 4	0.15	2 40
12 01 01 1 12 184. 0 20 2 89 68 1	7 0.337 1.516 3 1 300 / 3	0.005 0 0	668.	4/3.	-18.4	0.15	2.40
12 01 01 1 13 183.	9 0.310 1.809	0.005	1139.	414.	-14.2	0.15	2.40
0.20 2.57 64. 1	0.1 302.5 2	2.0					
12 01 01 1 14 156.	5 0.374 1.852	2 0.005	1434.	549.	-29.5	0.15	2.40
0.22 3.37 63. 1	0.1  303.1  2	2.0	1546	567	47 0	0 15	2 40
0 25 3 59 62 1	2 0.382 1.038 2 1 302 5 2	0.005	1540.	507.	-4/.2	0.15	2.40
12 01 01 1 16 31.	8 0.374 1.123	3 0.005	1573.	550.	-145.8	0.15	2.40
0.34 3.76 69. 1	ð.1 300.9 ž	2.0					
12 01 01 1 17 -23.	3 0.276 -9.000	9.000	-999.	354.	84.0	0.15	2.40
0.62 3.03 59. 1	<b>0.1</b> 297.5 2	2.0	000	264	F7 0	0.15	2 40
1 0 0 1 1 1 1 - 21. 1 0 0 2 5 1 5 1 1	0.229 -9.006 0 1 295 1 3	9.000 0	- 999.	264.	5/.8	0.15	2.40
12 01 01 1 19 -19.	3 0.204 -9.000		-999.	221.	45.6	0.15	2.40
1.00 2.27 79. 1	ð.1 292.0 ž	2.0					
12 01 01 1 20 -20.	7 0.218 -9.000	9.000	-999.	244.	52.2	0.15	2.40
1.00 2.42 79. 1	0.1 292.5 2	2.0		<u> </u>		<b>a</b> 4 <b>-</b>	o
12 01 01 1 21 -19.	7 0.206 -9.000	9.000	-999.	225.	46.9	0.15	2.40

1.00 2.30 95. 10.1 290.9 2.0 12 01 01 1 22 -17.6 0.190 -9.000 -9.000 -999. 199. 39.8 0.15 2.40 2.13 78. 10.1 290.4 1.00 2.0 12 01 01 1 23 -20.3 0.211 -9.000 -9.000 -999. 233. 49.0 0.15 2.40 2.35 52. 10.1 289.2 2.0 1.00 12 01 01 1 24 -16.4 0.183 -9.000 -9.000 -999. 189. 37.0 0.15 2.40 10.1 288.8 1.00 2.06 75. 2.0 First hour of profile data YR MO DY HR HEIGHT F WDIR WSPD AMB\_TMP sigmaA sigmaW sigmaV 12 01 01 01 10.1 1 55. 2.93 288.2 99.0 -99.00 -99.00 F indicates top of profile (=1) or below (=0) ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 \*\*\* HRA\DSLTOG\DSLTOG.ISC 11/11/21 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* \*\*\* 11:28:21 PAGE 12 RegDFAULT CONC ELEV URBAN ADJ\_U\* \*\*\* MODELOPTs: \*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\* INCLUDING SOURCE(S): L0000001 , L0000002 , L0000005 , L0000003 , L0000004 , L0000008 , L0000009 , L0000010 L0000006 , L0000007 , L0000012 , L0000011 , L0000013 L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000020 , L0000019 , L0000021 , L0000024 , L0000025 , L0000026 L0000022 , L0000023 ر **\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS** \*\*\* \*\* CONC OF TOGDSL IN MICROGRAMS/M\*\*3 \*\* X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) - - - - - - -449368.02 3758763.53 0.04629 (13112916) 449371.89 3758763.53 0.04378 (13062606) 449375.76 3758763.53 0.04199 (13062606) 449379.63 3758763.53 0.04034 (13062606) 449383.50 3758763.53 0.03883 (13062606) 449387.37 3758763.53 0.03743 (13062606) 449391.24 3758763.53 0.03611 (13062606) 449395.11

3758763.53	0.03489 (130626	06)		
449398.98	3758763.53	0.03374	(13062606)	449402.85
3758763.53	0.03266 (130626	06)		
449406.72	3758763.53	0.03165	(13062606)	449410.59
3758763.53	0.03069 (130626	06)		
449414.46	3758763.53	0.02980	(13062606)	449418.33
3758763.53	0.02896 (130626	06)		
449422.20	3758763.53	0.02816	(13062606)	449426.07
3758763.53	0.02740 (130626	06)		
449429.94	3758763.53	0.02668	(13062606)	449433.81
3758763.53	0.02599 (130626	06)		
449437.68	3758763.53	0.02534	(13062606)	449441.55
3758763.53	0.02472 (130626	06)		
449445.42	3758763.53	0.02412	(13062606)	449368.02
3758777.57	0.04633 (131129)	16)		
449371.89	3758777.57	0.04389	(13062606)	449375.76
3758777.57	0.04208 (130626	06)		
449379.63	3758777.57	0.04041	(13062606)	449383.50
3758777.57	0.03889 (130626	06)		
449387.37	3758777.57	0.03749	(13062606)	449391.24
3758777.57	0.03618 (130626	06)		
449395.11	3758777.57	0.03495	(13062606)	449398.98
3758777.57	0.03380 (130626	06)		
449402.85	3758777.57	0.03272	(13062606)	449406.72
3758777.57	0.03170 (130626	06)		
449410.59	3758777.57	0.03075	(13062606)	449414.46
3758777.57	0.02986 (130626	06)		
449418.33	3758777.57	0.02902	(13062606)	449422.20
3758777.57	0.02822 (130626	06)		
449426.07	3758777.57	0.02746	(13062606)	449429.94
3758777.57	0.02674 (130626	06)		
449433.81	3758777.57	0.02606	(13062606)	449437.68
3758777.57	0.02540 (130626	06)		
449441.55	3758777.57	0.02478	(13062606)	449445.42
3758777.57	0.02419 (130626	06)		
449368.02	3758791.61	0.04652	(13112916)	449371.89
3758791.61	0.04404 (130626	06)		
449375.76	3758791.61	0.04225	(13062606)	449379.63
3758791.61	0.04060 (130626	06)		
449383.50	3758791.61	0.03908	(13062606)	449387.37
3758791.61	0.03766 (130626	06)		
449391.24	3758791.61	0.03635	(13062606)	449395.11
3758791.61	0.03512 (130626	06)		
449398.98	3758791.61	0.03397	(13062606)	449402.85
3758791.61	0.03288 (130626	06)		
449406.72	3758791.61	0.03186	(13062606)	449410.59
3758791.61	0.03091 (130626	<b>06)</b>		
449414.46	3758791.61	0.03001	(13062606)	449418.33
3758791.61	0.02917 (130626	<b>06)</b>		
449422.20	3758791.61	0.02837	(13062606)	449426.07

3758791.61 0.02761 (13062606) 449429.94 3758791.61 0.02688 (13062606) 449433.81 0.02619 (13062606) 3758791.61 449437.68 3758791.61 0.02553 (13062606)449441.55 0.02491 (13062606) 3758791.61 449445.42 3758791.61 0.02431 (13062606)449368.02 3758805.65 0.04665 (13112916) 449371.89 3758805.65 0.04420 (13062606)449375.76 3758805.65 0.04242 (13062606) 449379.63 3758805.65 0.04077 (13062606)449383.50 3758805.65 0.03925 (13062606) 449387.37 3758805.65 0.03783 (13062606) 449391.24 3758805.65 0.03651 (13062606) 449395.11 3758805.65 0.03528 (13062606)449398.98 3758805.65 0.03412 (13062606) 449402.85 3758805.65 0.03303 449406.72 (13062606) 0.03201 (13062606) 3758805.65 449410.59 3758805.65 0.03105 (13062606) 449414.46 3758805.65 0.03016 (13062606) 449418.33 3758805.65 0.02931 (13062606) 449422.20 3758805.65 0.02850 (13062606) 449426.07 3758805.65 0.02774 (13062606) 449429.94 3758805.65 0.02701 (13062606) ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 HRA\DSLTOG\DSLTOG.ISC \*\*\* 11/11/21 16216 \*\*\* \*\*\* \*\*\* AERMET - VERSION \*\*\* 11:28:21 PAGE 13 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ U\*

VA	LUES FOR	SOURCE	E GROUP:	ALL	***	THE ***	1ST	HIGHEST	1-HR	AVERAGE	CONCEN	TRATION
						INCLU	DING	SOURCE(S	):	L00000	)1,	L0000002
ر	L0000003	, ا	L0000004	,	L0	000005	ر	,				
			L0000006	,	L0	000007	ر	, L000000	8	, L000000	)9,	L0000010
ر	L0000011	, ,	L0000012	,	L0	000013	ر	,				
			L0000014	,	L0	000015	ر	, L000001	6	, L000001	L7,	L0000018
ر	L0000019	ر (	L0000020	,	L0	000021	ر	,				
			L0000022	,	L0	000023	ر	, L0000024	4	, L000002	25 <b>,</b>	L0000026

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

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ر

\*\* CONC OF TOGDSL IN MICROGRAMS/M\*\*3

X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)

\*\*

3758805.65 0.02566 (13062606 3758805.65	0.02632 )	(13062606)	449437.6
0.02566 (13062606 3758805.65	)	(15062606)	449457.0
3758805.65	)		
5/50005.05	0 02502	(12062606)	11011E 1
0 02112 (13062606	0.02505	(15002000)	449449.4
3758810 60	) 0 01672	(13112016)	1/0371 8
0 0//21 /12062606	0.04072	(15112510)	449571.0
3758819 69	) 0 01252	(13062606)	119379 6
0 0/087 (13062606	0.04252	(15002000)	449579.0.
3758819 69	1 0 03935	(13062606)	119387 3 <sup>.</sup>
0 03793 (13062606	)	(19002000)	
3758819 69	, 0 03660	(13062606)	449395 1
0.03537 (13062606	)	(19002000)	
3758819,69	0.03421	(13062606)	449402 8
0,03312 (13062606	)	(19002000)	11910210
3758819,69	0.03210	(13062606)	449410.5
0,03114 (13062606	)	(19002000)	119110.9
3758819,69	0.03024	(13062606)	449418.3
0.02939 (13062606	)	(19002000)	11911019
3758819.69	0.02858	(13062606)	449426.0
0.02782 (13062606	)	(19002000)	113120.0
3758819.69	0.02709	(13062606)	449433.8
0.02639 (13062606	)	()	
3758819.69	0.02573	(13062606)	449441.5
0.02510 (13062606	)	()	
3758819.69	0.02450	(13062606)	449368.0
0.04680 (13112916	)		
3758833.73	0.04440	(13062606)	449375.7
0.04262 (13062606	)		
3758833.73	0.04097	(13062606)	449383.50
0.03944 (13062606	)		
3758833.73	0.03801	(13062606)	449391.24
0.03669 (13062606	)		
3758833.73	0.03545	(13062606)	449398.9
0.03429 (13062606	)		
3758833.73	0.03320	(13062606)	449406.7
0.03217 (13062606	)	· · · ·	
3758833.73	0.03121	(13062606)	449414.4
0.03031 (13062606	)		
3758833.73	0.02946	(13062606)	449422.2
0.02865 (13062606	)	· · · ·	
3758833.73	0.02789	(13062606)	449429.9
0.02716 (13062606	)	· · · ·	
3758833.73	0.02646	(13062606)	449437.6
0.02580 (13062606	)	. ,	
3758833.73	0.02517	(13062606)	449445.4
0.02456 (13062606	)		
3758847.77	0.04723	(13112916)	449371.89
	、	•	
	3758819.69 0.04087 (13062606 3758819.69 0.03793 (13062606 3758819.69 0.03537 (13062606 3758819.69 0.03112 (13062606 3758819.69 0.02939 (13062606 3758819.69 0.02782 (13062606 3758819.69 0.02639 (13062606 3758819.69 0.02510 (13062606 3758833.73 0.04680 (13112916 3758833.73 0.03944 (13062606 3758833.73 0.03669 (13062606 3758833.73 0.03669 (13062606 3758833.73 0.03429 (13062606 3758833.73 0.03217 (13062606 3758833.73 0.03217 (13062606 3758833.73 0.03217 (13062606 3758833.73 0.03217 (13062606 3758833.73 0.03217 (13062606 3758833.73 0.02865 (13062606 3758833.73 0.02865 (13062606 3758833.73 0.02865 (13062606 3758833.73 0.02580 (13062606	3758819.69       0.04252         0.04087       (13062606)         3758819.69       0.03935         0.03793       (13062606)         3758819.69       0.03660         0.03537       (13062606)         3758819.69       0.03421         0.0312       (13062606)         3758819.69       0.03210         0.03114       (13062606)         3758819.69       0.03024         0.02939       (13062606)         3758819.69       0.02858         0.02782       (13062606)         3758819.69       0.02709         0.02639       (13062606)         3758819.69       0.02450         0.02510       (13062606)         3758819.69       0.02450         0.04680       (13112916)         3758833.73       0.04440         0.04262       (13062606)         3758833.73       0.03801         0.03669       (13062606)         3758833.73       0.03220         0.03217       (13062606)         3758833.73       0.03220         0.03217       (13062606)         3758833.73       0.03220         0.03217       (13062606)     <	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

449375.76	3758847.77	0.04281	(13062606)	449379.63
3758847.77	0.04116 (130626	06)		
449383.50	3758847.77	0.03962	(13062606)	449387.37
3758847.77	0.03820 (130626	06)		
449391.24	3758847.77	0.03687	(13062606)	449395.11
3758847.77	0.03562 (130626	06)		
449398.98	3758847.77	0.03446	(13062606)	449402.85
3758847.77	0.03336 (130626	06)		
449406.72	3758847.77	0.03233	(13062606)	449410.59
3758847.77	0.03136 (130626	06)		
449414.46	3758847.77	0.03046	(13062606)	449418.33
3758847.77	0.02960 (130626	06)		
449422.20	3758847.77	0.02878	(13062606)	449426.07
3758847.77	0.02800 (130626	06)		
449429.94	3758847.77	0.02727	(13062606)	449433.81
3758847.77	0.02657 (130626	06)		
449437.68	3758847.77	0.02590	(13062606)	449441.55
3758847.77	0.02526 (130626	06)		
449445.42	3758847.77	0.02465	(13062606)	449368.02
3758861.81	0.04776 (131129)	16)		
449371.89	3758861.81	0.04520	(13112916)	449375.76
3758861.81	0.04299 (130626	06)		
449379.63	3758861.81	0.04134	(13062606)	449383.50
3758861.81	0.03980 (130626	06)		
449387.37	3758861.81	0.03837	(13062606)	449391.24
3758861.81	0.03704 (130626	06)		
449395.11	3758861.81	0.03580	(13062606)	449398.98
3758861.81	0.03463 (130626	06)		
449402.85	3758861.81	0.03353	(13062606)	449406.72
3758861.81	0.03250 (130626	06)		
449410.59	3758861.81	0.03152	(13062606)	449414.46
3758861.81	0.03060 (130626	06)		
★ *** AERMOD - VER	SION 19191 ***	*** C:\LAK	ES\AERMOD VIEW\14172	
HRA\DSLTOG\DSLTOG.	ISC	***	11/11/21	
*** AERMET - VERS	ION 16216 ***	***		
	***	11:28:21		

				***	THE	1ST	HIGHEST	1-HR	AVERAGE	CONCENT	RATION
LUES FOR	SOURCE	GROUP:	ALL		***						
					INCLU	DING	SOURCE(S)	:	L000000	)1,	L0000002
L0000003	ر	L0000004	ر	L00	000005	ر	,				
		L0000006	ر	L00	00007	t.	, L0000008	, ,	L00000	)9,	L0000010
L0000011	ر	L0000012	ر	L00	000013	ر	,				
		L0000014	ر	L00	000015	ر	, L0000016	, ,	L000001	L7,	L0000018
L0000019	ر	L0000020	ر	L00	000021	ر	,				
		L0000022	ر	L00	000023	ر	, L0000024	. ,	L000002	25 ,	L0000026
	LUES FOR L0000003 L0000011 L0000019	LUES FOR SOURCE L0000003 , L0000011 , L0000019 ,	LUES FOR SOURCE GROUP: L0000003 , L0000004 L0000006 L0000011 , L0000012 L0000014 L0000019 , L0000020 L0000022	LUES FOR SOURCE GROUP: ALL L0000003 , L0000004 , L0000006 , L0000011 , L0000012 , L0000014 , L0000019 , L0000020 , L0000022 ,	*** LUES FOR SOURCE GROUP: ALL L0000003 , L0000004 , L00 L0000006 , L00 L0000012 , L00 L0000014 , L00 L0000020 , L00 L0000022 , L00	*** THE LUES FOR SOURCE GROUP: ALL *** L0000003 , L000004 , L0000005 L0000006 , L0000007 L0000011 , L0000012 , L0000013 L0000014 , L0000015 L0000019 , L0000020 , L0000021 L0000022 , L0000023	*** THE 1ST LUES FOR SOURCE GROUP: ALL *** L0000003 , L000004 , L0000005 , L0000006 , L0000007 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000020 , L0000021 , L0000022 , L0000023 ,	*** THE 1ST HIGHEST LUES FOR SOURCE GROUP: ALL *** L0000003 , L000004 , L0000005 , L0000006 , L0000007 , L0000008 L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024	*** THE 1ST HIGHEST 1-HR LUES FOR SOURCE GROUP: ALL *** L0000003 , L000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 ,	*** THE       1ST HIGHEST       1-HR AVERAGE         LUES FOR SOURCE GROUP:       ALL       ***         L0000003       , L0000004       , L0000005       ,         L0000006       , L0000007       , L0000008       , L000006         L0000011       , L0000012       , L0000013       ,         L0000019       , L0000020       , L0000021       ,         L0000022       , L0000023       , L0000024       , L000002	<pre>*** THE 1ST HIGHEST 1-HR AVERAGE CONCENT LUES FOR SOURCE GROUP: ALL *** L0000003 , L000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 ,</pre>

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

## \*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\* CONC OF TOGDSL IN MICROGRAMS/M\*\*3

X-COORD (M) Y-COORD (M)	Y-COORD (M) CONC (YYMMDDHH	CONC )	(YYMMDDHH)	X-COORD (M)
449418.33	3758861.81	0.02973	(13062606)	449422.20
3758861.81	0.02891 (13062606	)		
449426.07	3758861.81	0.02813	(13062606)	449429.94
3758861.81	0.02738 (13062606	)	(12052505)	110127 60
449433.81	3/58861.81	0.02667	(13062606)	449437.68
3/58861.81	0.02600 (13062606	)	(12052505)	440445 43
449441.55	3/38801.81	0.02535	(13062606)	449445.42
10269 02	0.024/5 (15002000 2750075 05	) 0 01706	(12112016)	440271 90
3758875 85	0 01515 (13112016	0.04790 \	(13112910)	449371.89
1/00/0.00 //0375 76	3758875 85	) 0 01311	(13112916)	119379 63
3758875 85	0 04146 (13062606	)	(13112910)	449379:03
449383,50	3758875.85	0.03993	(13062606)	449387.37
3758875,85	0.03850 (13062606	)	(19002000)	19907.97
449391.24	3758875.85	, 0.03717	(13062606)	449395.11
3758875.85	0.03592 (13062606	)	(	
449398.98	3758875.85	<i>,</i> 0.03475	(13062606)	449402.85
3758875.85	0.03365 (13062606	)	<b>x</b> ,	
449406.72	3758875.85	0.03261	(13062606)	449410.59
3758875.85	0.03164 (13062606	)	· · · ·	
449414.46	3758875.85	0.03071	(13062606)	449418.33
3758875.85	0.02984 (13062606	)		
449422.20	3758875.85	0.02901	(13062606)	449426.07
3758875.85	0.02822 (13062606	)		
449429.94	3758875.85	0.02748	(13062606)	449433.81
3758875.85	0.02676 (13062606	)		
449437.68	3758875.85	0.02608	(13062606)	449441.55
3758875.85	0.02544 (13062606	)	· ·	
449445.42	3758875.85	0.02483	(13062606)	449368.02
3758889.89	0.04802 (13112916	)	(	
449371.89	3758889.89	0.04550	(13112916)	449375.76
3/58889.89	0.04321 (13112916	)	(12052505)	440202 50
4493/9.63	3/58889.89	0.04156	(13062606)	449383.50
3/58889.89	0.04003 (13062606	)	(12062606)	440201 24
449387.37	3/58889.89	0.03860	(13062606)	449391.24
3/30003.09 110005 11	0.03/20 (13062606	)	(12062606)	440200 00
449395.11 375000 00	2/20007.07 0 02/01 (12062606	20020.0 \	(12002000)	449398.98
2/20002.02 //0/02 05	2750000 00	/ 0 0227/	(12062606)	110106 72
449402.85	212000102	0.055/4	(בסמסדסמכד)	449400./2

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	3758889.89	0.03271 (13062606)	)					
	449410.59	3758889.89	0.03173	(13062606)	449414.46			
	3758889.89	0.03080 (13062606)	)					
	449418.33	3758889.89	0.02993	(13062606)	449422.20			
	3758889.89	0.02910 (13062606)	)					
	449426.07	3758889.89	0.02831	(13062606)	449429.94			
	3758889.89	0.02756 (13062606)	)					
	449433.81	3758889.89	0.02685	(13062606)	449437.68			
	3758889.89	0.02616 (13062606)	)					
	449441.55	3758889.89	0.02552	(13062606)	449445.42			
	3758889.89	0.02491 (13062606)	)					
	449368.02	3758903.93	0.04789	(13112916)	449371.89			
	3758903.93	0.04540 (13112916)	)					
	449375.76	3758903.93	0.04329	(13062606)	449379.63			
	3758903.93	0.04164 (13062606)	)					
	449383.50	3758903.93	0.04011	(13062606)	449387.37			
	3758903.93	0.03869 (13062606)	)					
	449391.24	3758903.93	0.03736	(13062606)	449395.11			
	3758903.93	0.03611 (13062606)	)					
	449398.98	3758903.93	0.03494	(13062606)	449402.85			
	3758903.93	0.03384 (13062606)	)					
	449406.72	3758903.93	0.03281	(13062606)	449410.59			
	3758903.93	0.03183 (13062606)	)					
	449414.46	3758903.93	0.03090	(13062606)	449418.33			
	3758903.93	0.03002 (13062606)	)					
	449422.20	3758903.93	0.02919	(13062606)	449426.07			
	3758903.93	0.02840 (13062606)	)	(				
	449429.94	3758903.93	0.02764	(13062606)	449433.81			
	3758903.93	0.02692 (13062606)	)	(				
	449437.68	3758903.93	0.02624	(13062606)	449441.55			
	3/58903.93	0.02559 (13062606)	)	(12052525)	440260 00			
	449445.42	3758903.93	0.02498	(13062606)	449368.02			
	3/5891/.9/	0.04//6 (13112916)	)	(12112016)	440075 76			
	4493/1.89	3/5891/.9/	0.04526	(13112916)	449375.76			
	3/5891/.9/		)	(12052505)	440202 50			
	4493/9.03	0 04017 (12062606)	0.04109	(13062606)	449383.30			
	2/2021/.9/ TC TOCOLL	2759017 07	) 0 02075	(12062606)	440201 24			
	44900/.0/	0 02742 (12062606)	0.05075	(15062606)	449591.24			
	1/0205 11	3758017 07	0 03610	(13062606)	110308 08			
	3758917 97	0 03503 (13062606)	0.05015	(19602060)	445556.56			
	>, >>>,							
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	*** AERMET - VERS	 ION 16216 *** ***	k	,, <b></b>				
		*** 11:	:28:21					

PAGE 15 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: ALL \*\*\*

				INCLUDI	NG SOURCE(S):		L0000001	ر	L0000002
L0000003	,	L0000004	ر	L0000005	ر				
		L0000006	ر	L0000007	, L0000008	ر	L0000009	ر	L0000010
L0000011	,	L0000012	ر	L0000013	ر				
		L0000014	ر	L0000015	, L0000016	ر	L0000017	ر	L0000018
L0000019	ر	L0000020	,	L0000021	ر				
		L0000022	ر	L0000023	, L0000024	ر	L0000025	,	L0000026
	L0000003 L0000011 L0000019	L0000003 , L0000011 , L0000019 ,	L0000003 , L0000004 L00000011 , L0000012 L0000019 , L0000020 L0000022	L0000003 , L0000004 , L0000006 , L0000011 , L0000012 , L0000014 , L0000020 , L0000022 ,	INCLUDI L0000003 , L000004 , L0000005 L0000006 , L0000007 L0000011 , L0000012 , L0000013 L0000014 , L0000015 L0000020 , L0000021 L0000022 , L0000023	INCLUDING SOURCE(S): L0000003 , L000004 , L0000005 , L0000006 , L0000007 , L0000008 L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 L0000020 , L0000021 , L0000022 , L0000023 , L0000024	INCLUDING SOURCE(S): L0000003 , L000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 ,	INCLUDING SOURCE(S): L000001 L0000003 , L000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025	INCLUDING SOURCE(S): L000001 , L0000003 , L000004 , L0000005 , L000006 , L000007 , L000008 , L000009 , L0000011 , L000012 , L000013 , L0000014 , L000015 , L0000016 , L0000017 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\* CONC OF TOGDSL IN MICROGRAMS/M\*\*3

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X-COORD (M) Y-COORD (M)	Y-COORD (M) CONC (YYMMDI	CONC OHH)	(YYMMDDHH)	X-COORD (M)
449402.85	3758917.97	0.03393	(13062606)	449406.72
3758917.97	0.03290 (130626	506)		
449410.59	3758917.97	0.03192	(13062606)	449414.46
3758917.97	0.03099 (130626	506)		
449418.33	3758917.97	0.03011	(13062606)	449422.20
3758917.97	0.02927 (130626	506)		
449426.07	3758917.97	0.02848	(13062606)	449429.94
3758917.97	0.02772 (130626	506)		
449433.81	3758917.97	0.02700	(13062606)	449437.68
3758917.97	0.02631 (130626	506)		
449441.55	3758917.97	0.02566	(13062606)	449445.42
3758917.97	0.02504 (130626	506)		
449368.02	3758932.01	0.04771	(13112916)	449371.89
3758932.01	0.04520 (131129	916)		
449375.76	3758932.01	0.04338	(13062606)	449379.63
3758932.01	0.04173 (130626	506)		
449383.50	3758932.01	0.04021	(13062606)	449387.37
3758932.01	0.03880 (130626	506)		
449391.24	3758932.01	0.03748	(13062606)	449395.11
3758932.01	0.03624 (130626	506)		
449398.98	3758932.01	0.03508	(13062606)	449402.85
3758932.01	0.03399 (130626	506)		
449406.72	3758932.01	0.03296	(13062606)	449410.59
3758932.01	0.03199 (130626	506)		
449414.46	3758932.01	0.03106	(13062606)	449418.33
3758932.01	0.03018 (130626	506)		
449422.20	3758932.01	0.02934	(13062606)	449426.07
3758932.01	0.02855 (130626	506)		
449429.94	3758932.01	0.02779	(13062606)	449433.81
3758932.01	0.02706 (130626	506)		

449437.68	3758932.01	0.02637	(13062606)	449441.55
3758932.01	0.02571 (13062606	)		
449445.42	3758932.01	0.02510	(13062606)	449368.02
3758946.05	0.04753 (13112916	)		
449371.89	3758946.05	0.04522	(13062606)	449375.76
3758946.05	0.04343 (13062606	)		
449379.63	3758946.05	0.04178	(13020301)	449383.50
3758946.05	0.04026 (13062606	)		
449387.37	3758946.05	0.03884	(13062606)	449391.24
3758946.05	0.03752 (13062606	)		
449395.11	3758946.05	0.03629	(13062606)	449398.98
3758946.05	0.03513 (13062606	)		
449402.85	3758946.05	0.03403	(13062606)	449406.72
3758946.05	0.03301 (13062606	)		
449410.59	3758946.05	0.03203	(13062606)	449414.46
3758946.05	0.03111 (13062606	)		
449418.33	3758946.05	0.03023	(13062606)	449422.20
3758946.05	0.02939 (13062606	)		
449426.07	3758946.05	0.02860	(13062606)	449429.94
3758946.05	0.02784 (13062606	)		
449433.81	3758946.05	0.02711	(13062606)	449437.68
3758946.05	0.02642 (13062606	)		
449441.55	3758946.05	0.02576	(13062606)	449445.42
3758946.05	0.02514 (13062606	)		
449368.02	3758960.09	0.04779	(13020301)	449371.89
3758960.09	0.04640 (13020301	)		
449375.76	3758960.09	0.04506	(13020301)	449379.63
3758960.09	0.04376 (13020301	)	<i></i>	
449383.50	3758960.09	0.04038	(13020301)	449387.37
3758960.09	0.03890 (13020301	)	(	
449391.24	3758960.09	0.03756	(13062606)	449395.11
3/58960.09	0.03632 (13062606	)	(12050505)	
449398.98	3758960.09	0.03516	(13062606)	449402.85
3/58960.09	0.0340/ (13062606	)	(12052525)	
449406./2	3/58960.09	0.03304	(13062606)	449410.59
3/58960.09	0.03207 (13062606	)	(12062606)	440440 33
449414.46	3/58960.09	0.03115	(13062606)	449418.33
3/58960.09	0.0302/ (13062606	)	(12062606)	440426 07
449422.20	3/58960.09	0.02944	(13062606)	449426.07
3/58960.09		)	(12062606)	440422 01
449429.94	3/58960.09	0.02/88	(13062606)	449433.81
3/5890.09	0.02/16 (13062606		(12062606)	
449437.08	3/58960.09	0.02646	(13062606)	449441.55
3/58960.09	0.02581 (13062606	)	(12062606)	440260 02
445445.42	2/202000000000000000000000000000000000	0.02770 0102770	(12002000)	447300.02
3/303/4.13	2759074 12		(12020201)	440275 76
4493/1.89	5/505/4.15 0 0/15/ (12020201	0.04585 \	(12020201)	4493/3./6
3/303/4.13 //0270 62	275007/ 12	) 0 01270	(12020201)	110203 60
4493/9.03	5/303/4.13 0 0/02E /13063606	0.04320 \	(12020201)	447203.20
5/ 303/4.13	0.04000 (13002000	)		

★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 HRA\DSLTOG\DSLTOG.ISC \*\*\* 11/11/21 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* \*\*\* 11:28:21

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

							***	THE	1ST	HIGHES	T 1-I	HR	AVERAGE	CONCEN	ITF	RATION
VA	LUES	FOR	SOURC	E GRO	OUP:	ALL		*** INCLU	DING	SOURCE	(S):		L000000	91,	L	_0000002
ر	L000	0003	, ا	L000	00004	ر	L0	000005	ر	,	. ,			-		
				L000	00006	ر	L0	000007	ر	, L0000	008	,	L000000	)9 <b>,</b>	L	.0000010
,	L000	0011	, .	L000	00012	,	L0	000013	ر	,						
				L000	00014	ر	L0	000015	t.	, L0000	016	ر	L000001	L7,	L	.0000018
,	L000	0019	ر (	L000	00020	ر	L0	000021	ر	,						
				L000	00022	ر	L0	000023	د	, L0000	024	,	L000002	25 <b>,</b>	L	.0000026

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

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\*\* CONC OF TOGDSL IN MICROGRAMS/M\*\*3

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X-COORD (M) Y-COORD (M)	Y-COORD (M) CONC (YYMME	CONC DDHH)	(YYMMDDHH)	X-COORD (M)
449387.37	3758974.13	0.03893	(13062606)	449391.24
3758974.13	0.03760 (16092	2620)		
449395.11	3758974.13	0.03636	(13062606)	449398.98
3758974.13	0.03520 (13062	2606)		
449402.85	3758974.13	0.03410	(13062606)	449406.72
3758974.13	0.03307 (13062	2606)		
449410.59	3758974.13	0.03210	(13062606)	449414.46
3758974.13	0.03118 (13062	2606)		
449418.33	3758974.13	0.03030	(13062606)	449422.20
3758974.13	0.02947 (13062	2606)		
449426.07	3758974.13	0.02868	(13062606)	449429.94
3758974.13	0.02792 (13062	2606)		
449433.81	3758974.13	0.02720	(13062606)	449437.68
3758974.13	0.02650 (13062	2606)		
449441.55	3758974.13	0.02584	(13062606)	449445.42
3758974.13	0.02521 (13062	2606)		
449368.02	3758988.17	0.04788	(13112916)	449371.89
3758988.17	0.04541 (13062	2606)		
449375.76	3758988.17	0.04413	(13020301)	449379.63
3758988.17	0.04293 (13020	0301)		
449383.50	3758988.17	0.04040	(13062606)	449387.37

3758988.17	0.03897 (13062606	5)		
449391.24	3758988.17	0.03763	(13062606)	449395.11
3758988.17	0.03646 (16092626	))		
449398.98	3758988.17	0.03522	(13062606)	449402.85
3758988.17	0.03413 (13062606	5)		
449406.72	3758988.17	0.03309	(13062606)	449410.59
3758988.17	0.03212 (13062606	5)		
449414.46	3758988.17	0.03120	(13062606)	449418.33
3758988.17	0.03033 (13062606	5)		
449422.20	3758988.17	0.02950	(13062606)	449426.07
3758988.17	0.02870 (13062606	5)		
449429.94	3758988.17	0.02795	(13062606)	449433.81
3758988.17	0.02722 (13062606	5)		
449437.68	3758988.17	0.02653	(13062606)	449441.55
3758988.17	0.02587 (13062606	5)		
449445.42	3758988.17	0.02524	(13062606)	449368.02
3759002.21	0.04915 (13020301	L)		
449371.89	3759002.21	0.04775	(13020301)	449375.76
3759002.21	0.04642 (13020301	L)		
449379.63	3759002.21	0.04511	(13020301)	449383.50
3759002.21	0.04176 (13020301	L)		
449387.37	3759002.21	0.04036	(13020301)	449391.24
3759002.21	0.03766 (13062606	5)		
449395.11	3759002.21	0.03642	(13062606)	449398.98
3759002.21	0.03536 (16092620	<b>)</b> )		
449402.85	3759002.21	0.03415	(13062606)	449406.72
3759002.21	0.03312 (13062606	5)	(	
449410.59	3759002.21	0.03214	(13062606)	449414.46
3759002.21	0.03122 (13062606	5)		
449418.33	3759002.21	0.03035	(13062606)	449422.20
3759002.21	0.02951 (13062606	5)	(	
449426.07	3759002.21	0.02872	(13062606)	449429.94
3759002.21	0.02797 (13062606	5)	(	
449433.81	3759002.21	0.02724	(13062606)	449437.68
3/59002.21	0.02656 (13062606	) 	(12252525)	
449441.55	3/59002.21	0.02590	(13062606)	449445.42
3/59002.21	0.02526 (13062606	») • • • • • • • •	(12020201)	440074 00
449368.02	3/59016.25	0.04939	(13020301)	4493/1.89
3/59016.25	0.04803 (1302030)		(12020201)	440270 62
4493/5./6	3/59016.25	0.04673	(13020301)	4493/9.63
3/59016.25	0.04547 (1302030)	.)	(12020201)	440207 27
449383.50	3/59010.25	0.04379	(13020301)	449387.37
3/59010.25	0.04048 (1302030)		(12020201)	440205 11
449591.24	5/59010.25 0 02644 (12062606	20.02902	(13020301)	449393.11
110200 00	2750016 25	0 02520	(16002620)	440402 95
449090.98 2750016 25	0 03134 (16003630 2/270407630	8755919 1	(10932020)	443402.00
77 AVU104 10108 20	3750016 25	1) 0 02211	(13062606)	110110 50
3759016 25	0 03216 (13062604	5.05514	(1)002000/	++,+10,)3
ΛΛΩΛ1Λ ΛΔ	3750016 25	'/ 0 02122	(13062606)	110110 22
	J/JJUIU.ZJ	0.07127	(1002000)	

3759016.25 0.03036 (13062606) 449422.20 3759016.25 0.02952 (13062606) 449426.07 0.02873 (13062606) 3759016.25 449429.94 3759016.25 0.02798 (13062606) 449433.81 0.02726 (13062606) 3759016.25 449437.68 3759016.25 0.02657 (13062606) 449441.55 0.02591 (13062606) 3759016.25 3759016.25 0.02528 (13062606) 449445.42 449368.02 0.04817 (13112916) 3759030.29 ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 \*\*\* 11/11/21 HRA\DSLTOG\DSLTOG.ISC \*\*\* \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* 11:28:21 PAGE 17 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ U\* \*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION \*\*\* VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): L0000001 , L0000002 , L000003 , L0000004 , L0000005 , L0000007 L0000006 L0000008 , L0000009 . L0000010 , L0000011 , L0000012 , L0000013 ر , L0000017 L0000014 , L0000015 L0000016 , L0000018 ر , L0000019 , L0000021 , L0000020 L0000022 , L0000024 , L0000025 , L0000026 , L0000023 ر **\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS** \*\*\* \*\* CONC OF TOGDSL IN MICROGRAMS/M\*\*3 \*\* Y-COORD (M) X-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) 449371.89 3759030.29 0.04651 (13020301) 449375.76 3759030.29 0.04525 (13020301) 0.04404 (13020301) 449379.63 3759030.29 449383.50 0.04073 (13020301) 3759030.29 449387.37 3759030.29 0.03947 (16092620) 449391.24

3759030.29 0.03772 (13062606) 449395.11 3759030.29 0.03647 (13062606) 449398.98 0.03530 (13062606) 3759030.29 0.03419 (13062606) 3759030.29 449406.72 449402.85 3759030.29 0.03315 (13062606) 3759030.29 0.03217 (13062606) 449414.46 449410.59 3759030.29 0.03124 (13062606)

449418.33	3759030.29	0.03036	(13062606)		449422.20
3759030.29	0.02952 (13062606	5)	(12050505)		
449426.07	3759030.29	0.02873	(13062606)		449429.94
3759030.29	0.02797 (13062606	5)	(12052505)		440407 60
449433.81	3/59030.29	0.02725	(13062606)		449437.68
3759030.29	0.0265/ (13062606	) 0.02501	(12052505)		440445 42
449441.55	3/59030.29	0.02591	(13062606)		449445.42
3/59030.29		0,0.00	(12112016)		440271 00
449308.02	3/39044.33	0.04856	(13112916)		449371.89
5/59044.55 1/0275 76	2750011 22	0 01270	(12062606)		110270 62
2750011 22	0 01210 (1206260)	0.04576	(13002000)		449579.05
5/59044.55 1/0202 EQ		0 04055	(12062606)		110207 27
2750011 22	0 03010 (1306260)	5)	(13002000)		449307.37
7759044.55 1/10301 2/	375901/ 33	0 03775	(13062606)		119395 11
3759011 33	0 03649 (1306260)	5)	(19002000)		449999.11
1/0308 08	3759044 33	, 0 03531	(13062606)		119102 85
3759044 33	0 03420 (1306260)	5)	(19002000)		++)+02.05
449406.72	3759044,33	0.03315	(13062606)		449410.59
3759044,33	0.03216 (13062606	5)	(19002000)		++>+10.55
449414,46	3759044,33	0.03123	(13062606)		449418.33
3759044.33	0.03034 (13062606	5)	(19002000)		119 120.99
449422.20	3759044.33	0.02951	(13062606)		449426.07
3759044.33	0.02871 (13062606	5)	(19002000)		119 120107
449429.94	3759044.33	0.02796	(13062606)		449433.81
3759044.33	0.02724 (13062606	5)	(		
449437.68	3759044.33	0.02655	(13062606)		449441.55
3759044.33	0.02589 (13062606	5)	(		
449445.42	3759044.33	0.02526	(13062606)		
			(		
★ *** AERMOD - VER	SION 19191 ***	*** C:\LAK	ES\AERMOD VIE	W\14172	
HRA\DSLTOG\DSLTOG.	ISC	***	11/11/2	21	
*** AERMET - VERS	ION 16216 *** **	**			
	*** 11	L:28:21			
	PA	AGE 18			
*** MODELOPTs:	RegDFAULT CONC E	ELEV URBAN	N ADJ_U*		
	*** THE	E 1ST HIG	GHEST 8-HR A	VERAGE CONCEN	TRATION
VALUES FOR SOURCE	GROUP: ALL **	**			
	INC	LUDING SOU	JRCE(S):	L0000001 ,	L0000002
,L000003,L	0000004 , L00000	)05 <b>,</b>			
L	0000006 , L00006	907 , L(	, 8000008	L0000009 ,	L0000010
,L0000011 ,L	0000012 , L00000	)13 ,			
L	0000014 , L00000	)15 ,L(	, 0000016	L0000017 ,	L0000018
,L0000019 ,L	0000020 ,L00000	)21 ,			
L	0000022 , L00000	923 , LG	, 0000024	L0000025 ,	L0000026

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\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

## \*\* CONC OF TOGDSL IN MICROGRAMS/M\*\*3

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X-COORD (M) Y-COORD (M)	Y-COORD (M) CONC (YYMMDD	CONC HH)	(YYMMDDHH)	X-COORD (M)
449368.02	3758763.53	0.03890c	(12121708)	449371.89
3758763.53	0.03725c (121217	08)	()	
449375.76	3758763.53	0.03573c	(12121708)	449379.63
3758763.53	0.03433c (121217	08)	· · · ·	
449383.50	3758763.53	0.03304c	(12121708)	449387.37
3758763.53	0.03185c (121217	08)		
449391.24	3758763.53	0.03073c	(12121708)	449395.11
3758763.53	0.02969c (121217	08)		
449398.98	3758763.53	0.02871c	(12121708)	449402.85
3758763.53	0.02779c (121217	08)		
449406.72	3758763.53	0.02693c	(12121708)	449410.59
3758763.53	0.02612c (121217	08)		
449414.46	3758763.53	0.02536c	(12121708)	449418.33
3758763.53	0.02464c (121217	08)	(40404700)	
449422.20	3/58/63.53	0.023960	(12121/08)	449426.07
3/58/63.53	0.02332c (12121/	08)	(10101700)	440422 04
	3/58/63.53	0.022/00	(12121708)	449433.81
3/38/03.33	0.022120 (12121/	0 0 0 1 5 6 6	(10101700)	440441 55
44343/.00 2750762 52	2/20/02.22 0 02102c /121217	0.021200	(12121708)	449441.55
دد.ده/هد/د ۸۸۹۸۸۶ ۸۶	3758763 53	0 0 0 0 0 5 3 0	(12121708)	119368 02
449449.42 3758777 57	0 03001c (101017	0.02055C	(12121/08)	449508.02
449371 89	3758777 57	00) 0 03734c	(12121708)	449375 76
3758777.57	0.03580c (121217	0105754C 08)	(12121/00)	
449379.63	3758777.57	0.034380	(12121708)	449383.50
3758777.57	0.03309c (121217	08)	()	
449387.37	3758777.57	0.03189c	(12121708)	449391.24
3758777.57	0.03078c (121217	08)	<b>`</b>	
449395.11	3758777.57	0.02973c	(12121708)	449398.98
3758777.57	0.02876c (121217	08)		
449402.85	3758777.57	0.02784c	(12121708)	449406.72
3758777.57	0.02697c (121217	08)		
449410.59	3758777.57	0.02616c	(12121708)	449414.46
3758777.57	0.02541c (121217	08)		
449418.33	3758777.57	0.024690	(12121708)	449422.20
3758777.57	0.02401c (121217	08)		
449426.07	3758777.57	0.02337c	(12121708)	449429.94
3758777.57	0.02275c (121217	88)	(40404700)	
449433.81	3/58//7.57	0.02217c	(12121708)	449437.68
3/58///.5/	0.02161C (121217	(80	(40404700)	
449441.55	3/58///.5/	0.021080	(12121/08)	449445.42

\*\*\*

	3758777.57	0.02059c (12121708)	
	449368.02	3758791.61 0.03913c (12121708)	449371.89
	3758791.61	0.03748c (12121708)	
	449375.76	3758791.61 0.03595c (12121708)	449379.63
	3758791.61	0.03454c (12121708)	
	449383.50	3758791.61 0.03325c (12121708)	449387.37
	3758791.61	0.03205c (12121708)	
	449391.24	3758791.61 0.03093c (12121708)	449395.11
	3758791.61	0.02988c (12121708)	
	449398.98	3758791.61 0.02890c (12121708)	449402.85
	3758791.61	0.02798c (12121708)	
	449406.72	3758791.61 0.02711c (12121708)	449410.59
	3758791.61	0.02630c (12121708)	
	449414.46	3758791.61 0.02554c (12121708)	449418.33
	3758791.61	0.02482c (12121708)	
	449422.20	3758791.61 0.02414c (12121708)	449426.07
	3758791.61	0.02349c (12121708)	
	449429.94	3758791.61 0.02287c (12121708)	449433.81
	3758791.61	0.02229c (12121708)	
	449437.68	3758791.61 0.02173c (12121708)	449441.55
	3758791.61	0.02119c (12121708)	
	449445.42	3758791.61 0.02069c (12121708)	449368.02
	3758805.65	0.03926c (12121708)	
	449371.89	3758805.65 0.03761c (12121708)	449375.76
	3758805.65	0.03610c (12121708)	
	449379.63	3758805.65 0.03470c (12121708)	449383.50
	3758805.65	0.03340c (12121708)	
	449387.37	3758805.65 0.03219c (12121708)	449391.24
	3758805.65	0.03107c (12121708)	
	449395.11	3758805.65 0.03002c (12121708)	449398.98
	3758805.65	0.02904c (12121708)	
	449402.85	3758805.65 0.02811c (12121708)	449406.72
	3758805.65	0.02724c (12121708)	
	449410.59	3758805.65 0.02642c (12121708)	449414.46
	3/58805.65	0.02566c (12121/08)	
	449418.33	3/58805.65 0.02494C (12121/08)	449422.20
	3/58805.65	0.02425c (12121/08)	
	449426.07	3/58805.65 0.02360C (12121/08)	449429.94
		0.02299C (12121/08)	
1		SION 19191 *** *** C:\LAKES\AERMOD VIEW\141/2	
ł		15C 16216 *** ***	
	AEKMEI - VERS.	LON Τρςτρ τττ τττ *** 11.30.31	
		11:20:21	
		DACE 10	
	MUDELUPIS:	VERDLAOFI CONC EFEA OVDAN ADJO.	

\*\*\* THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL
 \*\*\*
INCLUDING SOURCE(S): L0000001 , L0000002

, L00000	03 , L0000004 L0000006	, L0000005 , L0000007	, , L0000008	, L0000009	, L0000010
, L00000	11 , L0000012 L0000014	, L0000013 , L0000015	, , L0000016	, L0000017	, L0000018
, L00000	19 , L0000020 L0000022	, L0000021 , L0000023	, , L0000024	, L0000025	, L0000026

## \*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

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\*\* CONC OF TOGDSL IN MICROGRAMS/M\*\*3

X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) - - - - - -- - - - - -- - - - - - -449433.81 3758805.65 0.02240c (12121708) 449437.68 3758805.65 0.02183c (12121708) 449441.55 3758805.65 0.02130c (12121708) 449445.42 3758805.65 0.02078c (12121708) 449368.02 3758819.69 0.03935c (12121708) 449371.89 3758819.69 0.03770c (12121708) 449375.76 3758819.69 0.03618c (12121708) 449379.63 3758819.69 0.03478c (12121708) 449383.50 3758819.69 0.03348c (12121708) 449387.37 3758819.69 0.03228c (12121708) 449391.24 3758819.69 0.03115c (12121708) 449395.11 3758819.69 0.03010c (12121708) 449398.98 3758819.69 0.02911c (12121708) 449402.85 3758819.69 0.02818c (12121708) 449406.72 3758819.69 0.02731c (12121708) 449410.59 3758819.69 0.02649c (12121708) 449414.46 3758819.69 0.02573c (12121708) 449418.33 3758819.69 0.02501c (12121708) 0.02432c (12121708) 449422.20 3758819.69 449426.07 3758819.69 0.02367c (12121708) 449429.94 3758819.69 0.02305c (12121708) 449433.81 3758819.69 0.02246c (12121708) 449437.68 3758819.69 0.02190c (12121708) 449441.55 3758819.69 0.02136c (12121708) 449445.42 3758819.69 0.02085c (12121708) 449368.02 3758833.73 0.03944c (12121708) 449371.89 3758833.73 0.03778c (12121708) 449375.76 3758833.73 0.03626c (12121708) 449379.63 3758833.73 0.03486c (12121708) 449383.50 3758833.73 0.03356c (12121708) 0.03235c (12121708) 449387.37 3758833.73 449391.24 3758833.73 0.03122c (12121708)

449395.11	3758833.73	0.03016c	(12121708)	449398.98
3758833.73	0.02918c (12121708)	)		
449402.85	3758833.73	0.02825c	(12121708)	449406.72
3758833.73	0.02737c (12121708)	)		
449410.59	3758833.73	0.02655c	(12121708)	449414.46
3758833.73	0.02579c (12121708)	)		
449418.33	3758833.73	0.02507c	(12121708)	449422.20
3758833.73	0.02438c (12121708)	)		
449426.07	3758833.73	0.02373c	(12121708)	449429.94
3758833.73	0.02311c (12121708)	)		
449433.81	3758833.73	0.02252c	(12121708)	449437.68
3758833.73	0.02195c (12121708)	)	(	
449441.55	3758833.73	0.02142c	(12121708)	449445.42
3/58833./3	0.02090c (12121/08)	)	(12121702)	440074 00
449368.02	3/5884/.//	0.039600	(12121708)	4493/1.89
3/5884/.//	0.03/956 (12121/08)	)	(12121700)	440070 60
4493/5./6	3/5884/.//	0.03643C	(12121708)	4493/9.63
3/5884/.//	0.03503C (12121/08)		(12121700)	440207 27
449383.50	3/5884/.//	0.033720	(12121708)	449387.37
3/3004/.//	0.032510 (12121/08)	0 021200	(10101700)	11020E 11
449391.24 2750017 77	5/5884/.// 0.05055c (15151700)	0.031380	(12121708)	449595.11
5/5004/.// 1/0200 00	2758847 77	0 02022c	(10101700)	110102 95
3758847 77	0 02839c (12121708)	0.029520	(12121/08)	449402.03
<i>11</i> 9106 72	3758847 77	, 0 02752c	(12121708)	119110 59
3758847,77	0.02669c (12121708)	0.02/520	(12121/00)	
449414.46	3758847.77	, 0.02592c	(12121708)	449418.33
3758847.77	0.02519c (12121708)	)	(	
449422.20	3758847.77	0.02449c	(12121708)	449426.07
3758847.77	0.02383c (12121708)	)		
449429.94	3758847.77	0.02320c	(12121708)	449433.81
3758847.77	0.02261c (12121708)	)		
449437.68	3758847.77	0.02204c	(12121708)	449441.55
3758847.77	0.02150c (12121708)	)		
449445.42	3758847.77	0.02098c	(12121708)	449368.02
3758861.81	0.03975c (12121708)	)		
449371.89	3758861.81	0.03810c	(12121708)	449375.76
3758861.81	0.03659c (12121708)	)		
449379.63	3758861.81	0.03519c	(12121708)	449383.50
3758861.81	0.03388c (12121708)	)		
449387.37	3758861.81	0.03266c	(12121708)	449391.24
3758861.81	0.03153c (12121708)	)		
449395.11	3758861.81	0.03047c	(12121708)	449398.98
3758861.81	0.02948c (12121708)	)	/	
449402.85	3758861.81	0.02854c	(12121708)	449406.72
3/58861.81	0.02766c (12121708)	)	(42424700)	
449410.59	3/58861.81	0.02683c	(12121708)	449414.46
3/58861.81	0.02605C (12121/08)	) ** C.\		
	ZTON TATAT JUL 4,	۳۳ C:\LAK	ES\AEKMUD VIEW\141/2	
HKA USLIUG USLIUG.	120	ጥ ጥ ጥ	11/11/21	

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* \*\*\* 11:28:21 PAGE 20 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\* \*\*\* THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION \*\*\* VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): L0000001 , L0000002 , L0000005 , L000003 , L0000004 ر , L0000007 , L0000008 , L0000009 L0000006 , L0000010 , L0000012 , L0000013 , L0000011 ر , L0000016 L0000014 , L0000015 , L0000017 , L0000018 , L0000019 , L0000021 , L0000020 ر , L0000024 , L0000025 L0000022 , L0000023 , L0000026 ر \*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\* \*\* CONC OF TOGDSL IN MICROGRAMS/M\*\*3 \*\* X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)

3758861.81	0.02531c	(12121708)	449422.20
0.02461c (12121708	;)		
3758861.81	0.02394c	(12121708)	449429.94
0.02330c (12121708	;)		
3758861.81	0.02270c	(12121708)	449437.68
0.02212c (12121708	5)		
3758861.81	0.02158c	(12121708)	449445.42
0.02106c (12121708	5)		
3758875.85	0.03985c	(12121708)	449371.89
0.03821c (12121708	5)		
3758875.85	0.03669c	(12121708)	449379.63
0.03529c (12121708	;)		
3758875.85	0.03399c	(12121708)	449387.37
0.03277c (12121708	5)		
3758875.85	0.03164c	(12121708)	449395.11
0.03058c (12121708	5)		
3758875.85	0.02958c	(12121708)	449402.85
0.02864c (12121708	5)		
3758875.85	0.02776c	(12121708)	449410.59
0.02693c (12121708	5)		
3758875.85	0.02614c	(12121708)	449418.33
0.02540c (12121708	5)		
3758875.85	0.02470c	(12121708)	449426.07
	3758861.81 0.02461c (12121708 3758861.81 0.02330c (12121708 3758861.81 0.02212c (12121708 3758861.81 0.02106c (12121708 3758875.85 0.03821c (12121708 3758875.85 0.03277c (12121708 3758875.85 0.03058c (12121708 3758875.85 0.02864c (12121708 3758875.85 0.02864c (12121708 3758875.85 0.02864c (12121708 3758875.85 0.02693c (12121708 3758875.85 0.02540c (12121708 3758875.85	3758861.81       0.02531c         0.02461c       (12121708)         3758861.81       0.02394c         0.02330c       (12121708)         3758861.81       0.02270c         0.02212c       (12121708)         3758861.81       0.02158c         0.02106c       (12121708)         3758875.85       0.03985c         0.03821c       (12121708)         3758875.85       0.03669c         0.03529c       (12121708)         3758875.85       0.03399c         0.03277c       (12121708)         3758875.85       0.03164c         0.03058c       (12121708)         3758875.85       0.02958c         0.02864c       (12121708)         3758875.85       0.02958c         0.02864c       (12121708)         3758875.85       0.02776c         0.02693c       (12121708)         3758875.85       0.02614c         0.02540c       (12121708)         3758875.85       0.02614c         0.02540c       (12121708)         3758875.85       0.02470c	3758861.81       0.02531c (12121708)         0.02461c (12121708)         3758861.81       0.02394c (12121708)         0.02330c (12121708)         3758861.81       0.02270c (12121708)         0.02212c (12121708)         3758861.81       0.02158c (12121708)         0.02106c (12121708)         3758875.85       0.03985c (12121708)         0.03821c (12121708)         3758875.85       0.03669c (12121708)         0.03529c (12121708)         3758875.85       0.03399c (12121708)         0.03277c (12121708)         3758875.85       0.03164c (12121708)         0.03058c (12121708)         3758875.85       0.02958c (12121708)         0.02864c (12121708)         3758875.85       0.02776c (12121708)         0.02864c (12121708)         3758875.85       0.02614c (12121708)         0.02693c (12121708)         3758875.85       0.02614c (12121708)         0.02540c (12121708)         3758875.85       0.02614c (12121708)         0.02540c (12121708)         3758875.85       0.02614c (12121708)

3758875.85	0.02402c (12121708	)		
449429.94	3758875.85	0.02339c	(12121708)	449433.81
3758875.85	0.02278c (12121708	)		
449437.68	3758875.85	0.02220c	(12121708)	449441.55
3758875.85	0.02165c (12121708	)		
449445.42	3758875.85	0.02113c	(12121708)	449368.02
3758889.89	0.03994c (12121708	)		
449371.89	3758889.89	0.03829c	(12121708)	449375.76
3758889.89	0.03677c (12121708	)		
449379.63	3758889.89	0.03537c	(12121708)	449383.50
3758889.89	0.03407c (12121708	)		
449387.37	3758889.89	0.03286c	(12121708)	449391.24
3758889.89	0.03172c (12121708	)		
449395.11	3758889.89	0.03066c	(12121708)	449398.98
3758889.89	0.02966c (12121708	)		
449402.85	3758889.89	0.02873c	(12121708)	449406.72
3758889.89	0.02784c (12121708	)		
449410.59	3758889.89	0.02701c	(12121708)	449414.46
3758889.89	0.02622c (12121708	)		
449418.33	3758889.89	0.02548c	(12121708)	449422.20
3758889.89	0.02477c (12121708	)		
449426.07	3758889.89	0.02410c	(12121708)	449429.94
3758889.89	0.02346c (12121708	)		
449433.81	3758889.89	0.02285c	(12121708)	449437.68
3758889.89	0.02227c (12121708	)		
449441.55	3758889.89	0.02172c	(12121708)	449445.42
3758889.89	0.02120c (12121708	)		
449368.02	3758903.93	0.04002c	(12121708)	449371.89
3758903.93	0.03836c (12121708	)		
449375.76	3758903.93	0.03685c	(12121708)	449379.63
3758903.93	0.03544c (12121708	)		
449383.50	3758903.93	0.03415c	(12121708)	449387.37
3758903.93	0.03294c (12121708	)		
449391.24	3758903.93	0.03181c	(12121708)	449395.11
3758903.93	0.03075c (12121708	)		
449398.98	3758903.93	0.02975c	(12121708)	449402.85
3758903.93	0.02881c (12121708	)		
449406.72	3758903.93	0.02793c	(12121708)	449410.59
3758903.93	0.02710c (12121708	)		
449414.46	3758903.93	0.02631c	(12121708)	449418.33
3758903.93	0.02556c (12121708	)		
449422.20	3758903.93	0.02485c	(12121708)	449426.07
3758903.93	0.02417c (12121708	)		
449429.94	3758903.93	0.02353c	(12121708)	449433.81
3758903.93	0.02292c (12121708	)		
449437.68	3758903.93	0.02234c	(12121708)	449441.55
3758903.93	0.02178c (12121708	)		
449445.42	3758903.93	0.02126c	(12121708)	449368.02
3758917.97	0.04006c (12121708	)		
449371.89	3758917.97	0.03841c	(12121708)	449375.76

3758917.97 0.03689c (12121708) 449379.63 3758917.97 0.03549c (12121708) 449383.50 3758917.97 0.03419c (12121708) 449387.37 3758917.97 0.03299c (12121708) 449391.24 0.03187c (12121708) 3758917.97 449395.11 3758917.97 0.03081c (12121708) 449398.98 0.02982c (12121708) 3758917.97 ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 \*\*\* 11/11/21 HRA\DSLTOG\DSLTOG.ISC \*\*\* \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* 11:28:21 PAGE 21 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ U\* \*\*\* THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\* INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000007 ,L0000008 ,L0000009 , L0000010 L0000006 , L0000013 , L0000011 , L0000012 L0000014 , L0000016 , L0000017 , L0000018 , L0000015 , L0000021 , L0000019 , L0000020 L0000022 , L0000023 , L0000024 , L0000025 , L0000026 ر \*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\* \*\* CONC OF TOGDSL IN MICROGRAMS/M\*\*3 \*\* X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) - - - - - - - - - -- - - - - -449402.85 3758917.97 0.02889c (12121708) 449406.72 3758917.97 0.02801c (12121708) 449410.59 3758917.97 0.02718c (12121708) 449414.46 3758917.97 0.02639c (12121708) 449418.33 3758917.97 0.02564c (12121708) 449422.20 3758917.97 0.02493c (12121708) 449426.07 3758917.97 0.02425c (12121708) 449429.94 3758917.97 0.02360c (12121708) 0.02298c (12121708) 449433.81 3758917.97 449437.68 3758917.97 0.02240c (12121708) 0.02184c (12121708) 449441.55 3758917.97 449445.42 3758917.97 0.02132c (12121708) 0.04009c (12121708) 449371.89 449368.02 3758932.01 3758932.01 0.03844c (12121708)

449375.76	3758932.01	0.03692c	(12121708)	449379.63
3758932.01	0.03551c (12121708	)		
449383.50	3758932.01	0.03422c	(12121708)	449387.37
3758932.01	0.03303c (12121708	)		
449391.24	3758932.01	0.03190c	(12121708)	449395.11
3758932.01	0.03086c (12121708	)		
449398.98	3758932.01	0.02987c	(12121708)	449402.85
3758932.01	0.02894c (12121708	)		
449406.72	3758932.01	0.02806c	(12121708)	449410.59
3758932.01	0.02724c (12121708	)		
449414.46	3758932.01	0.02645c	(12121708)	449418.33
3758932.01	0.02570c (12121708	)		
449422.20	3758932.01	0.02499c	(12121708)	449426.07
3758932.01	0.02431c (12121708	)		
449429.94	3758932.01	0.02366c	(12121708)	449433.81
3758932.01	0.02304c (12121708	)		
449437.68	3758932.01	0.02245c	(12121708)	449441.55
3758932.01	0.02189c (12121708	)		
449445.42	3758932.01	0.02137c	(12121708)	449368.02
3758946.05	0.04013c (12121708	)		
449371.89	3758946.05	0.03847c	(12121708)	449375.76
3758946.05	0.03695c (12121708	)		
449379.63	3758946.05	0.03554c	(12121708)	449383.50
3758946.05	0.03426c (12121708	)		
449387.37	3758946.05	0.03306c	(12121708)	449391.24
3758946.05	0.03194c (12121708	)		
449395.11	3758946.05	0.03089c	(12121708)	449398.98
3758946.05	0.02991c (12121708	)		
449402.85	3758946.05	0.02898c	(12121708)	449406.72
3758946.05	0.02810c (12121708	)		
449410.59	3758946.05	0.02727c	(12121708)	449414.46
3758946.05	0.02649c (12121708)	)		
449418.33	3758946.05	0.02574c	(12121708)	449422.20
3758946.05	0.02503c (12121708	)		
449426.07	3758946.05	0.02435c	(12121708)	449429.94
3758946.05	0.02370c (12121708	)		
449433.81	3758946.05	0.02309c	(12121708)	449437.68
3758946.05	0.02249c (12121708	)		
449441.55	3758946.05	0.02193c	(12121708)	449445.42
3758946.05	0.02140c (12121708)	)		
449368.02	3758960.09	0.04016c	(12121708)	449371.89
3758960.09	0.03850c (12121708	)	(	
449375.76	3758960.09	0.03698c	(12121708)	449379.63
3758960.09	0.03557c (12121708)	)	(	
449383.50	3758960.09	0.034296	(12121/08)	449387.37
3/58960.09	0.03309c (12121708	)	(40404-00)	
449391.24	3/58960.09	v.03197с	(12121708)	449395.11
3/58960.09	0.03092C (12121708	)	(10101700)	
449398.98	3/58960.09	0.02994C	(12121/08)	449402.85
3128360.03	0.0290IC (12121/08	)		

449406.72 3758960.09 0.02813c (12121708) 449410.59 0.02731c (12121708) 3758960.09 449414.46 3758960.09 0.02652c (12121708) 449418.33 3758960.09 0.02578c (12121708) 449426.07 0.02507c (12121708) 449422.20 3758960.09 3758960.09 0.02439c (12121708) 449429.94 3758960.09 0.02374c (12121708) 449433.81 0.02312c (12121708) 3758960.09 449437.68 3758960.09 0.02253c (12121708) 449441.55 0.02197c (12121708) 3758960.09 449445.42 3758960.09 0.02144c (12121708) 449368.02 3758974.13 0.04024c (12121708) 449371.89 3758974.13 0.03857c (12121708) 449375.76 3758974.13 0.03704c (12121708) 449379.63 3758974.13 0.03563c (12121708) 449383.50 0.03433c (12121708) 3758974.13 ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 HRA\DSLTOG\DSLTOG.ISC \*\*\* 11/11/21 \*\*\* AERMET - VERSION \*\*\* 16216 \*\*\* \*\*\* 11:28:21 PAGE 22 RegDFAULT CONC ELEV URBAN ADJ U\* \*\*\* MODELOPTs: \*\*\* THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION \*\*\* VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000005 , L0000004 , , L0000007 , L0000009 L0000006 L0000008 , L0000010 , L0000011 , L0000012 , L0000013 , L0000016 L0000014 . L0000015 , L0000017 , L0000018 , L0000021 L0000019 , L0000020 , L0000023 L0000022 , L0000025 , L0000024 , L0000026 ر **\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS** \*\*\* \*\* CONC OF TOGDSL IN MICROGRAMS/M\*\*3 \*\* X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) (YYMMDDHH) Y-COORD (M) CONC - - - -0.03313c (12121708) 449387.37 3758974.13 449391.24 0.03200c (12121708) 3758974.13 449395.11 3758974.13 0.03095c (12121708) 449398.98 0.02996c (12121708) 3758974.13 449402.85 3758974.13 0.02903c (12121708) 449406.72

3758974.13	0.02816c (1212176	98)		
449410.59	3758974.13	0.02733c	(12121708)	449414.46
3758974.13	0.02655c (1212176	98)		
449418.33	3758974.13	0.02581c	(12121708)	449422.20
3758974.13	0.02510c (1212176	98)		
449426.07	3758974.13	0.02442c	(12121708)	449429.94
3758974.13	0.02377c (1212170	98)		
449433.81	3758974.13	0.02316c	(12121708)	449437.68
3758974.13	0.02257c (1212170	98)		
449441.55	3758974.13	0.02200c	(12121708)	449445.42
3758974.13	0.02147c (1212176	98)		
449368.02	3758988.17	0.04030c	(12121708)	449371.89
3758988.17	0.03863c (1212176	98)		
449375.76	3758988.17	0.03709c	(12121708)	449379.63
3758988.17	0.03567c (1212176	98)		
449383.50	3758988.17	0.03437c	(12121708)	449387.37
3758988.17	0.03316c (1212176	98)		
449391.24	3758988.17	0.03203c	(12121708)	449395.11
3758988.17	0.03097c (1212176	98)		
449398.98	3758988.17	0.02998c	(12121708)	449402.85
3758988.17	0.02905c (1212176	98)		
449406.72	3758988.17	0.02817c	(12121708)	449410.59
3758988.17	0.02735c (1212176	98)		
449414.46	3758988.17	0.02657c	(12121708)	449418.33
3758988.17	0.02583c (1212176	98)		
449422.20	3758988.17	0.02512c	(12121708)	449426.07
3758988.17	0.02444c (1212170	98)		
449429.94	3758988.17	0.02380c	(12121708)	449433.81
3758988.17	0.02318c (1212170	98)		
449437.68	3758988.17	0.02259c	(12121708)	449441.55
3758988.17	0.02203c (1212170	98)		
449445.42	3758988.17	0.02149c	(12121708)	449368.02
3759002.21	0.04031c (1212170	98)		
449371.89	3759002.21	0.03863c	(12121708)	449375.76
3759002.21	0.03709c (1212176	98)	(	
449379.63	3759002.21	0.03568c	(12121708)	449383.50
3759002.21	0.03438c (1212176	98)	(40404700)	
449387.37	3/59002.21	0.0331/c	(12121/08)	449391.24
3/59002.21	0.03205c (12121/6	18)	(40404700)	110000 00
449395.11	3/59002.21	0.030990	(12121/08)	449398.98
3/59002.21	0.030000 (12121/6	18)	(42424700)	440406 73
449402.85	3/59002.21	0.029070	(12121708)	449406.72
3/59002.21	0.028190 (12121/6		(10101700)	440414 46
449410.09	5/59002.21 0.02659c (1212170	0.02/3/0	(12121708)	449414.40
בר 110110 בר 140110	2750002 21	0 02504-	(10101700)	440422 20
443410.33	2/2002.21 0 02512c /1212170	אפכעשיש וסג	(15151/00)	449422.20
110126 07	2750000 01	0 021160	(10101700)	110120 01
443420.0/ 2750002 21	0 07387~ (1717177	0.02440C	(12121/00)	449429.94
10 CCADAN	2750000 01	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(10101700)	110107 60
442422.01	J/JJ002.21	0.023200	(12121/00)	44242/.00

3759002.21	0.02261c (12121708)	
449441.55	3759002.21 0.02205c (12121708)	449445.42
3759002.21	0.02151c (12121708)	
449368.02	3759016.25 0.04031c (12121708)	449371.89
3759016.25	0.03864c (12121708)	
449375.76	3759016.25 0.03710c (12121708)	449379.63
3759016.25	0.03568c (12121708)	
449383.50	3759016.25 0.03445 (14121224)	449387.37
3759016.25	0.03319c (12121708)	
449391.24	3759016.25 0.03206c (12121708)	449395.11
3759016.25	0.03101c (12121708)	
449398.98	3759016.25 0.03002c (12121708)	449402.85
3759016.25	0.02909c (12121708)	
449406.72	3759016.25 0.02821c (12121708)	449410.59
3759016.25	0.02738c (12121708)	
449414.46	3759016.25 0.02659c (12121708)	449418.33
3759016.25	0.02585c (12121708)	
449422.20	3759016.25 0.02514c (12121708)	449426.07
3759016.25	0.02447c (12121708)	
449429.94	3759016.25 0.02382c (12121708)	449433.81
3759016.25	0.02321c (12121708)	
449437.68	3759016.25 0.02263c (12121708)	449441.55
3759016.25	0.02207c (12121708)	
449445.42	3759016.25 0.02153c (12121708)	449368.02
3759030.29	0.04042c (12121708)	
★ *** AERMOD - VER	SION 19191 *** *** C:\LAKES\AERMOD VIEW\14172	
HRA\DSLTOG\DSLTOG.	ISC *** 11/11/21	
*** AERMET - VERS	ION 16216 *** ***	
	*** 11:28:21	
	PAGE 23	
*** MODELOPTs:	RegDFAULT CONC ELEV URBAN ADJ_U*	
	*** THE 1ST HIGHEST 8-HR AVERAGE CON	CENTRATION
VALUES FOR SOURCE	GROUP: ALL ***	
	INCLUDING SOURCE(S): L0000001	, L0000002
,L000003 ,L	000004 , L000005 ,	
L	0000006 , L0000007 , L0000008 , L0000009	, L0000010
,L0000011 ,L	0000012 , L0000013 ,	
L	0000014 , L0000015 , L0000016 , L0000017	, L0000018

ſ \*\*\*

, L0000019

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

, L0000026

, L0000025

\*\* CONC OF TOGDSL IN MICROGRAMS/M\*\*3

\*\*

L0000022

, L0000020

, L0000023

, L0000021

ر

, L0000024

X-COORD (M) Y-COORD (M)	Y-COORD CONC	(M) (YYMMDDHH	CONC )	(YYMMDDHH)	X-COORD (M)
					440275 76
4493/1.89	3/59030	1.29 (10101700	0.038/3C	(12121708)	449375.76
5/59050.29 1/0370 63	3759030	. (12121700 ) 29	0 03576c	(12121708)	119383 50
3759030 29	0 034460	· (12121708	)	(12121700)	
449387.37	3759030	. 29	0.03324c	(12121708)	449391.24
3759030.29	0.032110	(12121708	)	(	
449395.11	3759030	.29	0.03104c	(12121708)	449398.98
3759030.29	0.030050	(12121708	)	. ,	
449402.85	3759030	.29	0.02911c	(12121708)	449406.72
3759030.29	0.028230	(12121708	)		
449410.59	3759030	.29	0.02739c	(12121708)	449414.46
3759030.29	0.026600	(12121708	)		
449418.33	3759030	.29	0.02585c	(12121708)	449422.20
3759030.29	0.02514c	(12121708	)		
449426.07	3759030	.29	0.02446c	(12121708)	449429.94
3759030.29	0.023820	(12121708	)		
449433.81	3759030	.29	0.02321c	(12121708)	449437.68
3759030.29	0.022620	(12121708	)	(	
449441.55	3759030	.29	0.02206c	(12121708)	449445.42
3759030.29	0.021520	(12121/08	)	(40404700)	
449368.02	3759044	.33	0.04051c	(12121/08)	4493/1.89
3/59044.33	0.038810	(12121/08	)	(10101700)	440270 62
4493/5./6	3/59044	.33	0.03/250	(12121708)	449379.63
3759044.33	0.035820		)	(10101700)	440207 27
449383.50	5/59044 0 022200	··>> · (1)1)1700	0.034510	(12121708)	449387.37
37339044.33 AAQ2Q1 2A	3750044	33	0 03214c	(12121708)	110305 11
3759044 33	0 03107c	· (12121708		(12121/08)	440000.11
449398 98	3759044	33	0 03006c	(12121708)	449402 85
3759044.33	0.029120	(12121708	)	(12121700)	449402.09
449406.72	3759044	.33	, 0.02822c	(12121708)	449410.59
3759044.33	0.027380	(12121708	)	(	
449414.46	3759044	.33	0.02659c	(12121708)	449418.33
3759044.33	0.025840	(12121708	)		
449422.20	3759044	.33	0.02513c	(12121708)	449426.07
3759044.33	0.024450	(12121708	)	. ,	
449429.94	3759044	.33	0.02381c	(12121708)	449433.81
3759044.33	0.023190	(12121708	)		
449437.68	3759044	.33	0.02261c	(12121708)	449441.55
3759044.33	0.022050	(12121708	)		
449445.42	3759044	.33	0.02151c	(12121708)	
★ *** AERMOD - VFF	RSION 191	L <b>91</b> *** *	*** C:\LAK	ES\AERMOD VIEW\14172	
HRA\DSLTOG\DSLTOG	ISC		***	11/11/21	
*** AERMET - VERS	ION 1621	.6 *** **	*	_ <b>_,,</b>	
	***	11	:28:21		
PAGE 24

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST 1-HR

**RESULTS** \*\*\*

\*\* CONC OF TOGDSL IN MICROGRAMS/M\*\*3

\*\*

DATE NETWORK GROUP ID AVERAGE CONC (YYMMDDHH) RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID . . . . . . . . . . . . . . . ALL HIGH 1ST HIGH VALUE IS 0.04939 ON 13020301: AT ( 449368.02, 3759016.25, 199.00, 199.00, 0.00) DC \*\*\* RECEPTOR TYPES: GC = GRIDCART GP = GRIDPOLRDC = DISCCART DP = DISCPOLR ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 \*\*\* 11/11/21 HRA\DSLTOG\DSLTOG.ISC \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* \*\*\* 11:28:21 PAGE 25 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\* \*\*\* THE SUMMARY OF HIGHEST 8-HR **RESULTS** \*\*\* \*\* CONC OF TOGDSL IN MICROGRAMS/M\*\*3 \*\* DATE NETWORK GROUP ID RECEPTOR AVERAGE CONC (YYMMDDHH) (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID . . . . . . . . . . . . . . ALL HIGH 1ST HIGH VALUE IS 0.04051c ON 12121708: AT ( 449368.02, 3759044.33, 198.07, 198.07, 0.00) DC

```
*** RECEPTOR TYPES: GC = GRIDCART
                   GP = GRIDPOLR
                   DC = DISCCART
                   DP = DISCPOLR
★ *** AERMOD - VERSION 19191 ***
                                *** C:\LAKES\AERMOD VIEW\14172
HRA\DSLTOG\DSLTOG.ISC
                                      ***
                                                11/11/21
                               ***
*** AERMET - VERSION
                    16216 ***
                     ***
                               11:28:21
                               PAGE 26
*** MODELOPTs:
                 RegDFAULT CONC ELEV URBAN ADJ U*
*** Message Summary : AERMOD Model Execution ***
 ----- Summary of Total Messages ------
A Total of
                    0 Fatal Error Message(s)
A Total of
                    2 Warning Message(s)
A Total of
                  1638 Informational Message(s)
A Total of
                 43848 Hours Were Processed
A Total of
                 1039 Calm Hours Identified
A Total of
                   599 Missing Hours Identified ( 1.37 Percent)
   ******* FATAL ERROR MESSAGES *******
             *** NONE ***
                              *******
   *******
             WARNING MESSAGES
ME W186
           130
                    MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
     0.50
ME W187
                    MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
           130
   ******
   *** AERMOD Finishes Successfully ***
   ** Lakes Environmental AERMOD MPI
**
**
** AERMOD INPUT PRODUCED BY:
** AERMOD VIEW VER. 10.0.1
** LAKES ENVIRONMENTAL SOFTWARE INC.
```

```
** DATE: 11/11/2021
** FILE: C:\LAKES\AERMOD VIEW\14172 HRA\NO2\NO2.ADI
**
**
**
** AERMOD CONTROL PATHWAY
**
**
CO STARTING
  TITLEONE C:\LAKES\AERMOD VIEW\14172 HRA\NO2\NO2.ISC
  MODELOPT DFAULT CONC
  AVERTIME 1
  URBANOPT 2189641
  POLLUTID NO2
  RUNORNOT RUN
  ERRORFIL NO2.ERR
CO FINISHED
**
** AERMOD SOURCE PATHWAY
**
**
SO STARTING
** SOURCE LOCATION **
** SOURCE ID - TYPE - X COORD. - Y COORD. **
** _____
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE1
** DESCRSRC I-15 FREEWAY
** PREFIX
** LENGTH OF SIDE = 46.00
** CONFIGURATION = ADJACENT
** EMISSION RATE = 0.35171
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 2
** 449288.372, 3758373.924, 188.51, 3.49, 21.40
** 449298.585, 3759554.578, 201.92, 3.49, 21.40
** _____
  LOCATION L0000001
                          449288.571 3758396.923 188.77
                   VOLUME
  LOCATION L0000002
                          449288.969 3758442.921 189.29
                   VOLUME
  LOCATION L0000003
                          449289.367 3758488.920 189.82
                   VOLUME
  LOCATION L0000004
                          449289.765 3758534.918 190.34
                   VOLUME
  LOCATION L0000005
                  VOLUME
                          449290.163 3758580.916 190.86
                  VOLUME 449290.561 3758626.914 191.38
  LOCATION L0000006
  LOCATION L0000007
                  VOLUME
                          449290.958 3758672.913 191.91
```

	LOCATION	L0000008	VOLUME	449291.35	56 3758718	3.911 192.4	3
	LOCATION	L0000009	VOLUME	449291.75	54 3758764	4.909 192.9	5
	LOCATION	L0000010	VOLUME	449292.1	52 3758810	0.908 193.4	7
	LOCATION	L0000011	VOLUME	449292.55	50 3758856	5.906 194.0	0
	LOCATION	L0000012	VOLUME	449292.94	48 3758902	2.904 194.5	2
	LOCATION	L0000013	VOLUME	449293.34	46 3758948	3.902 195.0	4
	LOCATION	L0000014	VOLUME	449293.74	44 3758994	4.901 195.5	6
	LOCATION	10000015	VOLUME	449294.14	42 3759046	9.899 196.0	9
	LOCATION	L0000016	VOLUME	449294.54	40 3759086	5.897 196.6	1
	LOCATION	L0000017	VOLUME	449294.9	38 3759132	2.895 197.1	3
	LOCATION	10000018	VOLUME	449295.3	35 3759178	3.894 197.6	5
		10000019		449295.7	33 3759224	4.892 198.1	8
		1 0000020		449296.1	31 3759270	0.890 198.7	0
		1 0000021		449296.52	29 3759316	5.889 199.2	2
		1 0000022		449296.92	27 3759362	2.887 199.7	4
		1 0000022		449297.32	25 3759408	R 885 200.2	7
		1 0000023		449297 72	23 3759450	1 883 200.2	9
		1 0000024		449298 12	23 37595949-	, 882 200.7 8 882 201 3	1
		10000025		1/10208 51	19 37595/6	5 880 201.3	3
**			IRCE TD -	SI TNE1	1) )/)))4(		
**		NE VOLOME SOU	INCL ID =	JEINEI			
**			- CLTNE1				
		I AAAAAAA	- SLINLI	2077	3 10	21 10	2 25
	SPCDADAM	10000001	0.013527		2 10	21.40	2.25
	SPCDADAM	10000002	0.0135273		2 49	21.40	2.22
	SECHARAM	L0000003	0.0135273		2.49	21.40	2.25 2.25
	SECHARAM		0.0135273		2.49	21.40	2.25 2.25
	SPCDADAM	10000005	0.0135273		2 10	21.40	2.25
	SPCDADAM		0.0135273		2 49	21.40	2.25
	SACRARAM	10000007	0.0135273		2.49	21.40	2.25 2.25
	SECHARAM	10000000	0.0135273		2.49	21.40	2.25 2.25
	SECHARAM	L0000009	0.0135273		2.49	21.40	2.25 2.25
	SECRARAM		0.0135273		5.49	21.40	2.25
	SRCPARAM		0.01352/3		5.49	21.40	5.25 2.25
	SRCPARAM		0.01352/3		5.49	21.40	5.25 2.25
	SRCPARAM	L0000013	0.0135273		5.49	21.40	5.25 2.25
	SRCPARAM		0.0135273	8077	3.49	21.40	3.25
	SRCPARAM	L0000015	0.0135273	3077	3.49	21.40	3.25
	SRCPARAM	L0000016	0.0135273	3077	3.49	21.40	3.25
	SRCPARAM	L0000017	0.013527:	3077	3.49	21.40	3.25
	SRCPARAM	L0000018	0.0135273	3077	3.49	21.40	3.25
	SRCPARAM	L0000019	0.013527:	3077	3.49	21.40	3.25
	SRCPARAM	L0000020	0.013527	3077	3.49	21.40	3.25
	SRCPARAM	L0000021	0.013527	30//	3.49	21.40	3.25
	SRCPARAM	L0000022	0.0135273	30//	3.49	21.40	3.25
	SRCPARAM	L0000023	0.0135273	30//	3.49	21.40	3.25
	SRCPARAM	L0000024	0.0135273	3077	3.49	21.40	3.25
	SRCPARAM	L0000025	0.0135273	3077	3.49	21.40	3.25
ala al-	SRCPARAM	L0000026	0.0135273	3077	3.49	21.40	3.25
**							

URBANSRC ALL

```
SRCGROUP ALL
SO FINISHED
**
** AERMOD RECEPTOR PATHWAY
**
**
RE STARTING
  INCLUDED NO2.ROU
RE FINISHED
**
** AERMOD METEOROLOGY PATHWAY
**
**
ME STARTING
  SURFFILE ..\KRAL_V9_ADJU\KRAL_V9.SFC
  PROFFILE ..\KRAL_V9_ADJU\KRAL_V9.PFL
  SURFDATA 3171 2012
  UAIRDATA 3190 2012
  PROFBASE 245.0 METERS
ME FINISHED
**
** AERMOD OUTPUT PATHWAY
**
**
OU STARTING
  RECTABLE ALLAVE 1ST
  RECTABLE 1 1ST
** AUTO-GENERATED PLOTFILES
  PLOTFILE 1 ALL 1ST NO2.AD\01H1GALL.PLT 31
  SUMMFILE NO2.SUM
OU FINISHED
 *** Message Summary For AERMOD Model Setup ***
 ----- Summary of Total Messages ------
A Total of
                 0 Fatal Error Message(s)
A Total of
                 2 Warning Message(s)
A Total of
                 0 Informational Message(s)
   ******* FATAL ERROR MESSAGES *******
           *** NONE ***
```

\*\*\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*\* ME W186 130 MEOPEN: THRESH 1MIN 1-min ASOS wind speed threshold used 0.50 ME W187 130 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET \*\*\* SETUP Finishes Successfully \*\*\* ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 HRA\NO2\NO2.ISC \*\*\* 11/11/21 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* \*\*\* 12:13:28 PAGE 1 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\* \*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\* \*\*Model Is Setup For Calculation of Average CONCentration Values. -- DEPOSITION LOGIC --\*\*NO GAS DEPOSITION Data Provided. \*\*NO PARTICLE DEPOSITION Data Provided. \*\*Model Uses NO DRY DEPLETION. DRYDPLT = F \*\*Model Uses NO WET DEPLETION. WETDPLT = F \*\*Model Uses URBAN Dispersion Algorithm for the SBL for 26 Source(s), for Total of 1 Urban Area(s): Urban Population = 2189641.0 ; Urban Roughness Length = 1.000 m \*\*Model Uses Regulatory DEFAULT Options: 1. Stack-tip Downwash. 2. Model Accounts for ELEVated Terrain Effects. 3. Use Calms Processing Routine. 4. Use Missing Data Processing Routine. 5. No Exponential Decay. 6. Full Conversion Assumed for NO2. 7. Urban Roughness Length of 1.0 Meter Assumed. \*\*Other Options Specified: - Use ADJ\_U\* option for SBL in AERMET ADJ U\* CCVR Sub - Meteorological data includes CCVR substitutions TEMP Sub - Meteorological data includes TEMP substitutions

\*\*Model Assumes No FLAGPOLE Receptor Heights.

\*\*The User Specified a Pollutant Type of: NO2

\*\*Note that special processing requirements apply for the 1-hour NO2 NAAQS - check available guidance.

Model will process user-specified ranks of daily maximum 1-hour values averaged across the number of years modeled.

For annual NO2 NAAQS modeling, the multi-year maximum of PERIOD values can be simulated using the MULTYEAR keyword.

Multi-year PERIOD and 1-hour values should only be done in a single model run using the MULTYEAR option with a

single multi-year meteorological data file using STARTEND keyword.

\*\*Model Calculates 1 Short Term Average(s) of: 1-HR

\*\*This Run Includes: 26 Source(s); 1 Source Group(s); and 441
Receptor(s)

with:	0 POINT(s), including 0 POINTCAP(s) and   0 POINTHOR(s)
and:	26 VOLUME source(s)
and:	0 AREA type source(s)
and:	0 LINE source(s)
and:	<pre>0 RLINE/RLINEXT source(s)</pre>
and:	0 OPENPIT source(s)
and:	<pre>0 BUOYANT LINE source(s) with 0 line(s)</pre>

\*\*Model Set To Continue RUNning After the Setup Testing. \*\*The AERMET Input Meteorological Data Version Date: 16216 \*\*Output Options Selected: Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword) Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword) Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword) \*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours m for Missing Hours b for Both Calm and Missing Hours \*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 245.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0

Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+07 Output Units = MICROGRAMS/M\*\*3 \*\*Approximate Storage Requirements of Model = 3.6 MB of RAM. \*\*Input Runstream File: aermod.inp \*\*Output Print File: aermod.out \*\*Detailed Error/Message File: NO2.ERR \*\*File for Summary of Results: NO2.SUM ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 HRA\NO2\NO2.ISC \*\*\* 11/11/21 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* \*\*\* 12:13:28 PAGE 2 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\* \*\*\* VOLUME SOURCE DATA \*\*\*

		NUMBER	EMISSION RAT	E		BASE	RELEASE	INIT.	
INIT.	URBAN	EMISSI	ON RATE						
SOUR	RCE	PART.	(GRAMS/SEC)	Х	Y	ELEV.	HEIGHT	SY	
SZ	SOURCE	SCALAR	VARY						
ID	)	CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	
(METERS	5)		BY						
									-
L00000	001	0	0.13527E-01	449288.6	3758396.9	188.8	3.49	21.40	
3.25	YES								
L00000	002	0	0.13527E-01	449289.0	3758442.9	189.3	3.49	21.40	
3.25	YES								
L00000	003	0	0.13527E-01	449289.4	3758488.9	189.8	3.49	21.40	
3.25	YES								
L00000	004	0	0.13527E-01	449289.8	3758534.9	190.3	3.49	21.40	
3.25	YES								
L00000	05	0	0.13527E-01	449290.2	3758580.9	190.9	3.49	21.40	
3.25	YES								
L00000	006	0	0.13527E-01	449290.6	3758626.9	191.4	3.49	21.40	
3.25	YES								
L00000	07	0	0.13527E-01	449291.0	3758672.9	191.9	3.49	21.40	
3.25	YES								
L00000	008	0	0.13527E-01	449291.4	3758718.9	192.4	3,49	21.40	

3.25 YES							
L0000009	0	0.13527E-01	449291.8	3758764.9	193.0	3.49	21.40
3.25 YES							
L0000010	0	0.13527E-01	449292.2	3758810.9	193.5	3.49	21.40
3.25 YES							
L0000011	0	0.13527E-01	449292.5	3758856.9	194.0	3.49	21.40
3.25 YES							
L0000012	0	0.13527E-01	449292.9	3758902.9	194.5	3.49	21.40
3.25 YES	_						
L0000013	0	0.13527E-01	449293.3	3758948.9	195.0	3.49	21.40
3.25 YES	•	0 105075 01	440000 7	2750004 0	105 6	2 40	24 40
	0	0.1352/E-01	449293.7	3/58994.9	195.6	3.49	21.40
3.25 YES	0	0 125275 01	440204 1	2750040 0	106 1	2 40	21 40
2 25 VEC	0	0.1332/E-01	449294.1	5759040.9	190.1	5.49	21.40
10000016	a	0 13527F-01	449294 5	3759086 9	196 6	3 49	21 40
3.25 YES	Ū	0.1332/2 01	++525+•5	5,55000.5	190.0	5.45	21.40
L0000017	0	0.13527E-01	449294.9	3759132.9	197.1	3.49	21.40
3.25 YES	•	••••••					
L0000018	0	0.13527E-01	449295.3	3759178.9	197.7	3.49	21.40
3.25 YES							
L0000019	0	0.13527E-01	449295.7	3759224.9	198.2	3.49	21.40
3.25 YES							
L0000020	0	0.13527E-01	449296.1	3759270.9	198.7	3.49	21.40
3.25 YES							
L0000021	0	0.13527E-01	449296.5	3759316.9	199.2	3.49	21.40
3.25 YES	_						
L0000022	0	0.13527E-01	449296.9	3759362.9	199.7	3.49	21.40
3.25 YES	~	0 105075 01	440207 2	2750400 0	200.2	2 40	21 40
	0	0.1352/E-01	449297.3	3759408.9	200.3	3.49	21.40
10000021	Q	0 13527E_01	π τρερικ	3750/5/ 0	200 8	3 10	21 10
2 25 VES	0	0.133271-01	449297.7	5759454.9	200.8	5.49	21.40
10000025	a	0 13527F-01	449298 1	3759500 9	201 3	3 49	21 40
3.25 YES	Ŭ	0.1332/2 01	115250.1	5,55500.5	201.9	5.15	21.10
L000026	0	0.13527E-01	449298.5	3759546.9	201.8	3.49	21.40
3.25 YES							
★ *** AERMOD - VE	ERSIO	)N 19191 *** ***	*** C:\ 11/11/	LAKES\AERMOD 21	VIEW\1417	2 HRA\NO	2\NO2.ISC
*** AERMET - VER	SION	16216 ***	***				
		***	12:13:28				
			PAGE 3				
*** MODELOPTs:	Re	gDFAULT CONC	ELEV U	RBAN ADJ_U*			

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SRCGROUP ID

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS

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ALL L0000001 , L0000002 , L0000004 , L0000003 , L0000005 , L0000006 ,L0000007 ,L0000008 , , L0000010 , L0000012 , L0000013 , L0000011 L0000009 , L0000016 L0000014 , L0000015 ر L0000017 , L0000018 , L0000019 , L0000020 , L0000021 • L0000022 , L0000024 , L0000023 , L0000025 , L0000026 \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 HRA\NO2\NO2.ISC \*\*\* 11/11/21 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* \*\*\* 12:13:28 PAGE 4 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\* \*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\* URBAN ID URBAN POP SOURCE IDs \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ . . . . . . . . . . 2189641. L0000001 , L0000002 , L0000003 , L0000004 ر L0000005 , L0000006 , L0000007 ر L0000008 ر , L0000010 L0000009 , L0000011 , L0000012 , L0000013 , L0000014 , L0000016 , L0000015 ر , L0000019 , L0000020 , L0000018 L0000017 , L0000021 , L0000024 L0000022 , L0000023 ر L0000025 , L0000026 ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 HRA\NO2\NO2.ISC \*\*\* 11/11/21 \*\*\* \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* 12:13:28 PAGE 5 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\* \*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\* (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)

(METERS)

(449368.0, 3758763.5, 192.6,	195.0,	0.0);	( 449371.9,
3758763.5, 192.2, 195.0,	0.0);	//	, j
(449375.8, 3758763.5, 191.8,	195.0,	0.0);	( 449379.6,
3758763.5, 191.4, 195.0,	0.0);		
(449383.5, 3758763.5, 191.2,	195.0,	0.0);	( 449387.4,
3758763.5, 190.9, 195.0,	0.0);		
( 449391.2, 3758763.5, 190.6,	190.6,	0.0);	( 449395.1,
3758763.5, 190.4, 190.4,	0.0);		
(449399.0, 3758763.5, 190.1,	190.1,	0.0);	( 449402.8,
3758763.5, 189.9, 189.9,	0.0);		
(449406.7, 3758763.5, 189.6,	189.6,	0.0);	( 449410.6,
3758763.5, 189.4, 189.4,	0.0);		
(449414.5, 3758763.5, 189.3,	189.3,	0.0);	( 449418.3,
3758763.5, 189.1, 189.1,	0.0);		
(449422.2, 3758763.5, 189.0,	189.0,	0.0);	( 449426.1,
3758763.5, 188.9, 188.9,	0.0);		
(449429.9, 3758763.5, 188.7,	188.7,	0.0);	(449433.8,
3758763.5, 188.6, 188.6,	0.0);		
(449437.7, 3758763.5, 188.5,	188.5,	0.0);	( 449441.5,
3758763.5, 188.4, 188.4,	0.0);		
(449445.4, 3758763.5, 188.3,	188.3,	0.0);	( 449368.0,
3758777.6, 192.5, 195.0,	0.0);		
(449371.9, 3758777.6, 192.0,	195.0,	0.0);	(449375.8,
3758777.6, 191.5, 195.0,	0.0);		
(449379.6, 3758777.6, 191.0,	195.0,	0.0);	(449383.5,
3758777.6, 190.8, 195.0,	0.0);		
(449387.4, 3758777.6, 190.5,	195.0,	0.0);	( 449391.2,
3758777.6, 190.3, 195.0,	0.0);		
(449395.1, 3758777.6, 190.0,	195.0,	0.0);	( 449399.0,
3758777.6, 189.7, 195.0,	0.0);		
(449402.8, 3758777.6, 189.5,	195.0,	0.0);	( 449406.7,
3758777.6, 189.2, 195.0,	0.0);		
(449410.6, 3758777.6, 189.0,	189.0,	0.0);	( 449414.5,
3758777.6, 188.9, 188.9,	0.0);		
(449418.3, 3758777.6, 188.8,	188.8,	0.0);	( 449422.2,
3758777.6, 188.6, 188.6,	0.0);		
(449426.1, 3758777.6, 188.5,	188.5,	0.0);	(449429.9,
3758777.6, 188.4, 188.4,	0.0);		
(449433.8, 3758777.6, 188.2,	188.2,	0.0);	(449437.7,
3758777.6, 188.1, 188.1,	0.0);		
(449441.5, 3758777.6, 188.0,	188.0,	0.0);	( 449445.4,
3758777.6, 188.0, 188.0,	0.0);		
(449368.0, 3758791.6, 192.6,	192.6,	0.0);	( 449371.9,
3758791.6, 192.3, 195.0,	0.0);		
( 449375.8, 3758791.6, 191.9,	195.0,	0.0);	( 449379.6,
3758791.6, 191.5, 195.0,	0.0);		
(449383.5, 3758791.6, 191.2,	195.0,	0.0);	( 449387.4,
3758791.6, 191.0, 191.0,	0.0);		

( 449391.	2,	3758791	.6,	190.7,	190.7,	0.0);	( 449395.1,
3758791.6,	1	90.5,	190.5,		0.0);		
( 449399.	0,	3758791	.6,	190.2,	190.2,	0.0);	( 449402.8,
3758791.6,	1	90.0,	190.0,		0.0);		
( 449406.	7,	3758791	.6,	189.7,	189.7,	0.0);	( 449410.6,
3758791.6,	1	89.5,	189.5,		0.0);		
( 449414.	5,	3758791	.6,	189.3,	189.3,	0.0);	( 449418.3,
3758791.6,	1	89.2,	189.2,		0.0);		
( 449422.	2,	3758791	.6,	189.1,	189.1,	0.0);	( 449426.1,
3758791.6,	1	89.0,	189.0,		0.0);		
( 449429.	9,	3758791	.6,	188.8,	188.8,	0.0);	( 449433.8,
3758791.6,	1	88.7,	188.7,		0.0);		
( 449437.	7,	3758791	.6,	188.6,	188.6,	0.0);	( 449441.5,
3758791.6,	1	88.5,	188.5,		0.0);		
( 449445.	4,	3758791	.6,	188.4,	188.4,	0.0);	( 449368.0,
3758805.6,	1	92.8,	192.8,		0.0);		
( 449371.	9,	3758805	.6,	192.5,	192.5,	0.0);	( 449375.8,
3758805.6,	1	92.2,	192.2,		0.0);		
( 449379.	6,	3758805	.6,	192.0,	192.0,	0.0);	( 449383.5,
3758805.6,	1	91.7,	191.7,		0.0);		
( 449387.	4,	3758805	.6,	191.5,	191.5,	0.0);	( 449391.2,
3758805.6,	1	91.2,	191.2,		0.0);		
( 449395.	1,	3758805	.6,	190.9,	190.9,	0.0);	( 449399.0,
3758805.6,	1	90.7,	190.7,		0.0);		
( 449402.	8,	3758805	.6,	190.4,	190.4,	0.0);	( 449406.7,
3758805.6,	1	90.2,	190.2,		0.0);		
( 449410.	6,	3758805	.6,	189.9,	189.9,	0.0);	( 449414.5,
3758805.6,	1	89.8,	189.8,		0.0);		
( 449418.	3,	3758805	.6,	189.7,	189.7,	0.0);	( 449422.2,
3758805.6,	1	89.6,	189.6,		0.0);		
( 449426.	1,	3758805	.6,	189.4,	189.4,	0.0);	( 449429.9,
3758805.6,	1	89.3,	189.3,		0.0);		
( 449433.	8,	3758805	.6,	189.2,	189.2,	0.0);	( 449437.7,
3758805.6,	1	89.0,	189.0,		0.0);		
( 449441.	5,	3758805	.6,	188.9,	188.9,	0.0);	( 449445.4,
3758805.6,	1	88.8,	188.8,		0.0);		
( 449368.	0,	3758819	.7,	192.8,	192.8,	0.0);	( 449371.9,
3758819.7,	1	92.5,	192.5,		0.0);		
( 449375.	8,	3758819	.7,	192.2,	192.2,	0.0);	( 449379.6,
3758819.7,	1	92.0,	192.0,		0.0);		
( 449383.	5,	3758819	.7,	191.7,	191.7,	0.0);	( 449387.4,
3758819.7,	1	91.5,	191.5,		0.0);		
★ *** AERMOD -	- V	ERSION	19191 **	** **	** C:\LAKES\AERMOD	VIEW\14172	HRA\NO2\NO2.ISC
			***	1	.1/11/21		
*** AERMET -	VE	RSION 16	5216 ***	***	:		
		\$	***	12:	13:28		
				PAG	iE 6		

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

# \*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\* (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG) (METERS)

(METERS)

(449391.2, 3758819.7, 191.2,	191.2,	0.0);	( 449395.1,
3758819.7, 191.0, 191.0,	0.0);		
(449399.0, 3758819.7, 190.7,	190.7,	0.0);	( 449402.8,
3758819.7, 190.4, 190.4,	0.0);		
(449406.7, 3758819.7, 190.2,	190.2,	0.0);	( 449410.6,
3758819.7, 190.0, 190.0,	0.0);		
( 449414.5, 3758819.7, 189.8,	189.8,	0.0);	( 449418.3,
3758819.7, 189.7, 189.7,	0.0);		
( 449422.2, 3758819.7, 189.6,	189.6,	0.0);	( 449426.1,
3758819.7, 189.5, 189.5,	0.0);		
(449429.9, 3758819.7, 189.3,	189.3,	0.0);	( 449433.8,
3758819.7, 189.2, 189.2,	0.0);		
( 449437.7, 3758819.7, 189.1,	189.1,	0.0);	( 449441.5,
3758819.7, 188.9, 188.9,	0.0);		
(449445.4, 3758819.7, 188.8,	188.8,	0.0);	( 449368.0,
3758833.7, 192.8, 192.8,	0.0);		
(449371.9, 3758833.7, 192.5,	192.5,	0.0);	( 449375.8,
3758833.7, 192.2, 192.2,	0.0);		
(449379.6, 3758833.7, 192.0,	192.0,	0.0);	(449383.5,
3758833.7, 191.7, 191.7,	0.0);		
(449387.4, 3758833.7, 191.5,	191.5,	0.0);	( 449391.2,
3758833.7, 191.2, 191.2,	0.0);		
(449395.1, 3758833.7, 191.0,	191.0,	0.0);	( 449399.0,
3758833.7, 190.7, 190.7,	0.0);		
(449402.8, 3758833.7, 190.4,	190.4,	0.0);	(449406.7,
3758833.7, 190.2, 190.2,	0.0);		
(449410.6, 3758833.7, 190.0,	190.0,	0.0);	( 449414.5,
3/58833./, 189.8, 189.8,	0.0);		
(449418.3, 3758833.7, 189.7,	189.7,	0.0);	(449422.2,
3/58833./, 189.6, 189.6,	0.0);	0.0	(
(449426.1, 3/58833./, 189.5,	189.5,	0.0);	( 449429.9,
3/58833./, 189.3, 189.3,	0.0);	0.0	(
(449433.8, 3/58833.7, 189.2,	189.2,	0.0);	( 449437.7,
3/58833./, 189.1, 189.1,	0.0);	0.0).	
(449441.5, 3/58833.7, 188.9,	188.9,	0.0);	( 449445.4,
3/58833./, 188.8, 188.8,	0.0);	0.0).	( 440271 0
(449368.0, 3/5884/.8, 193.4,	193.4,	0.0);	( 4493/1.9,
3/5884/.8, 193.2, 193.2,	0.0);	0.0).	( 110270 (
(449375.8, 3758847.8, 193.0,	193.0,	0.0);	( 4493/9.6,
3/3884/.8, 192.8, 192.8, / 440393 E 2759947 9 103 E	0.0); 102 F	0.0.	( 440207 4
(449383.5, 3/3884/.8, 192.5,	192.5,	0.0);	( 449587.4,
3/5884/.8, 192.2, 192.2,	0.0);	0.0).	( 440205 1
(449391.2, 3/3884/.8, 192.0, 2750047 0 101 7 101 7	192.0,	0.0);	( 449395.1,
//0004/.0, IJI./, IJI./, ///0200 0 27500/7 0 101 5	ر0.0), 101 ⊑	0 0).	( 110107 0
(4425, 57500, 5750047, 0, 191.)	ر ۲۵۲۰۵, م ۵)	0.0),	( 449402.0,
۲۶۲۰۷, ۲۶۲۰۷, ۲۶۲۰۷, ۵٬۶۵۰	0.0),		

( 449406.	7, 3758847	.8, 1	191.0,	191.0,	0.0);	( 449410.6,
3758847.8,	190.7,	190.7,	-	0.0);		,
( 449414.	5, 3758847	.8, 1	190.5,	190.5,	0.0);	( 449418.3,
3758847.8.	190.4.	190.4.	· · · <b>,</b>	0.0);		
( 449422.	2. 3758847	.8. 1	190.2.	190.2.	0.0):	( 449426.1.
3758847.8.	190.0.	190.0.	,	0.0):		
( 449429.	9. 3758847	.8. 1	189.8.	189.8.	0.0):	( 449433.8.
3758847.8.	189.6.	189.6.		0.0):		
( 449437.	7. 3758847	.8. 1	189.5.	189.5.	0.0):	( 449441 5
3758847 8	189 3	- 189 3	,	9 9)·	0.073	( 11911219)
( 449445	4 3758847	8 1	189 2	189 2	9 9).	( 449368 A
3758861 8	194 1	194 1	105.2,	9 9)·	0.0);	( 445500.03
/ //9371	9 3758861	بدري ع	191 0	19/ 0	0 0).	( 119375 8
2758861 8	102 8	102 8	194.0,	a a).	0.0),	( ++))/).0,
2/30001.0, / 440270	193.0, c 37500c1	195.0,	102 7	102 7	0 0).	( 440202 E
( 4495/9.	102 4	•0, 1 102 4	195.7,	195.7,	0.0),	( 449505.5,
5/50001.0,	193.4,	195.4,	102.2	102.2	0.0).	( 440201 2
( 44938/.	4, 3/58861	.8, J	193.2,	193.2,	0.0);	( 449391.2,
3/58861.8,	192.9,	192.9,	100 7	0.0);	0.0).	( 440200 0
( 449395.	1, 3/58861	.8, 1	192.7,	192.7,	0.0);	( 449399.0,
3/58861.8,	192.4,	192.4,		0.0);	a a)	(
( 449402.	8, 3/58861	.8, 1	192.1,	192.1,	0.0);	( 449406./,
3/58861.8,	191.9,	191.9,		0.0);	a a)	/
( 449410.	6, 3758861	.8, 1	191.6,	191.6,	0.0);	( 449414.5,
3758861.8,	191.4,	191.4,		0.0);		
( 449418.	3, 3758861	.8, 1	191.2,	191.2,	0.0);	( 449422.2,
3758861.8,	190.9,	190.9,		0.0);		
( 449426.	1, 3758861	.8, 1	190.7,	190.7,	0.0);	( 449429.9,
3758861.8,	190.4,	190.4,		0.0);		
( 449433.	8, 3758861	.8, 1	190.2,	190.2,	0.0);	( 449437.7,
3758861.8,	190.0,	190.0,		0.0);		
( 449441.	5, 3758861	.8, 1	189.8,	189.8,	0.0);	( 449445.4,
3758861.8,	189.7,	189.7,		0.0);		
( 449368.	0, 3758875	.8, 1	194.7,	194.7,	0.0);	( 449371.9,
3758875.8,	194.6,	194.6,		0.0);		
( 449375.	8, 3758875	.8, 1	194.4,	194.4,	0.0);	( 449379.6,
3758875.8,	194.3,	194.3,		0.0);		
( 449383.	5, 3758875	.8, 1	194.1,	194.1,	0.0);	( 449387.4,
3758875.8,	193.8,	193.8,		0.0);		
( 449391.	2, 3758875	.8, 1	193.5,	193.5,	0.0);	( 449395.1,
3758875.8,	193.3,	193.3,		0.0);		
( 449399.	0, 3758875	.8, 1	193.0,	193.0,	0.0);	( 449402.8,
3758875.8,	192.8,	192.8,	-	0.0);		,
( 449406.	7, 3758875	.8. 1	192.5.	192.5.	0.0);	( 449410.6.
3758875.8.	192.2.	192.2.	)	0.0);		、 -···)
▲ *** AERMOD -	VERSION	19191 ** <sup>;</sup>	* ***	* C:\LAKES\AERMOD	VIEW\14172	HRA\NO2\NO2.ISC
		***	11	1/11/21	, ·	
*** AERMET -	VERSION 1	6216 ***	***	, -,		
		***	12:1	13:28		

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\* (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG) (METERS)

(449414.5, 3758875.8, 192.0,	192.0,	0.0);	( 449418.3,
( 449422.2, 3758875.8, 191.7, 191.5,	0.0); 191.5,	0.0);	( 449426.1,
3758875.8, 191.2, 191.2, (449429.9, 3758875.8, 191.0,	0.0); 191.0,	0.0);	( 449433.8,
3758875.8, 190.7, 190.7, ( 449437.7, 3758875.8, 190.4,	0.0); 190.4,	0.0);	( 449441.5,
3758875.8, 190.2, 190.2, ( 449445.4, 3758875.8, 190.1.	0.0); 190.1.	0.0):	( 449368.0.
3758889.9, 195.2, 195.2, ( 449371 9 3758889 9 195.0	0.0);	0 0).	( 449375 8
3758889.9,       194.9,       194.9,         (449371.9, 5758889.9,       194.9,         104.0,       104.0,	0.0);	0.0),	( 449373.8,
(449379.6, 3758889.9, 194.8,         3758889.9, 194.5, 194.5,	194.8, 0.0);	0.0);	(449383.5,
(449387.4, 3758889.9, 194.3, 3758889.9, 194.0, 194.0,	194.3, 0.0);	0.0);	( 449391.2,
(449395.1, 3758889.9, 193.7, 3758889.9, 193.5, 193.5,	193.7, 0.0);	0.0);	( 449399.0,
(449402.8, 3758889.9, 193.2, 3758889.9, 193.0, 193.0	193.2, 0.0):	0.0);	( 449406.7,
(449410.6, 3758889.9, 192.7, 2758889.9 192.5	192.7,	0.0);	( 449414.5,
(449418.3, 3758889.9, 192.2,	192.2,	0.0);	( 449422.2,
( 449426.1, 3758889.9, 191.7,	0.0); 191.7,	0.0);	( 449429.9,
3758889.9, 191.4, 191.4, ( 449433.8, 3758889.9, 191.2,	0.0); 191.2,	0.0);	( 449437.7,
3758889.9, 190.9, 190.9, ( 449441.5, 3758889.9, 190.7,	0.0); 190.7,	0.0);	( 449445.4,
3758889.9, 190.6, 190.6, ( 449368.0, 3758903.9, 195.8,	0.0); 195.8,	0.0);	( 449371.9,
3758903.9, 195.7, 195.7, ( 449375.8, 3758903.9, 195.6	0.0);	0.0):	( 449379.6.
3758903.9, 195.5, 195.5, (449383 5 3758903 9 195.2	0.0);	0 0).	( 1/0387 /
3758903.9,       195.0,       195.0,         104.7       104.7	0.0);	0.0),	( 449307.4,
(449391.2, 3758903.9, 194.7, 3758903.9, 194.5, 194.5,	194.7, 0.0);	0.0);	(449395.1,
(449399.0, 3758903.9, 194.2, 3758903.9, 194.0, 194.0,	194.2, 0.0);	0.0);	( 449402.8,
(449406.7, 3758903.9, 193.7, 3758903.9, 193.4, 193.4,	193.7, 0.0);	0.0);	( 449410.6,
(449414.5, 3758903.9, 193.1, 3758903.9, 192.8, 192.8.	193.1, 0.0):	0.0);	( 449418.3,
	/ )		

( 449422.	2, 37589	903.9,	192.6,	192.6,	0.0);	( 449426.1,
3758903.9,	192.3,	192.3,	1	0.0);		
( 449429.	9, 37589	903.9,	192.0,	192.0,	0.0);	( 449433.8,
3758903.9,	191.7,	195.0,	1	0.0);		
( 449437.	7, 37589	903.9,	191.4,	195.0,	0.0);	( 449441.5,
3758903.9,	191.2,	191.2,	,	0.0);		
( 449445.	4, 37589	903.9,	191.1,	191.1,	0.0);	( 449368.0,
3758918.0,	196.6,	196.6,	,	0.0);		
( 449371.	9, 37589	918.0,	196.5,	196.5,	0.0);	( 449375.8,
3758918.0,	196.5,	196.5,	ı	0.0);		
( 449379.	6, 37589	918.0,	196.4,	196.4,	0.0);	( 449383.5,
3758918.0,	196.2,	196.2,		0.0);	>	
( 449387.	4, 37589	918.0,	195.9,	195.9,	0.0);	( 449391.2,
3/58918.0,	195./,	195./,	105 1	0.0);	0.0	(
( 449395.	1, 3/589	918.0,	195.4,	195.4,	0.0);	( 449399.0,
3/58918.0,	195.1,	195.1,		0.0);	0.0	(
( 449402.	8, 3/585	918.0,	194.9,	194.9,	0.0);	( 449406./,
3/58918.0,	194.6,	194.6,	101 2	0.0);	0.0).	
( 449410.	104 0	105 0	194.3,	194.3,	0.0);	( 449414.5,
2/20910.0, / 440410	194.0,	,0,54L 19,00	102 C	105 0	0 0).	( 440422 2
( 449418.	2, 2/202 102 2	105 0	193.0,	195.0,	0.0);	( 449422.2,
( //0/26	1 27580	,0.55L 19 0	, 102 0	105 0	0 0).	( 110120 0
3758918 0	192 6	195 0	192.9,	0 0).	0.0),	( 449429.9,
/ //0/33	2 37580	195.0, 18 0	102 2	195 0	0 0).	( 119137 7
3758918 0	191 9	195 0	172.2,	0 0).	0.0),	( ++)+)/./,
( 449441.	5. 37589	918.0.	191.7.	195.0.	0.0):	( 449445.4.
3758918.0.	191.5.	191.5.		0.0):	0.075	
( 449368.	0. 37589	932.0.	197.2.	197.2.	0.0);	( 449371.9.
3758932.0,	197.2,	197.2		0.0);		
( 449375.	8, 37589	932.0,	197.2,	197.2,	0.0);	( 449379.6,
3758932.0,	197.2,	197.2,	,	0.0);	,,,	
( 449383.	5, 37589	932.0,	196.9,	196.9,	0.0);	( 449387.4,
3758932.0,	196.7,	196.7,	-	0.0);	, -	, <u> </u>
( 449391.	2, 37589	932.0,	196.4,	196.4,	0.0);	( 449395.1,
3758932.0,	196.2,	196.2,	1	0.0);		
( 449399.	0, 37589	932.0,	195.9,	195.9,	0.0);	( 449402.8,
3758932.0,	195.6,	195.6,	,	0.0);		
( 449406.	7, 37589	932.0,	195.4,	195.4,	0.0);	( 449410.6,
3758932.0,	195.1,	195.1,	,	0.0);		
( 449414.	5, 37589	932.0,	194.7,	194.7,	0.0);	( 449418.3,
3758932.0,	194.3,	194.3,		0.0);		
( 449422.	2, 37589	932.0,	193.9,	193.9,	0.0);	( 449426.1,
3/58932.0,	193.5,	193.5,	102.1	0.0);	0.0	(
( 449429.	y, 3/589	102.0,	193.1,	193.1,	0.0);	( 449433.8,
>/>>>>>, ▲ *** AFDMOD	192.8,	ر 192.8 LYZ	) ** **	υ.υ); * (·) Ι Ανες\ ΑΓΡΜΟΡ		
T AEKMUD -	- VEK2TO	*** ***	·። ጥ 1·	· C. LAKES (AEKMUD)	VIEW\141/2	
*** <b>\FRMFT</b> _	VERSTON	16716 ***	⊥. × ***	±/ ±±/ ∠±		
	VENDION	***	12.	13.28		

PAGE 8

( 449437.7, 3758932.0, 192.4,	192.4,	0.0);	( 449441.5,
3758932.0, 192.1, 192.1,	0.0);	0.0).	( 440260 0
(449445.4, 3758932.0, 192.0,	192.0,	0.0);	( 449368.0,
<i>3/38940.0</i> , <i>19/./</i> , <i>19/./</i> , ( <i>110371</i> 0, <i>3758016</i> 0, <i>107</i> 7	107 7	0 0).	( 110375 8
3758946.0. 197.7. 197.7.	0.0):	0.0),	( ++))/).0,
(449379.6, 3758946.0, 197.7,	197.7,	0.0);	( 449383.5,
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( 449387.4, 3758946.0, 197.1,	197.1,	0.0);	( 449391.2,
3758946.0, 196.9, 196.9,	0.0);		
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3758946.0, 196.4, 196.4,	0.0);	>	
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(449410.5, 5750940.0, 194.0, 3758046.0, 104.4 104.4	194.0,	0.0),	( 449422.2,
( 449426.1, 3758946.0, 194.4,	196.0.	0.0):	( 449429 9
3758946.0. 193.6. 196.0.	0.0):	0.075	( 119 129 19)
(449433.8, 3758946.0, 193.2,	196.0.	0.0);	( 449437.7.
3758946.0, 192.8, 196.0,	0.0);		
(449441.5, 3758946.0, 192.5,	196.0,	0.0);	( 449445.4,
3758946.0, 192.3, 192.3,	0.0);		
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3758960.1, 198.0, 198.0,	0.0);		
(449375.8, 3758960.1, 198.0,	198.0,	0.0);	( 449379.6,
3758960.1, 198.0, 198.0,	0.0);		
(449383.5, 3758960.1, 197.8,	197.8,	0.0);	(449387.4,
3/58960.1, 19/.5, 19/.5,	0.0);	0.0).	( 440205 1
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( 119399 0 3758960 1 196 8	196.8	0 0).	( 119102 8
3758960 1 196 5 196 5	0 0).	0.0),	( 449402.8,
( 449406.7. 3758960.1. 196.3.	196.3.	0.0):	( 449410.6.
3758960.1. 196.0. 196.0.	0.0):	0.073	( 119 120.0)
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3758960.1, 194.5, 194.5,	0.0);		-
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3758960.1, 193.7, 193.7,	0.0);		

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3758960.1,	193.0, 193.0	,	0.0);		
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( 449379.	6, 3758974.1,	198.0,	198.0,	0.0);	( 449383.5,
3758974.1,	197.8, 197.8	,	0.0);		
( 449387.	4, 3758974.1,	197.6,	197.6,	0.0);	( 449391.2,
3758974.1,	197.5, 197.5	,	0.0);		
( 449395.	1, 3758974.1,	197.3,	197.3,	0.0);	( 449399.0,
3758974.1,	197.1, 197.1	,	0.0);		
( 449402.	8, 3758974.1,	196.9,	196.9,	0.0);	( 449406.7,
3758974.1,	196.7, 196.7	,	0.0);		
( 449410.	6, 3758974.1,	196.5,	196.5,	0.0);	( 449414.5,
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3758974.1,	194.5, 197.0	,	0.0);		<i></i>
( 449433.	8, 3758974.1,	194.2,	197.0,	0.0);	( 449437.7,
3758974.1,	193.8, 197.0	,	0.0);	e e)	(
( 449441.	5, 3/589/4.1,	193.4,	197.0,	0.0);	( 449445.4,
3/589/4.1,	193.1, 197.0	,	0.0);	e e)	(
( 449368.	0, 3/58988.2,	198.1,	198.1,	0.0);	( 4493/1.9,
3/58988.2,	198.1, 198.1	,	0.0);	0.0).	( 440270 C
( 4493/5.)	8, 3/58988.2,	198.1,	198.1,	0.0);	( 4493/9.6,
3/58988.2,	198.1, 198.1 <sub>.</sub>	,	0.0);	0.0).	/ 440207 4
( 449383.	5, 3/58988.2,	197.9,	197.9,	0.0);	( 449387.4,
3/58988.2,	197.8, 197.8 2 2750000 2	, 107 C	0.0);	0 0).	( 440205 1
( 449391.	2, 3/30900.2, 107 E 107 E	197.0,	197.0,	0.0);	( 449395.1,
2/20200.2, / 440200	19/.), 19/.) 0 2750000 2	, 107 /	107 4	0 0).	( 110102 0
( 449399.	107 2 107 2	197.4,	197.4,	0.0);	( 449402.8,
5750900.2, ( 110106	19/.2, 19/.2 7 3750000 3	, 107 1	107 1	0 0).	( 110110 6
2758088 2	106 0 106 0	197.1,	197.1, 0 0)·	0.0),	( 449410.0,
<i>Λ</i> ΛΩΛ1Λ	5 3758988 2	, 196 5	196 5	0 0).	( 119118 3
3758988 2	196 1 196 1	190.9,	0 0).	0.0),	( ++)+10.),
( 449422	2 3758988 2	, 195 8	195 8	9 9).	( 449426 1
3758988 2	195 4 195 4	199.09	0 0).	0.0),	( ++)+20.1,
( 449429	9 3758988 2	, 195 0	195 0	9 9).	( 449433 8
3758988.2.	194.6. 194.6	199109	0.0):	0.0/)	( 11515510)
( 449437.)	7. 3758988.2.	, 194.2.	194.2.	0.0):	( 449441.5.
3758988.2.	193.9. 193.9		0.0):	0.075	( 11511215)
( 449445.	4. 3758988.2.	, 193.5.	193.5.	0.0):	( 449368.0.
3759002.2.	198.5. 198.5		0.0):		、 · · · · · · · · · · · · · · · · · · ·
( 449371.	9, 3759002.2.	, 198.5.	198.5.	0.0):	( 449375.8.
3759002.2.	198.5, 198.5	,,	0.0);		、 ·····,
▲ *** AERMOD -	VERSION 19191 *	, ** **	* C:\LAKES\AERMOD	VIEW\14172 H	HRA\NO2\NO2.ISC
	***	1:	1/11/21	-	

### \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* \*\*\* 12:13:28

PAGE 9 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*

(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)

(METERS)

(449379.6, 3759002.2, 198.5,	198.5,	0.0);	(449383.5,
3759002.2, 198.3, 198.3,	0.0);		
(449387.4, 3759002.2, 198.1,	198.1,	0.0);	( 449391.2,
3759002.2, 197.9, 197.9,	0.0);		
(449395.1, 3759002.2, 197.7,	197.7,	0.0);	( 449399.0,
3759002.2, 197.5, 197.5,	0.0);		
(449402.8, 3759002.2, 197.3,	197.3,	0.0);	( 449406.7,
3759002.2, 197.1, 197.1,	0.0);		
(449410.6, 3759002.2, 196.9,	196.9,	0.0);	( 449414.5,
3759002.2, 196.6, 196.6,	0.0);		
(449418.3, 3759002.2, 196.3,	196.3,	0.0);	( 449422.2,
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3759002.2, 195.3, 195.3,	0.0);		
(449433.8, 3759002.2, 195.0,	195.0,	0.0);	( 449437.7,
3759002.2, 194.7, 194.7,	0.0);		
(449441.5, 3759002.2, 194.3,	194.3,	0.0);	( 449445.4,
3759002.2, 193.9, 193.9,	0.0);		
(449368.0, 3759016.2, 199.0,	199.0,	0.0);	( 449371.9,
3759016.2, 199.0, 199.0,	0.0);		
(449375.8, 3759016.2, 199.0,	199.0,	0.0);	( 449379.6,
3759016.2, 199.0, 199.0,	0.0);		
(449383.5, 3759016.2, 198.7,	198.7,	0.0);	( 449387.4,
3759016.2, 198.5, 198.5,	0.0);		
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3759016.2, 198.0, 198.0,	0.0);		
(449399.0, 3759016.2, 197.7,	197.7,	0.0);	( 449402.8,
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3759016.2, 196.9, 196.9,	0.0);		
(449414.5, 3759016.2, 196.7,	196.7,	0.0);	( 449418.3,
3759016.2, 196.4, 196.4,	0.0);		
(449422.2, 3759016.2, 196.2,	196.2,	0.0);	( 449426.1,
3759016.2, 195.9, 195.9,	0.0);		
(449429.9, 3759016.2, 195.6,	195.6,	0.0);	( 449433.8,
3759016.2, 195.4, 195.4,	0.0);		
( 449437.7, 3759016.2, 195.1,	195.1,	0.0);	( 449441.5,
3759016.2, 194.8, 195.0,	0.0);		
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3759030.3, 198.5, 198.5,	0.0);		

( 449371.	9, 3759030.3,	198.5,	198.5,	0.0);	( 449375.8,
3759030.3,	198.5, 19	8.5,	0.0);		•
( 449379.	6, 3759030.3,	198.5,	198.5,	0.0);	( 449383.5,
3759030.3,	198.3, 19	8.3,	0.0);		
( 449387.	4, 3759030.3,	198.0,	198.0,	0.0);	( 449391.2,
3759030.3,	197.8, 19	7.8,	0.0);		
( 449395.	1, 3759030.3,	197.5,	197.5,	0.0);	( 449399.0,
3759030.3,	197.2, 19	7.2,	0.0);		
( 449402.	8, 3759030.3,	197.0,	197.0,	0.0);	( 449406.7,
3759030.3,	196.7, 19	6.7,	0.0);	e e)	(
( 449410.	6, 3759030.3,	196.5,	196.5,	0.0);	( 449414.5,
3759030.3,	196.3, 19	6.3,	0.0);	a a)	(
( 449418.	3, 3/59030.3,	196.1,	196.1,	0.0);	( 449422.2,
3/59030.3,	195.9, 19	5.9,	0.0);	0.0	( 440420 0
( 449426.	1, 3/59030.3,	195./,	195./,	0.0);	( 449429.9,
3/59030.3,	195.5, 19	5.5,	0.0);	0.0).	
( 449433.	8, 3/59030.3,	195.3,	195.3,	0.0);	( 449437.7,
3/59030.3,	195.1, 19	5.L, 104 9	0.0);	0 0).	
( 449441.	5, 5/59050.5,	194.8,	194.8,	0.0);	( 449445.4,
( 110269	194.4, 19	4.4, 100 1	109 1	0 0).	( 110271 0
375001/ 3	100 1 10	, 1.00 L	190.1,	0.0),	( 4493/1.9,
<i>Λ</i> Δ9375	8 3759 <i>011</i>	198 1	198 1	0 0).	( 449379 6
3759044 3	198 1 19	8 1	0 0).	0.0),	( ++5575.0;
( 449383.	5. 3759044.3.	197.8.	197.8.	0.0):	( 449387.4.
3759044.3.	197.5. 19	7.5.	0.0):	0.075	
( 449391.	2, 3759044.3,	197.3.	197.3.	0.0);	( 449395.1,
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( 449399.	0, 3759044.3,	196.8,	196.8,	0.0);	( 449402.8,
3759044.3,	196.5, 19	6.5,	0.0);	, ,	, j
( 449406.	7, 3759044.3,	196.2,	196.2,	0.0);	( 449410.6,
3759044.3,	196.0, 19	6.0,	0.0);	·	
( 449414.	5, 3759044.3,	195.9,	195.9,	0.0);	( 449418.3,
3759044.3,	195.8, 19	5.8,	0.0);		
( 449422.	2, 3759044.3,	195.6,	195.6,	0.0);	( 449426.1,
3759044.3,	195.5, 19	5.5,	0.0);		
( 449429.	9, 3759044.3,	195.3,	195.3,	0.0);	( 449433.8,
3759044.3,	195.2, 19	5.2,	0.0);		
( 449437.	7, 3759044.3,	195.1,	195.1,	0.0);	( 449441.5,
3759044.3,	194.8, 19	4.8,	0.0);		
( 449445.	4, 3759044.3,	194.4,	194.4,	0.0);	
		<b>1 444</b> 44	*		
♠ ŤŤŤ AEKMUD -	• VERSION 1919	ノム <sup>ㅠㅠ</sup> <sup>・ ・ ・</sup> * ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・	" C: \LAKES \AEKMOD 1 / 11 / 21	VIEW\141/2	HKA \NUZ \NUZ.ISC
*** АЕРМЕТ		···	1/11/21		
AEKMEI -	VERSTON TOSTO				

12:13:28

PAGE 10 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

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\*\*\* METEOROLOGICAL DAYS SELECTED FOR

PROCESSING \*\*\*

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(1=YES; 0=NO)
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1 1 1 1 1 1 1 1 1 1 1111111111 111 1 1 1 1 1 1 1 1 1 1 1111111 11111111111 1111111111 1111111111 1111111111 111 111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 111111111 1111111111 1111111111 111 111 1111111111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 111111111 11111

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

\*\*\* UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED

CATEGORIES \*\*\*

(METERS/SEC)

1.54, 3.09, 5.14, 8.23,

10.80, ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 HRA\NO2\NO2.ISC \*\*\* 11/11/21 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* \*\*\* 12:13:28

PAGE 11 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL

DATA \*\*\*

Surface file: ..\KRAL\_V9\_ADJU\KRAL\_V9.SFC Met Version: 16216 Profile file: ..\KRAL\_V9\_ADJU\KRAL\_V9.PFL Surface format: FREE Profile format: FREE

Surf	ace sta	ation	no.: Name:	UNK	317 (NOWI	71 N				Upper a	air static	on no.: Name:	3190 UNKNOWN
			Year:	2	2012							Year:	2012
First	24 houi	rs of	scala	ar d	lata								
YR MO	DY JDY	HR	H0		U*		W*	DT/DZ	Z ZICNV	/ ZIMCH	M-O LEN	Z0	BOWEN
ALBEDO	REF WS	5 W	D	ΗT	REI	- TA	4	ΗT					
12 01	01 1	01	-25.6	0.	266	-9.	000	-9.000	) -999.	330.	77.9	0.15	2.40
1.00	2.93	55.	10.	.1	288	.1	2.	.0					
12 01	01 1	02	-26.8	0.	277	-9.	000	-9.000	) -999.	351.	84.7	0.15	2.40
1.00	3.05	55.	10.	.1	287	.0	2.	.0				0.45	
12 01	01 1	03	-21.5	0.	221	-9.	.000	-9.000	) -999.	250.	53.5	0.15	2.40
12 01	2.45 01 1	74. 07	-22 0	. т О	204	. Z	2.	.0 _9 000	a _ a a a	260	56 8	0 15	2 10
1.00	2.52	77.	-22.0 10.	.1	285	-J. .9	2.	- <b>J.</b> 000	, - , , , , , , , , , , , , , , , , , ,	200.	50.0	0.15	2.40
12 01	01 1	05	-20.0	0.	206	-9.	.000	-9.000	) -999.	225.	46.8	0.15	2.40
1.00	2.30	80.	10.	.1	285	.4	2.	.0					
12 01	01 1	06	-14.4	0.	171	-9.	000	-9.000	) -999.	170.	32.1	0.15	2.40
1.00	1.93	79.	10.	.1	287	.0	2.	.0		. – .			
12 01	01 1	07 77	-14.9	0.	174	-9.	.000	-9.000	) -999.	174.	33.2	0.15	2.40
12 01	1.96 01 1	//.	11 O	, T	284	• 2	2.	.0	000	167	26 1	0 15	2 40
0.53	1.89	77.	10	1.1	288	-9. .1	2	-9.000	, -999.	107.	50.1	0.15	2.40
12 01	01 1	09	40.4	. <u>.</u> 0.	234	. <u> </u>	359	0.006	5 40.	272.	-28.1	0.15	2.40
0.31	2.10	81.	10.	.1	289	.2	2.	.0					
12 01	01 1	10	112.6	0.	246	0.	742	0.005	5 129.	293.	-11.8	0.15	2.40
0.24	1.99	101.	10.	.1	296	.4	2.	.0					
12 01	01 1	11	161.0	0.	402	1.	188	0.005	5 369.	611.	-35.6	0.15	2.40
0.21	3.68	/8.	104 7	.1	298	.8	2.	. 0		470	10 /	0 15	2 40
12 01	2 80	12 58	184.7	10.	337	⊥. ∕	210 210	0.00	668.	473.	-18.4	0.15	2.40
12 01	01 1	13	183.9	. <u>-</u> 0.	310	. <del>.</del> 1.	.809	.0 0.00'	5 1139.	414.	-14.2	0.15	2.40
0.20	2.57	64.	10.	.1	302	.5	2.	.0				0.170	
12 01	01 1	14	156.6	0.	374	1.	852	0.005	5 1434.	549.	-29.5	0.15	2.40
0.22	3.37	63.	10.	.1	303	.1	2.	.0					
12 01	01 1	15	104.3	0.	382	_1.	658	0.005	5 1546.	567.	-47.2	0.15	2.40
0.25	3.59	62.	10.	.1	302	.5	2.	.0	1	ГГО	145 0	0.15	2 40
17 01	2 76	70 T0	31.8	10.	200	1. 0	. 123 2	0.00	5 15/3.	550.	-145.8	0.15	2.40
12 01	01 1	17	-23 3	. I 0	276	.9 _9	2.	.0 _9 000	-999	354	84 0	0 15	2 40
0.62	3.03	59.	10.	.1	297	.5	2.	.0	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	5511	0110	0.19	2.10
12 01	01 1	18	-21.5	0.	229	-9.	000	-9.000	) -999.	264.	57.8	0.15	2.40
1.00	2.54	54.	10.	.1	295	.4	2.	.0					
12 01	01 1	19	-19.3	0.	204	-9.	000	-9.000	) -999.	221.	45.6	0.15	2.40
1.00	2.27	79.	10.	.1	292	.0	2.	.0				0.1-	a
12 01	01 1	20	-20.7	0.	218	-9.	000	-9.000	) -999.	244.	52.2	0.15	2.40
1.00	2.42	79.	10.	.1	292	• 5	2.	.0					

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 First hour of profile data

 YR MO DY HR HEIGHT F WDIR
 WSPD AMB\_TMP sigmaA sigmaW sigmaV

 12 01 01 01 10.1 1 55.
 2.93 288.2 99.0 -99.00 -99.00

PAGE 12

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

	*** THE	1S	T-HIGHEST	MAX [	DAILY 1-HR	AVERAGE	CONCENTRA	TION	VALUES	AVERAGED
OVE	R 5 YE	ARS F	OR SOURCE	GROUF	P: ALL	***				
					INCLUD	ING SOURC	CE(S):	L000000	)1,	L0000002
ر	L000003	ر	L0000004	,	L0000005	ر				
			L0000006	,	L0000007	, L000	, 80008	L000000	, 99	L0000010
,	L0000011	,	L0000012	ر	L0000013	ر				
			L0000014	,	L0000015	, L000	90016 <b>,</b>	L000001	L7,	L0000018
,	L0000019	ر	L0000020	ر	L0000021	ر				
-		-	L0000022	,	L0000023	, L000	)0024 <b>,</b>	L000002	25 ,	L0000026

**\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS** 

\*\* CONC OF NO2 IN MICROGRAMS/M\*\*3

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\*\* X-COORD (M) Y-COORD (M) CONC X-COORD (M) Y-COORD (M) CONC

440269 02		 10 00E/E	440271 80
3758763.53 18	97873	19.00343	449571.89
449375.76	3758763.53	18.18844	449379.63
3758763.53 17	.45416		
449383.50	3758763.53	16.78344	449387.37
3758763.53 16	.16123		

449391.24 3758763.53	15.58080	449395.11
3758763.53 15.03878		
449398.98 3758763.53	14.53135	449402.85
3758763.53 14.05530		
449406.72 3758763.53	13.60839	449410.59
3758763.53 13.18938		
449414.46 3/58/63.53	12.79959	449418.33
3/58/63.53 12.4308/	12 00155	440406 07
	12.08155	449426.07
	11 42514	440422 01
449429.94 5/56/05.55 2759762 52 11 12545	11.45514	449455.01
11.15545 110137 68 2758763 53	10 84002	110111 55
3758763 53 10 57976	10.04992	449441.33
449445.42 3758763.53	10.32530	449368.02
3758777.57 19.92745	10.52550	115500.02
449371.89 3758777.57	19.01536	449375.76
3758777.57 18.20893		
449379.63 3758777.57	17.46202	449383.50
3758777.57 16.79096		
449387.37 3758777.57	16.16765	449391.24
3758777.57 15.58809		
449395.11 3758777.57	15.04606	449398.98
3758777.57 14.53877		
449402.85 3758777.57	14.06288	449406.72
3758777.57 13.61552		
449410.59 3758777.57	13.19708	449414.46
3758777.57 12.80917		
449418.33 3758777.57	12.44151	449422.20
3/58///.5/ 12.09311	11 76240	440400 04
449426.0/ 3/58///.5/	11.76248	449429.94
3/38///.5/ II.44825	11 15004	440427 69
449455.81 5/58///.5/ 2759777 57 10 96065	11.15004	449457.08
<i>AVGVV1</i> 55 3758777 57	10 60/87	119115 12
3758777 57 10 35365	10.00487	440440.42
449368,02 3758791,61	19,98398	449371.89
3758791.61 19.07556	19.90390	115571.05
449375.76 3758791.61	18.28005	449379.63
3758791.61 17.54250		
449383.50 3758791.61	16.86932	449387.37
3758791.61 16.24388		
449391.24 3758791.61	15.66139	449395.11
3758791.61 15.11824		
449398.98 3758791.61	14.60909	449402.85
3758791.61 14.13142		
449406.72 3758791.61	13.68236	449410.59
3758791.61 13.26214		
449414.46 3758791.61	12.87151	449418.33
3758791.61 12.50199		

449422.20	3758791.61	12.15245	449426.07
3758791.61 11.82	2018		
449429.94	3758791.61	11.50442	449433.81
3758791.61 11.20	ð907		
449437.68	3758791.61	10.92750	449441.55
3758791.61 10.6	5985		
449445.42	3758791.61	10.40553	449368.02
3758805.65 20.04	4236		
449371.89	3758805.65	19.13840	449375.76
3758805.65 18.34	4895		
449379.63	3758805.65	17.61973	449383.50
3758805.65 16.94	4409		
449387.37	3758805.65	16.31641	449391.24
3758805.65 15.73	3174		
449395.11	3758805.65	15.18578	449398.98
3758805.65 14.6	7544		
449402.85	3758805.65	14.19599	449406.72
3758805.65 13.74	4525		
449410.59	3758805.65	13.32328	449414.46
3758805.65 12.93	3067		
449418.33	3758805.65	12.55930	449422.20
3758805.65 12.20	0748		
449426.07	3758805.65	11.87367	449429.94
3758805.65 11.50	5060		
★ *** AERMOD - VERSIO	N 19191 ***	*** C:\LAKES\AERMOD	VIEW\14172 HRA\NO2\NO2.ISC
	***	11/11/21	
*** AERMET - VERSION	16216 ***	***	
	***	12:13:28	

PAGE 13

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

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*** THE	1ST-HIGHEST	MAX DAILY 1-HR	AVERAGE CONCENT	FRATION	VALUES AVERAGED
OVER 5 YEARS	S FOR SOURCE	GROUP: ALL	***		
		INCLUD	<pre>ING SOURCE(S):</pre>	L000000	)1 , L0000002
, L0000003	, L0000004	, L0000005	ر		
	L000006	, L0000007	, L0000008	, L000000	9, L0000010
, L0000011	, L0000012	, L0000013	ر		
	L0000014	, L0000015	, L0000016	, L000001	.7 , L0000018
, L0000019	, L0000020	, L0000021	ر		
	L0000022	, L0000023	, L0000024	, L000002	L0000026
ر					

# \*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

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\*\* CONC OF NO2 IN MICROGRAMS/M\*\*3

X-COORD (M) Y-COORD (M) CONC X-COORD (M)

Y-COORD (M) CONC

449433.81 3758805.65 11.26419 449437.68 3758805.65 10.98150 449441.55 3758805.65 10.71158 449445.42 3758805.65 10.45354 449368.02 3758819.69 20.08166 449371.89 3758819.69 19.17893 449375.76 3758819.69 18.38783 449379.63 3758819.69 17.65644 16.97916 449383.50 3758819.69 449387.37 3758819.69 16.35002 449391.24 3758819.69 15.76413 449395.11 3758819.69 15.21784 14.70583 449398.98 3758819.69 449402.85 3758819.69 14.22554 449406.72 3758819.69 449410.59 13.77406 3758819.69 13.35152 449414.46 3758819.69 12.95856 449418.33 3758819.69 12.58687 449422.20 3758819.69 12.23473 449426.07 3758819.69 11.90518 449429.94 3758819.69 11.59357 449433.81 3758819.69 11.29676 11.01369 449437.68 3758819.69 449441.55 3758819.69 10.74339 449445.42 3758819.69 10.48499 449368.02 3758833.73 20.11286 19.21035 449371.89 3758833.73 449375.76 3758833.73 18.41803 449379.63 17.68554 3758833.73 449383.50 3758833.73 17.00726 449387.37 3758833.73 16.37725 449391.24 3758833.73 15.79058 449395.11 3758833.73 15.24364 449398.98 3758833.73 14.73101 449402.85 3758833.73 449406.72 14.25016 3758833.73 13.79816 449410.59 3758833.73 13.37523 449414.46 3758833.73 12.98211 449418.33 3758833.73 12.61025 449422.20 3758833.73 12.26185 449426.07 3758833.73 11.93439 449429.94 3758833.73 11.62243 449433.81 3758833.73 11.32529 449437.68 3758833.73 11.04189 449441.55 3758833.73 10.77128 449445.42 3758833.73 10.51258 20.21774 449368.02 3758847.77 449371.89

3758847.77 19.29921		
449375.76 3758847.77	18.50535	449379.63
3758847.77 17.77408		
449383.50 3758847.77	17.09420	449387.37
3758847.77 16.46282		
449391.24 3758847.77	15.87394	449395.11
3758847.77 15.32399		
449398.98 3758847.77	14.80917	449402.85
3758847.77 14.32620		
449406.72 3758847.77	13.87278	449410.59
3758847.77 13.44630		
449414.46 3758847.77	13.04739	449418.33
3758847.77 12.67082		
449422.20 3758847.77	12.31800	449426.07
3758847.77 11.98630		
449429.94 3758847.77	11.67086	449433.81
3758847.77 11.37045		
449437.68 3758847.77	11.08399	449441.55
3758847.77 10.81171		
449445.42 3758847.77	10.55219	449368.02
3758861.81 20.32777		
449371.89 3758861.81	19.40373	449375.76
3758861.81 18.57417		
449379.63 3758861.81	17.84676	449383.50
3758861.81 17.16982		
449387.37 3758861.81	16.53913	449391.24
3758861.81 15.95237		
449395.11 3758861.81	15.40204	449398.98
3758861.81 14.88694		
449402.85 3758861.81	14.40252	449406.72
3758861.81 13.94727		
449410.59 3758861.81	13.51851	449414.46
3758861.81 13.11442		
★ *** AERMOD - VERSION 19191 ***	*** C:\LAKES\AERMOD	VIEW\14172 HRA\NO2\NO2.ISC
***	11/11/21	
*** AERMET - VERSION 16216 ***	***	
***	12:13:28	

PAGE 14 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

	**	** THE	1	LST	-HIGHEST	MAX I	DAILY	1-HR	AVEF	RAGE	CONCEN	TRA	TION	VALUES	AVERAGED
0V	ER	5 YEA	RS	FO	R SOURCE	GROUI	P: ALL	-	***	k					
							IN	ICLUD	ENG S	SOURC	CE(S):		L00000	<i>)</i> 1,	L0000002
,	L00	00003		,	L0000004	ر	L0000	0005	ر						
					L0000006	ر	L0000	9007	ر	L000	80008	ر	L00000	ð9,	L0000010
,	L00	000011		,	L0000012	ر	L0000	013	ر						
					L0000014	ر	L0000	9015	ر	L000	00016	ر	L00000	17,	L0000018
ر	L00	000019		,	L0000020	ر	L0000	9021	ر						
					L0000022	ر	L0000	9023	ر	L000	0024	,	L000002	25 <b>,</b>	L0000026

# \*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\* CONC OF NO2 IN MICROGRAMS/M\*\*3

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X-COORD (M) Y-COORD (M) Y-COORD (M) CONC	CONC	X-COORD (M)
449418.33 3758861.81	12.73230	449422.20
3758861.81 12.37488		
449426.07 3758861.81	12.03975	449429.94
3758861.81 11.72064		
449433.81 3758861.81	11.41674	449437.68
3758861.81 11.12695		
449441.55 3758861.81	10.85258	449445.42
3758861.81 10.59217		
449368.02 3758875.85	20.39402	449371.89
3758875.85 19.47642		
449375.76 3758875.85	18.63437	449379.63
3758875.85 17.90050		
449383.50 3758875.85	17.21589	449387.37
3758875.85 16.58350		
449391.24 3758875.85	15.99821	449395.11
3758875.85 15.44913		
449398.98 3758875.85	14.93531	449402.85
3758875.85 14.45158		
449406.72 3758875.85	13.99614	449410.59
3758875.85 13.56658		
449414.46 3758875.85	13.16087	449418.33
3758875.85 12.77754		
449422.20 3758875.85	12.41997	449426.07
3758875.85 12.08281		
449429.94 3758875.85	11.76213	449433.81
3758875.85 11.45671		
449437.68 3758875.85	11.16582	449441.55
3758875.85 10.89028		
449445.42 3758875.85	10.62902	449368.02
3758889.89 20.44410		
449371.89 3758889.89	19.53366	449375.76
3758889.89 18.69120		
449379.63 3758889.89	17.95301	449383.50
3758889.89 17.25869		
449387.37 3758889.89	16.62573	449391.24
3758889.89 16.03395		
449395.11 3758889.89	15.48500	449398.98
3758889.89 14.97206		

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449402.	.85 37	58889.89	14.48846		449406.72
3758889.89	14.0337	9			
449410.	.59 37	58889.89	13.60387		449414.46
3758889.89	13.1980	2			
449418.	.33 37	58889.89	12.81368		449422.20
3758889.89	12.4579	0			
449426	.07 .37	58889.89	12,12005		449429 94
3758880 80	11 7087	20002.02	12.12005		119129191
2/2000.02	01 77		11 40265		440427 69
449455	.01 .007	20002.02	11.49205		449437.08
3/58889.89	11.2007	/			
449441.	.55 37	58889.89	10.92485		449445.42
3758889.89	10.6628	0			
449368.	.02 37	58903.93	20.45482		449371.89
3758903.93	19.5473	0			
449375.	76 37	58903.93	18,72815		449379.63
3758903.93	17.9978	5			
1/10383	50 37	58003 03	17 31880		110387 37
2750002 02	16 6943	1	17.51000		449507.57
2/2020.92	10.0843	1	16 00522		440205 44
449391.	.24 37	58903.93	16.08532		449395.11
3758903.93	15.5231	9			
449398.	.98 37	58903.93	15.00874		449402.85
3758903.93	14.5236	3			
449406.	.72 37	58903.93	14.07022		449410.59
3758903.93	13.6426	6			
449414.	46 37	58903.93	13,23647		449418.33
3758903 93	12 8542	9			
1/0/22	20 37	58003 03	12 /0701		110126 07
2750002 02	10 1576	26963.20	12.49/01		449420.07
2/2020.92	12.15/0		11 02472		440422 04
449429.	.94 37	58903.93	11.834/3		449433.81
3758903.93	11.5270	9			
449437.	.68 37	58903.93	11.23365		449441.55
3758903.93	10.9560	3			
449445.	.42 37	58903.93	10.69356		449368.02
3758917.97	20.4363	5			
449371.	.89 .37	58917.97	19.52910		449375.76
3758917.97	18.7519	2			
//0370	63 37	- 58017 07	18 0/707		110383 50
2750017 07	17 220	50917.97	10.04/07		449505.50
5/2691/.9/	17.5550		16 71000		440201 24
449387.	3/ 3/	58917.97	16./1228		449391.24
3/5891/.9/	16.1308	6			
449395.	.11 37	58917.97	15.58097		449398.98
3758917.97	15.0604	-5			
★ *** AERMOD - \	<b>VERSION</b>	19191 ***	*** C:\LAKES\	AERMOD VIEW\14172	HRA\NO2\NO2.ISC
		***	11/11/21		
*** AERMET - VE	RSION 1	6216 ***	***		
	_	***	12:13:28		
			PAGE 15		

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

*** THE 1ST-HIGHEST M	AX DAILY 1-H	R AVERAGE CONCEN	ITRATION V	ALUES AVERAGED
OVER 5 YEARS FOR SOURCE G	TNCLU		1 0000001	1 0000002
1000003 10000004	1 0000005	DING 300NCL(3).	L0000001	, 10000002
	, 10000007	, 1,0000008	1 0000009	1000010
. 10000011 . 10000012	, 10000013	, 20000000	, 20000000	, 20000010
L0000014	, L0000015	, , L0000016	. L0000017	. L0000018
. L0000019 . L0000020	, L0000021	,	,	,
L000022	, L0000023	, L0000024	. L0000025	. L0000026
•	,	,	,	,
,				
		*** DISCRE	TE CARTESIAN	RECEPTOR POINTS
***				
		** CONC OF NO2	IN MICR	OGRAMS/M**3
**				
X-COORD (M) Y-COOF	RD (M)	CONC		X-COORD (M)
Y-COORD (M) CONC				
				440406 70
	917.97	14.5/025		449406.72
3/5891/.9/ 14.10/38	17 07	12 67245		440414 46
449410.59 3/585	917.97	13.6/345		449414.46
3/5891/.9/ 13.2/144	17 07	12 20406		440422 20
	917.97	12.89406		449422.20
	17 07	12 10/16		440420 04
	17.97	12.19410		449429.94
//9/33 81 37580	17 97	11 55907		119137 68
3758917 97 11 26337		11.55507		++)+)/.00
<u>449441,55</u> 37589	17.97	10.98454		449445,42
3758917.97 10.72104		10.50151		113113112
449368.02 37589	32.01	20.61749		449371.89
3758932.01 19.78024	52102			119972109
449375.76 37589	32.01	19.05139		449379.63
3758932.01 18.37452				
449383.50 37589	32.01	17.74079		449387.37
3758932.01 16.84125				
449391.24 37589	32.01	16.28629		449395.11
3758932.01 15.61218				
449398.98 37589	32.01	15.11834		449402.85
3758932.01 14.60832				
449406.72 37589	32.01	14.14963		449410.59
3758932.01 13.71117				
449414.46 37589	32.01	13.30075		449418.33
3758932.01 12.92365				
449422.20 37589	32.01	12.56508		449426.07
3758932.01 12.22365				
449429.94 37589	32.01	11.89769		449433.81

3758932.01 11	.58669	11 20005	<i>11011</i> 1 55
3758932.01 11	.00976	11.20995	449441.33
449445.42	3758932.01	10.74477	449368.02
449371.89	3758946.05	20.17273	449375.76
3758946.05 19 449379.63	.51588 3758946.05	18.90834	449383.50
3758946.05 17	.76856	20190031	115565156
449387.37	3758946.05	17.18534	449391.24
3758946.05 16	.30124	45 77742	440000 00
449395.11	3/58946.05	15.///43	449398.98
3/58940.05 15	1204/ 2759046 AF	14 66275	110106 72
449402.03 3758016 05 11	5/56940.05 17120	14.00375	449400.72
<i>11</i> <i>11</i> <i>11</i> <i>11</i> <i>11</i>	3758946 05	13 7/191	119111 16
3758946 05 13	37304	19.74191	449414.40
449418 33	3758946 05	12 94565	449422 20
3758946.05 12	.58730	12.94909	++)+22:20
449426.07	3758946.05	12,24629	449429.94
3758946.05 11	.92067		
449433.81	3758946.05	11.60968	449437.68
3758946.05 11	.31260		
449441.55	3758946.05	11.03124	449445.42
3758946.05 10	.76436		
449368.02	3758960.09	21.55934	449371.89
3758960.09 20	.95648		
449375.76	3758960.09	20.38496	449379.63
3758960.09 19	.83383		
449383.50	3758960.09	18.27346	449387.37
3758960.09 17	.68168		
449391.24	3758960.09	16.64625	449395.11
3758960.09 16	.12664		
449398.98	3758960.09	15.29454	449402.85
3758960.09 14	.83112		
449406.72	3758960.09	14.23197	449410.59
3/58960.09 13	.83522	12 24264	
449414.46	3/58960.09	13.34864	449418.33
3/58960.09 12	.96355	12 (0500	440426 07
449422.20 2759060 00 12	3/58960.09	12.60590	449426.07
	2759060 00	11 0/019	110122 01
449429.94 3758060 00 11	67055	11.94010	449455.01
1/19/37 68	3758960 09	11 33249	119111 55
3758960.09 11	.05076	11.55245	++)++1.))
449445.42	3758960.09	10.78776	449368.02
3758974.13 21	.36812		
449371.89	3758974.13	20.69089	449375.76
3758974.13 20	.13184		
449379.63	3758974.13	19.59497	449383.50

3758974.13 18.17693 ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 HRA\NO2\NO2.ISC \*\*\* 11/11/21 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* \*\*\* 12:13:28

### PAGE 16

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

	**	* T	ΉE	151	-HIGHEST	MAX	DAILY	1-HR	AVER	AGE	CONCEN	TRAT	ION	VALUES	AVERA	AGED
OVE	R	5	YEARS	FC	DR SOURCE	GROU	P: ALL	-	***							
							IN		ING S	OURC	CE(S):		L000000	)1,	L0000	9002
ر	L00	000	03	ر	L0000004	,	L0000	0005	,							
					L0000006	,	L0000	0007	ر	L000	80008	ر	L000000	)9,	L0000	010
ر	L00	000	11	ر	L0000012	,	L0000	9013	ر							
					L0000014	,	L0000	9015	,	L000	00016	,	L000001	.7,	L0000	0018
ر	L00	000	19	ر	L0000020	ر	L0000	9021	ر							
					L0000022	,	L0000	9023	,	L000	00024	,	L000002	25 <b>,</b>	L0000	0026
ر																

### \*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

**	CONC	OF	NO2	IN	MICROGRAMS/M**3
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\*\*

X-COORD (M)	) Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
449387.37	7 3758974.13	17.60350	449391.24
3758974.13	17.06292		
449395.13	1 3758974.13	16.11786	449398.98
3758974.13	15.63584		
449402.85	5 3758974.13	14.83591	449406.72
3758974.13	14.40918		
449410.59	3758974.13	14.00618	449414.46
3758974.13	13.45620		
449418.33	3758974.13	12.99397	449422.20
3758974.13	12.62124		
449426.07	7 3758974.13	12.28220	449429.94
3758974.13	11.95620		
449433.83	1 3758974.13	11.64602	449437.68
3758974.13	11.35177		
449441.55	5 3758974.13	11.07543	449445.42
3758974.13	10.81238		
449368.02	2 3758988.17	21.26148	449371.89
3758988.17	20.49453		
449375.76	5 3758988.17	19.91967	449379.63
3758988.17	19.40200		

449383.50 3758988.17	18.11041	449387.37
3758988.17 17.55246		
449391.24 3758988.17	17.02208	449395.11
3758988.17 16.52419		
449398.98 3758988.17	15.63702	449402.85
3758988.17 15.19186		
449406.72 3758988.17	14.77813	449410.59
3758988.17 14.02218		
449414.46 3758988.17	13.62211	449418.33
3/58988.1/ 13.09691	12 ((02)	440406 07
449422.20 3758988.17	12.66922	449426.07
3/58988.1/ 12.34596	11 07054	440422 01
449429.94 3/58988.1/	11.97954	449433.81
3/58988.1/ 11.65913	11 26640	
449437.08 3738988.17	11.36640	449441.55
	10 92962	110269 02
449445.42 5/56566.1/ 2756662 21 22 17646	10.0000	449500.02
1/19371 89 3759002 21	21 52616	119375 76
3759002 21 20 95238	21.92010	449575.70
AA9379 63 3759002 21	20 40091	119383 50
3759002.21 18.83645	20.40091	
449387.37 3759002.21	18,27354	449391.24
3759002.21 17.00066	2012/331	
449395.11 3759002.21	16.49102	449398.98
3759002.21 16.00166		
449402.85 3759002.21	15.15820	449406.72
3759002.21 14.72473		
449410.59 3759002.21	13.97807	449414.46
3759002.21 13.58628		
449418.33 3759002.21	13.09422	449422.20
3759002.21 12.75677		
449426.07 3759002.21	12.35492	449429.94
3759002.21 11.98844		
449433.81 3759002.21	11.68737	449437.68
3759002.21 11.38246		
449441.55 3759002.21	11.10420	449445.42
3759002.21 10.85513		
449368.02 3759016.25	22.24676	449371.89
3759016.25 21.60528		
449375.76 3759016.25	21.01474	449379.63
3759016.25 20.45799		
449383.50 3759016.25	19.77062	449387.37
3759016.25 18.24498	47 40500	
449391.24 3759016.25	17.68502	449395.11
3/59016.25 16.45706		
449398.98 3759016.25	15.96545	449402.85
3/59016.25 15.48820	14 (9020	440410 50
449406./2 3/59016.25	14.68020	449410.59
3/59010.25 14.25418		

59016.25	13.56371	449418.33
6		
59016.25	12.75543	449426.07
1		
59016.25	12.05506	449433.81
6		
59016.25	11.41763	449441.55
1		
59016.25	10.86571	449368.02
5		
19191 ***	*** C:\LAKES\AERMOD	VIEW\14172 HRA\NO2\NO2.ISC
***	11/11/21	
6216 ***	***	
***	12:13:28	
	59016.25 6 59016.25 1 59016.25 6 59016.25 1 59016.25 5 19191 *** *** 6216 ***	59016.25 13.56371 6 59016.25 12.75543 1 59016.25 12.05506 6 59016.25 11.41763 1 59016.25 10.86571 5 19191 *** *** C:\LAKES\AERMOD *** 11/11/21 6216 *** *** *** 12:13:28

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

	*** T	HE	1ST	-HIGHEST	MAX I	DAILY 1-HF	AVEF	RAGE	CONCENT	[RA]	TION	VALUES	AVERAGED
		TLANS	, 10	K JOOKEL		INCLUE	ING S	SOURC	E(S):		L00000	91,	L0000002
ر	L00000	903	ر	L0000004	ر	L0000005	ر	1000	0008		1 00000	20	1 0000010
,	L00000	)11	ر	L00000012	ر ر	L0000013	ر ر	L000	0000	,	LOODOOR	, <i>E</i>	10000010
	1 0 0 0 0 0	10		L0000014	ر	L0000015	ر	L000	0016	ر	L000001	L7,	L0000018
ر	L00006	19	ر	L0000020	ر ,	L0000021	ر ۱	L000	0024	,	L000002	25 ,	L0000026
,					,		,			,		,	

# \*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF NO2 IN MICROGRAMS/M\*\*3

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M) C	ONC		
449371.89		21.01284	449375.76
3759030.29 20.	42097		
449379.63	3759030.29	19.87525	449383.50
3759030.29 18.	39819		
449387.37	3759030.29	17.80914	449391.24
3759030.29 16.	80667		
449395.11	3759030.29	16.28880	449398.98
3759030.29 15.4	47985		
449402.85	3759030.29	14.99446	449406.72
3759030.29 14.	34597		
449410.59	3759030.29	13.91207	449414.46

3759030.29 13.44103		
449418.33 3759030.29	13.07844	449422.20
3759030.29 12.74353		
449426.07 3759030.29	12.35706	449429.94
3759030.29 12.05063		
449433.81 3759030.29	11.70258	449437.68
3759030.29 11.42016		
449441.55 3759030.29	11.12653	449445.42
3759030.29 10.86896		
449368.02 3759044.33	21.09154	449371.89
3759044.33 20.23573		
449375.76 3759044.33	19.46344	449379.63
3759044.33 18.79338		
449383.50 3759044.33	17.87145	449387.37
3759044.33 17.26092		
449391.24 3759044.33	16.46980	449395.11
3759044.33 15.92717		
449398.98 3759044.33	15.24170	449402.85
3759044.33 14.74960		
449406.72 3759044.33	14.24110	449410.59
3759044.33 13.81077		
449414.46 3759044.33	13.41712	449418.33
3759044.33 13.00922		
449422.20 3759044.33	12.67038	449426.07
3759044.33 12.34892		
449429.94 3759044.33	11.99562	449433.81
3759044.33 11.70136		
449437.68 3759044.33	11.42015	449441.55
3759044.33 11.12878		
449445.42 3759044.33	10.86986	
★ *** AERMOD - VERSION 19191 ***	*** C:\LAKES\AERMOD V	IEW\14172 HRA\NO2\NO2.ISC
***	11/11/21	
*** AERMET - VERSION 16216 ***	***	
***	12:13:28	
	PAGE 18	
*** MODELOPTs: RegDFAULT CONC	ELEV URBAN ADJ_U*	
*** THE SUMM	ARY OF MAXIMUM 1ST-HI	GHEST MAX DAILY 1-HR
RESULTS AVERAGED OVER 5 YEARS **	*	
**	LUNC OF NUZ I	
17 T		

NETWORK GROUP ID AVERAGE CONC RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID 

ALL	1ST HIGHEST VALUE	IS	22.24676	AT (	449368.02,	3759016.25,
199.00,	2ND HIGHEST VALUE	IS	22.17049	AT (	449368.02,	3759002.21,
198.53,	3RD HIGHEST VALUE	DC IS	21.68765	AT (	449368.02,	3759030.29,
198.53,	198.53, 0.00)	DC TS	21 60528	лт (	110371 80	3759016 25
199.00,	199.00, 0.00)	DC	21.00528	AI (	449571.09,	5759010.25,
108 00	5TH HIGHEST VALUE	IS	21.55934	AT (	449368.02,	3758960.09,
198.00,	6TH HIGHEST VALUE	IS	21.52616	AT (	449371.89,	3759002.21,
198.53,	198.53, 0.00) 7TH HIGHEST VALUE	DC TS	21.36812	ΔΤ (	449368.02.	3758974.13.
198.00,	198.00, 0.00)	DC				575657 (125)
198.06.	8TH HIGHEST VALUE 198.06. 0.00)	IS DC	21.26148	AT (	449368.02,	3758988.17,
	9TH HIGHEST VALUE	IS	21.09154	AT (	449368.02,	3759044.33,
198.07,	198.07, 0.00) 10TH HIGHEST VALUE	DC IS	21.01474	AT (	449375.76,	3759016.25,
199.00,	199.00, 0.00)	DC		,	2	,
*** REC	$ \begin{array}{llllllllllllllllllllllllllllllllllll$	GRIDCART				
	DC =	DISCCART				
<b>▲</b> *** AE	DP =   RMOD - VERSION 191	DISCPOLR 91 ***	*** C:\LA	KES\A	ERMOD VIEW\1	4172 HRA\NO2\NO2.ISC
***		**	11/11/21			
*** AER	MET - VERSION 1621 ***	0 ***	12:13:28			
*** MOD	ELOPTs: RegDFAUL	T CONC	PAGE 19 ELEV URB	an ai	DJ_U*	
*** Mes	sage Summary : AERM	OD Model	Execution	***		
	Summary of Tota	l Messag	es	-		

A Total of 0 Fatal Error Message(s)

- A Total of 2 Warning Message(s)
- A Total of 1638 Informational Message(s)
- A Total of 43848 Hours Were Processed
- A Total of 1039 Calm Hours Identified
- A Total of 599 Missing Hours Identified ( 1.37 Percent)
\*\*\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*\*\* \*\*\* NONE \*\*\* \*\*\*\*\*\*\* \*\*\*\*\*\* WARNING MESSAGES ME W186 130 MEOPEN: THRESH 1MIN 1-min ASOS wind speed threshold used 0.50 ME W187 MEOPEN: ADJ U\* Option for Stable Low Winds used in AERMET 130 \*\*\*\*\*\* \*\*\* AERMOD Finishes Successfully \*\*\* \*\* Lakes Environmental AERMOD MPI \*\* \*\* \*\* AERMOD INPUT PRODUCED BY: \*\* AERMOD VIEW VER. 10.0.1 \*\* LAKES ENVIRONMENTAL SOFTWARE INC. \*\* DATE: 11/11/2021 \*\* FILE: C:\LAKES\AERMOD VIEW\14172 HRA\PM10\PM10.ADI \*\* \*\* \*\* \*\* AERMOD CONTROL PATHWAY \*\* \*\* CO STARTING TITLEONE C:\LAKES\AERMOD VIEW\14172 HRA\PM10\PM10.ISC MODELOPT DFAULT CONC AVERTIME 24 ANNUAL URBANOPT 2189641 POLLUTID PM 10 RUNORNOT RUN ERRORFIL PM10.ERR CO FINISHED \*\* \*\* AERMOD SOURCE PATHWAY \*\* \*\* SO STARTING

** **	SOURCE LOCAT SOURCE ID -	ION ** TYPE - X C	OORD Y	COORD.	**			
** **	LINE SOURCE	REPRESENTE	D BY ADJA	CENT VOI	_UME	SOURCES		
**	LINE VULUME	SOURCE ID	= SLINEI					
**	DESCRICE I-I	J FREEWAT						
**	I ENGTH OF ST	DF = 46 00						
**	CONFIGURATIO	N = ADJACF	NT					
**	EMISSION RAT	E = 0.1937	26					
**	VERTICAL DIM	$1 \in 100 = 6$	.99					
**	SZINIT = 3.2	25						
**	NODES = $2$							
**	449288.372,	3758373.92	4, 188.51	, 3.49,	21.4	0		
**	449298.585,	3759554.57	8, 201.92	, 3.49,	21.4	0		
**								
	LOCATION L00	00001	VOLUME	449288.5	571 3	758396.923	188.77	
	LOCATION L00	00002	VOLUME	449288.9	969 3	758442.921	189.29	
	LOCATION LOO	00003	VOLUME	449289.3	36/ 3	758488.920	189.82	
	LOCATION LOO	00004		449289.	/65 3	758534.918	190.34	
	LOCATION LOO	000005		449290.	L63 3	758580.916	190.86	
	LOCATION LOO	00000		449290.	201 2.	758626.914	191.38	
	LOCATION LOO	00007		449290.5	256 J	75072.915	191.91	
	LOCATION LOO	00008		1/0201	757 3	758767 909	192.45	
	LOCATION LOO	000000		449292.1	152 3	758810,908	193.47	
	LOCATION LOO	00010		449292	560 3	758856.906	194.00	
	LOCATION LOO	00012	VOLUME	449292.9	948 3	758902.904	194.52	
	LOCATION LOO	00013	VOLUME	449293.3	346 3	758948.902	195.04	
	LOCATION L00	00014	VOLUME	449293.7	744 3	758994.901	195.56	
	LOCATION L00	00015	VOLUME	449294.1	142 3	759040.899	196.09	
	LOCATION L00	00016	VOLUME	449294.5	540 3	759086.897	196.61	
	LOCATION L00	00017	VOLUME	449294.9	938 3	759132.895	197.13	
	LOCATION L00	00018	VOLUME	449295.3	335 3	759178.894	197.65	
	LOCATION L00	00019	VOLUME	449295.7	733 3	759224.892	198.18	
	LOCATION L00	00020	VOLUME	449296.1	131 3	759270.890	198.70	
	LOCATION L00	00021	VOLUME	449296.5	529 3	759316.889	199.22	
	LOCATION LOO	00022	VOLUME	449296.9	927 3	759362.887	199.74	
	LOCATION LOO	00023	VOLUME	449297.:	325 3	759408.885	200.27	
	LOCATION LOO	00024		449297.7	/23 3 121 2	759454.883	200.79	
	LOCATION LOO	00025		449298.	LZI 3	759500.882	201.31	
**	LUCATION LOO	VOLUME SOU	VULUME	449298.3	519.2	/59540.880	201.85	
**	SOURCE DARAM	VOLUME 300 NETERS **	NCE ID -	SLINEI				
**			= SLTNF1					
	SRCPARAM I 00	000001	0.007451	2	49	21.40	3.25	
	SRCPARAM LOO	00002	0.007451	3	.49	21.40	3.25	
	SRCPARAM L00	00003	0.007451	3.	.49	21.40	3.25	
	SRCPARAM L00	00004	0.007451	3.	.49	21.40	3.25	
	SRCPARAM L00	00005	0.007451	3.	.49	21.40	3.25	

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SRCPARAM L000006
                                  3.49
                                         21.40
                                                   3.25
                      0.007451
  SRCPARAM L0000007
                      0.007451
                                  3.49
                                         21.40
                                                   3.25
                                         21.40
                                                   3.25
  SRCPARAM L000008
                      0.007451
                                  3.49
                                  3.49
  SRCPARAM L0000009
                                         21.40
                      0.007451
                                                   3.25
  SRCPARAM L0000010
                      0.007451
                                  3.49
                                         21.40
                                                   3.25
  SRCPARAM L0000011
                                  3.49
                                         21.40
                                                   3.25
                      0.007451
  SRCPARAM L0000012
                      0.007451
                                  3.49
                                         21.40
                                                   3.25
  SRCPARAM L0000013
                      0.007451
                                  3.49
                                         21.40
                                                   3.25
                                  3.49
                                         21.40
  SRCPARAM L0000014
                      0.007451
                                                   3.25
  SRCPARAM L0000015
                      0.007451
                                  3.49
                                         21.40
                                                   3.25
  SRCPARAM L0000016
                                  3.49
                                         21.40
                                                   3.25
                      0.007451
  SRCPARAM L0000017
                      0.007451
                                  3.49
                                         21.40
                                                   3.25
  SRCPARAM L0000018
                      0.007451
                                  3.49
                                         21.40
                                                   3.25
  SRCPARAM L0000019
                      0.007451
                                  3.49
                                         21.40
                                                   3.25
  SRCPARAM L0000020
                      0.007451
                                  3.49
                                         21.40
                                                   3.25
  SRCPARAM L0000021
                                  3.49
                                         21.40
                                                   3.25
                      0.007451
  SRCPARAM L0000022
                      0.007451
                                  3.49
                                         21.40
                                                   3.25
  SRCPARAM L0000023
                      0.007451
                                  3.49
                                         21.40
                                                   3.25
  SRCPARAM L0000024
                      0.007451
                                  3.49
                                         21.40
                                                   3.25
  SRCPARAM L0000025
                      0.007451
                                  3.49
                                         21.40
                                                   3.25
  SRCPARAM L0000026
                                  3.49
                      0.007451
                                         21.40
                                                   3.25
** _____
  URBANSRC ALL
  SRCGROUP ALL
SO FINISHED
**
** AERMOD RECEPTOR PATHWAY
**
**
RE STARTING
  INCLUDED PM10.ROU
RE FINISHED
**
** AERMOD METEOROLOGY PATHWAY
**
**
ME STARTING
  SURFFILE ..\KRAL_V9_ADJU\KRAL_V9.SFC
  PROFFILE ..\KRAL_V9_ADJU\KRAL_V9.PFL
  SURFDATA 3171 2012
  UAIRDATA 3190 2012
  PROFBASE 245.0 METERS
ME FINISHED
**
** AERMOD OUTPUT PATHWAY
```

\*\* \*\* OU STARTING **RECTABLE ALLAVE 1ST RECTABLE 24 1ST \*\*** AUTO-GENERATED PLOTFILES PLOTFILE 24 ALL 1ST PM10.AD\24H1GALL.PLT 31 ANNUAL ALL PM10.AD\AN00GALL.PLT 32 PLOTFILE SUMMFILE PM10.SUM OU FINISHED \*\*\* Message Summary For AERMOD Model Setup \*\*\* ----- Summary of Total Messages ------A Total of 0 Fatal Error Message(s) A Total of 2 Warning Message(s) A Total of 0 Informational Message(s) \*\*\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*\*\* \*\*\* NONE \*\*\* \*\*\*\*\*\* \*\*\*\*\*\* WARNING MESSAGES ME W186 130 MEOPEN: THRESH 1MIN 1-min ASOS wind speed threshold used 0.50 ME W187 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET 130 \*\*\* SETUP Finishes Successfully \*\*\* ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 \*\*\* 11/11/21 HRA\PM10\PM10.ISC \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* \*\*\* 11:46:36 PAGE 1 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ U\* \*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\* - -

\*\*Model Is Setup For Calculation of Average CONCentration Values.

-- DEPOSITION LOGIC --\*\*NO GAS DEPOSITION Data Provided. \*\*NO PARTICLE DEPOSITION Data Provided. \*\*Model Uses NO DRY DEPLETION. DRYDPLT = F \*\*Model Uses NO WET DEPLETION. WETDPLT = F \*\*Model Uses URBAN Dispersion Algorithm for the SBL for 26 Source(s), for Total of 1 Urban Area(s): Urban Population = 2189641.0 ; Urban Roughness Length = 1.000 m \*\*Model Uses Regulatory DEFAULT Options: 1. Stack-tip Downwash. 2. Model Accounts for ELEVated Terrain Effects. 3. Use Calms Processing Routine. 4. Use Missing Data Processing Routine. 5. No Exponential Decay. 6. Urban Roughness Length of 1.0 Meter Assumed. \*\*Other Options Specified: ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET CCVR Sub - Meteorological data includes CCVR substitutions TEMP\_Sub - Meteorological data includes TEMP substitutions \*\*Model Assumes No FLAGPOLE Receptor Heights. \*\*The User Specified a Pollutant Type of: PM\_10 \*\*Model Calculates 1 Short Term Average(s) of: 24-HR and Calculates ANNUAL Averages \*\*This Run Includes: 26 Source(s); 1 Source Group(s); and 441 Receptor(s) with: 0 POINT(s), including 0 POINTHOR(s) 0 POINTCAP(s) and 26 VOLUME source(s) and: Ø AREA type source(s) and: and: 0 LINE source(s) and: 0 RLINE/RLINEXT source(s) and: 0 OPENPIT source(s) and: 0 BUOYANT LINE source(s) with 0 line(s) \*\*Model Set To Continue RUNning After the Setup Testing.

\*\*The AERMET Input Meteorological Data Version Date: 16216

\*\*Output Options Selected: Model Outputs Tables of ANNUAL Averages by Receptor

Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword) Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword) Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword) \*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours m for Missing Hours b for Both Calm and Missing Hours Base Elev. for Pot. Temp. Profile (m MSL) = \*\*Misc. Inputs: 245.00 ; Decay ; Rot. Angle = Coef. = 0.000 0.0 Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+07 Output Units = MICROGRAMS/M\*\*3 \*\*Approximate Storage Requirements of Model = 3.6 MB of RAM. \*\*Input Runstream File: aermod.inp \*\*Output Print File: aermod.out \*\*Detailed Error/Message File: PM10.ERR \*\*File for Summary of Results: PM10.SUM ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 HRA\PM10\PM10.ISC \*\*\* 11/11/21 \*\*\* AERMET - VERSION \*\*\* 16216 \*\*\* \*\*\* 11:46:36 PAGE 2 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ U\* \*\*\* VOLUME SOURCE DATA \*\*\* NUMBER EMISSION RATE BASE RELEASE INIT. INIT. URBAN EMISSION RATE (GRAMS/SEC) Х Υ ELEV. SOURCE PART. HEIGHT SY SOURCE SCALAR VARY SZ CATS. (METERS) (METERS) (METERS) (METERS) (METERS) ID BY (METERS) - - - - -- - - -. . . . . . . . . . . . . . . . - - - - - - - -

L0000001	0	0.74510E-02	449288.6 3758396.9	188.8	3.49	21.40
3.25 YES						
L000002	0	0.74510E-02	449289.0 3758442.9	189.3	3.49	21.40
3.25 YES						
L000003	0	0.74510E-02	449289.4 3758488.9	189.8	3.49	21.40
3.25 YES						
L0000004	0	0.74510E-02	449289.8 3758534.9	190.3	3.49	21.40
3.25 YES						
L0000005	0	0.74510E-02	449290.2 3758580.9	190.9	3.49	21.40
3.25 YES						
10000006	0	0.74510E-02	449290.6 3758626.9	191.4	3,49	21.40
3.25 YES	· ·	•••				
10000007	a	0 74510F-02	AA9291 0 3758672 9	191 9	3 49	21 40
3 25 VES	0	0.745101 02	++)2)1.0 5/500/2.5	191.9	5.45	21.40
1000000	Q	0 71510E-02	110201 1 3758718 0	102 /	3 10	21 10
	0	0.745101-02	449291.4 3738718.9	192.4	5.49	21.40
	٥	0 745105 00	440201 8 2758764 0	102 0	2 40	21 40
	0	0.74510E-02	449291.8 3738764.9	193.0	5.49	21.40
3.25 YES	0	0 745405 00	440202 2 2750010 0	102 5	2 40	21 40
T000010	0	0.74510E-02	449292.2 3/58810.9	193.5	3.49	21.40
3.25 YES	-					
L0000011	0	0.74510E-02	449292.5 3758856.9	194.0	3.49	21.40
3.25 YES						
L0000012	0	0.74510E-02	449292.9 3758902.9	194.5	3.49	21.40
3.25 YES						
L0000013	0	0.74510E-02	449293.3 3758948.9	195.0	3.49	21.40
3.25 YES						
L0000014	0	0.74510E-02	449293.7 3758994.9	195.6	3.49	21.40
3.25 YES						
L0000015	0	0.74510E-02	449294.1 3759040.9	196.1	3.49	21.40
3.25 YES						
L0000016	0	0.74510E-02	449294.5 3759086.9	196.6	3.49	21.40
3.25 YES						
L0000017	0	0.74510E-02	449294.9 3759132.9	197.1	3.49	21.40
3.25 YES						
L0000018	0	0.74510E-02	449295.3 3759178.9	197.7	3.49	21.40
3.25 YES	-					
10000019	0	0.74510F-02	449295.7 3759224.9	198.2	3.49	21.40
3.25 YES	· ·	•••				
1000020	Q	0.74510F-02	449296 1 3759270 9	198.7	3,49	21.40
3.25 YES	Ū	017 19202 02		20017	5115	
10000021	a	0 74510F-02	449296 5 3759316 9	199 2	3 49	21 40
3 25 VES	Ũ	01, 19101 02	11525015 575551015	19912	5.15	21.10
10000022	a	0 71510E-02	119296 9 3759362 9	100 7	3 19	21 10
2 25 VEC	0	0.745102-02	449290.9 3799902.9	199.7	5.45	21.40
10000022	0	0 71510E 00	110207 2 2750109 0	200 2	2 10	21 10
	U	0.147105-02		200.5	2.47	21.40
	0	0 745105 00	440207 7 2750454 0	200 0	2 40	21 40
	Ø	0./4010E-02	443231.1 3139434.9	200.0	3.49	21.40
	0	0 745105 00	440308 1 3750500 0	201 2	2 40	21 40
	0	0./4510E-02	449298.1 3/59500.9	201.3	3.49	21.40
3.25 YES						

L0000026 0 0.74510E-02 449298.5 3759546.9 201.8 3.49 21.40 3.25 YES ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 \*\*\* 11/11/21 HRA\PM10\PM10.ISC \*\*\* \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* 11:46:36 PAGE 3 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ U\* \*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\* SOURCE IDs SRCGROUP ID ---------LU000001 , L0000002 , L0000003 , L0000007 , L0000008 ALL , L0000004 L0000001 , L0000005 , L0000006 , L0000013 L0000009 , L0000010 , L0000011 , L0000012 , ,L0000015 ,L0000016 , L0000014 L0000017 , L0000018 , L0000019 , L0000020 , L0000021 • , L0000024 L0000022 , L0000023 ر , L0000026 L0000025 ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 \*\*\* 11/11/21 HRA\PM10\PM10.ISC \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* \*\*\* 11:46:36 PAGE 4 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ U\* \*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\* URBAN ID URBAN POP SOURCE IDs \_ 2189641. L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 ر L0000008 ر , L0000010 , L0000011 , L0000012 , L0000013 L0000009 , L0000014 , L0000015 , L0000016 ,

L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 ,L0000026 , ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 \*\*\* 11/11/21 HRA\PM10\PM10.ISC \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* \*\*\* 11:46:36 PAGE 5 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\* \*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\* (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG) (METERS) 0.0); ( 449371.9, (449368.0, 3758763.5, 192.6, 195.0, 3758763.5, 192.2, 195.0, 0.0); 0.0. 

(4493/5.8, 3/58/63.5, 191.8)	195.0,	0.0);	( 4493/9.6,
3758763.5, 191.4, 195.0,	0.0);		
(449383.5, 3758763.5, 191.2)	195.0,	0.0);	( 449387.4,
3758763.5, 190.9, 195.0,	0.0);		
(449391.2, 3758763.5, 190.6)	190.6,	0.0);	( 449395.1,
3758763.5, 190.4, 190.4,	0.0);		
( 449399.0, 3758763.5, 190.1 <sub>.</sub>	190.1,	0.0);	( 449402.8,
3758763.5, 189.9, 189.9,	0.0);		
(449406.7, 3758763.5, 189.6)	189.6,	0.0);	( 449410.6,
3758763.5, 189.4, 189.4,	0.0);		
(449414.5, 3758763.5, 189.3)	189.3,	0.0);	( 449418.3,
3758763.5, 189.1, 189.1,	0.0);		
(449422.2, 3758763.5, 189.0)	189.0,	0.0);	( 449426.1,
3758763.5, 188.9, 188.9,	0.0);		
(449429.9, 3758763.5, 188.7)	188.7,	0.0);	( 449433.8,
3758763.5, 188.6, 188.6,	0.0);		
(449437.7, 3758763.5, 188.5 <sub>)</sub>	188.5,	0.0);	( 449441.5,
3758763.5, 188.4, 188.4,	0.0);		
(449445.4, 3758763.5, 188.3)	188.3,	0.0);	( 449368.0,
3758777.6, 192.5, 195.0,	0.0);		
(449371.9, 3758777.6, 192.0)	195.0,	0.0);	( 449375.8,
3758777.6, 191.5, 195.0,	0.0);		
(449379.6, 3758777.6, 191.0)	195.0,	0.0);	( 449383.5,
3758777.6, 190.8, 195.0,	0.0);		
(449387.4, 3758777.6, 190.5)	195.0,	0.0);	( 449391.2,
3758777.6, 190.3, 195.0,	0.0);		
(449395.1, 3758777.6, 190.0)	195.0,	0.0);	( 449399.0,
3758777.6, 189.7, 195.0,	0.0);		
(449402.8, 3758777.6, 189.5 <sub>)</sub>	195.0,	0.0);	( 449406.7,
3758777.6, 189.2, 195.0,	0.0);		
(449410.6, 3758777.6, 189.0)	189.0,	0.0);	( 449414.5,

3758777.6,	188.9,	188.9,	0.0);		
( 449418	.3, 3758777.	6, 188.8,	188.8,	0.0);	( 449422.2,
3758777.6,	188.6,	188.6,	0.0);		
( 449426	.1, 3758777.	6, 188.5,	188.5,	0.0);	( 449429.9,
3758777.6,	188.4,	188.4,	0.0);		
( 449433	.8, 3758777.	6, 188.2,	188.2,	0.0);	( 449437.7,
3758777.6,	188.1,	188.1,	0.0);		
( 449441	.5, 3758777.	6, 188.0,	188.0,	0.0);	( 449445.4,
3758777.6,	188.0,	188.0,	0.0);		
( 449368	.0, 3758791.	6, 192.6,	192.6,	0.0);	( 449371.9,
3758791.6,	192.3,	195.0,	0.0);	, -	
( 449375	.8, 3758791.	6, 191.9,	195.0,	0.0);	( 449379.6,
3758791.6,	191.5,	195.0,	0.0);	, -	,
( 449383	.5, 3758791.	6, 191.2,	195.0,	0.0);	( 449387.4,
3758791.6,	191.0,	191.0,	0.0);	,,,	, j
( 449391	.2, 3758791.	6, 190.7,	190.7,	0.0);	( 449395.1,
3758791.6.	190.5.	190.5.	0.0);	,,,	
( 449399	.0. 3758791.	6. 190.2.	190.2.	0.0);	( 449402.8.
3758791.6.	190.0.	190.0.	0.0):		(
( 449406	.7. 3758791.	6. 189.7.	189.7.	0.0):	( 449410.6.
3758791.6.	189.5.	189.5.	0.0):	,	(
( 449414	5. 3758791	6. <u>189.3</u> .	189.3.	0.0):	( 449418.3.
3758791.6.	189.2.	189.2.	0.0):	0.075	( 119 12019)
( 449422	2. 3758791	6. <u>189.1</u> .	189.1.	0.0):	( 449426.1.
3758791 6	189 0	189 0	0 0)·	0.0/5	( 113 12012)
( 449429	9 3758791	188 8	188 8	0 0)·	( 449433 8
3758791 6	188 7	188 7	0 0).	0.0),	( ++)+)),0,
<i>( 119137</i>	7 3758791	188 G	188 6	0 0)·	( 119111 5
3758791 6	188 5	188 5	0 0)·	0.0),	( ++)++1.),
( AAQAAS	100.J, / 3758791	188 /	188 /	0 0).	( 119368 0
3758805 6	192 8	192 8	0 0)·	0.0),	( ++))00.0,
/ //Q371	9 3758805	192.0, 6 192.5	192 5	0 0).	( 119375 8
2750005 6	102 2	107 7	0.0).	0.0),	( ++))/).0,
/ //0270	192.2, 6 2750005	192.2, c 102 0	102 0	0 0).	( 110202 5
27E000E C	101 7	0, 192.0, 101 7	192.0,	0.0),	( 449505.5,
, 0, CUOOC/C	191./, 1 0750005	191./, c 101 c	101 E	0 0).	( 110201 2
	.4, 3/38803.	0, 191.5, 101 2	191.5,	0.0);	( 449391.2,
3/38803.0,	191.2,	191.2,	0.0);	0 0).	( 440200 0
( 449395	.1, 3/58805.	b, 190.9,	190.9,	0.0);	( 449399.0,
3/58805.6,	190.7,	190./,	0.0);	0.0	( 440406 7
( 449402	.8, 3/58805.	6, 190.4,	190.4,	0.0);	( 449406.7,
3/58805.6,	190.2,	190.2,	0.0);	o o`	
( 449410	.6, 3/58805.	6, 189.9,	189.9,	0.0);	( 449414.5,
3758805.6,	189.8,	189.8,	0.0);		
( 449418	.3, 3758805.	6, 189.7,	189.7,	0.0);	( 449422.2,
3/58805.6,	189.6,	189.6,	0.0);		<b>,</b>
( 449426	.1, 3758805.	6, 189.4,	189.4,	0.0);	( 449429.9,
3758805.6,	189.3,	189.3,	0.0);		
( 449433	.8, 3758805.	6, 189.2,	189.2,	0.0);	( 449437.7,
3758805.6,	189.0,	189.0,	0.0);		
( 449441	.5, 3758805.	6, 188.9,	188.9,	0.0);	( 449445.4,

3758805.6, 188.8, 188.8, 0.0); (449368.0, 3758819.7, 192.8, 192.8, 0.0); ( 449371.9, 3758819.7, 192.5, 192.5, 0.0); (449375.8, 3758819.7, 192.2, 192.2, 0.0); (449379.6, 3758819.7, 192.0, 192.0, 0.0); (449383.5, 3758819.7, 191.7, 191.7, 0.0); (449387.4, 0.0); 3758819.7, 191.5, 191.5, ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 \*\*\* HRA\PM10\PM10.ISC 11/11/21 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* \*\*\* 11:46:36

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)

(METERS)

$\begin{array}{cccccccccccccccccccccccccccccccccccc$	( 449391	.2, 3758819.	7, 191.2,	191.2,	0.0);	( 449395.1,
$ \begin{pmatrix} 449399.0, 3758819.7, 190.7, 190.7, 0.0 \end{pmatrix}; (449402.8, 3758819.7, 190.4, 190.2, 190.2, 0.0 \end{pmatrix}; (449410.6, 3758819.7, 190.0, 190.0, 0.0 ); (449414.5, 3758819.7, 189.8, 189.8, 0.0 ); (449418.3, 3758819.7, 189.7, 0.0 ); (449422.2, 3758819.7, 189.6, 189.6, 0.0 ); (449422.1, 3758819.7, 189.5, 0.0 ); (449422.2, 3758819.7, 189.5, 0.0 ); (449429.9, 3758819.7, 189.5, 0.0 ); (449429.9, 3758819.7, 189.5, 0.0 ); (449429.9, 3758819.7, 189.1, 189.1, 0.0 ); (449433.8, 3758819.7, 189.2, 189.2, 0.0 ); (449437.7, 3758819.7, 189.1, 189.1, 0.0 ); (449436.0, 3758819.7, 188.9, 0.0 ); (449445.4, 3758819.7, 188.8, 188.8, 0.0 ); (449368.0, 3758833.7, 192.8, 0.0 ); (449371.9, 3758833.7, 192.5, 192.5, 0.0 ); (449379.6, 3758833.7, 192.6, 192.0, 0.0 ); (449375.8, 3758833.7, 191.7, 191.7, 0.0 ); (449374.3, 3758833.7, 191.5, 191.5, 0.0 ); (449395.1, 3758833.7, 191.5, 191.5, 0.0 ); (449399.0, 3758833.7, 190.7, 190.7, 0.0 ); (449395.1, 3758833.7, 190.7, 0.0 ); (449406.7, 3758833.7, 190.2, 0.0 ); (449402.8, 3758833.7, 190.4, 190.4, 0.0 ); (449406.7, 3758833.7, 190.2, 0.0 ); (449404.8, 3758833.7, 190.2, 0.0 ); (449404.8, 3758833.7, 190.4, 190.4, 0.0 ); (449406.7, 3758833.7, 190.2, 0.0 ); (449404.8, 3758833.7, 190.4, 190.4, 0.0 ); (449406.7, 3758833.7, 190.2, 0.0 ); (449404.8, 3758833.7, 190.4, 190.4, 0.0 ); (449404.7, 3758833.7, 190.2, 0.0 ); (449404.8, 3758833.7, 190.4, 190.4, 0.0 ); (449404.7, 3758833.7, 190.4, 190.4, 0.0 ); (449404.7, 3758833.7, 190.4, 190.4, 0.0 ); (449404.7, 3758833.7, 189.8, 0.0 ); (449414.5, 3758833.7, 189.6, 189.7, 189.7, 0.0 ); (449414.5, 3758833.7, 189.6, 0.0 ); (449422.9, 3758833.7, 189.5, 0.0 ); (449422.9, 3758833.7, 189.6, 0.0 ); (449420.9, 3758833.7, 189.5, 0.0 ); (449420.9, 3758833.7, 189.5, 0.0 ); (449420.9, 3758833.7, 189.5, 0.0 ); (449420.9, 3758833.7, 189.5, 0.0 ); (449420.9, 3758833.7, 189.5, 0.0 ); (449420.9, 3758833.7, 189.6, 0.0 ); (449420.9, 3758833.7, 189.6, 0.0 ); (449420.9, 3758833.7, 189.5, 0.0 ); (449420.9, 3758833.7, 189.6, 0.0 ); (449420.9, 3758833.7, 189.5, 0.0 ); (449420.9, 3758833.7, 189.5, 0.$	3758819.7,	191.0,	191.0,	0.0);		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	( 449399	.0, 3758819.	7, 190.7,	190.7,	0.0);	( 449402.8,
(449406.7, 3758819.7, 190.2, 190.2, 0.0); (449410.6, 3758819.7, 190.0, 190.0, 0.0); (449414.5, 3758819.7, 189.8, 189.8, 0.0); (449418.3, 3758819.7, 189.7, 189.7, 0.0); (449422.2, 3758819.7, 189.6, 189.6, 0.0); (449426.1, 3758819.7, 189.5, 189.5, 0.0); (449429.9, 3758819.7, 189.3, 189.3, 0.0); (449433.8, 3758819.7, 189.2, 189.2, 0.0); (449437.7, 3758819.7, 189.1, 189.1, 0.0); (449441.5, 3758819.7, 188.9, 188.9, 0.0); (449445.4, 3758819.7, 188.8, 188.8, 0.0); (449368.0, 3758833.7, 192.8, 192.8, 0.0); (449371.9, 3758833.7, 192.5, 192.5, 0.0); (449375.8, 3758833.7, 192.2, 192.2, 0.0); (449378.4, 3758833.7, 192.0, 192.0, 0.0); (449383.5, 3758833.7, 191.7, 191.7, 0.0); (449387.4, 3758833.7, 191.5, 191.5, 0.0); (449391.2, 3758833.7, 191.2, 191.2, 0.0); (449395.1, 3758833.7, 190.4, 190.4, 0.0); (449399.0, 3758833.7, 190.2, 190.2, 0.0); (449402.8, 3758833.7, 190.4, 190.4, 0.0); (449406.7, 3758833.7, 190.2, 190.2, 0.0); (449410.6, 3758833.7, 190.4, 190.4, 0.0); (449414.5, 3758833.7, 190.2, 190.2, 0.0); (449418.3, 3758833.7, 190.4, 190.4, 0.0); (449414.5, 3758833.7, 189.8, 189.8, 0.0); (449418.3, 3758833.7, 189.7, 189.7, 0.0); (449422.2, 3758833.7, 189.6, 189.6, 0.0); (449420.9, 20, 20, 0.0); (449422.2, 3758833.7, 189.6, 189.6, 0.0);	3758819.7,	190.4,	190.4,	0.0);		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	( 449406	.7, 3758819.	7, 190.2,	190.2,	0.0);	( 449410.6,
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$	( 449414	.5, 3758819.	7, 189.8,	189.8,	0.0);	( 449418.3,
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$	( 449422	.2, 3758819.	7, 189.6,	189.6,	0.0);	( 449426.1,
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$	( 449429	.9, 3758819.	7, 189.3,	189.3,	0.0);	( 449433.8,
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$	( 449437	.7, 3758819.	7, 189.1,	189.1,	0.0);	( 449441.5,
(449445.4, 3758819.7, 188.8, 188.8, 0.0); $(449368.0, 3758833.7, 192.8, 192.8, 0.0);$ $(449371.9, 3758833.7, 192.5, 192.5, 0.0);$ $(449375.8, 3758833.7, 192.2, 0.0);$ $(449379.6, 3758833.7, 192.0, 192.0, 0.0);$ $(449383.5, 3758833.7, 191.7, 191.7, 0.0);$ $(449387.4, 3758833.7, 191.5, 191.5, 0.0);$ $(449395.1, 3758833.7, 191.0, 191.0, 0.0);$ $(449395.1, 3758833.7, 191.0, 191.0, 0.0);$ $(449399.0, 3758833.7, 190.7, 190.7, 0.0);$ $(449402.8, 3758833.7, 190.4, 190.4, 0.0);$ $(449406.7, 3758833.7, 190.2, 0.0);$ $(449410.6, 3758833.7, 190.4, 190.0, 0.0);$ $(449414.5, 3758833.7, 189.8, 189.8, 0.0);$ $(449418.3, 3758833.7, 189.7, 189.7, 0.0);$ $(449422.2, 3758833.7, 189.6, 189.6, 0.0);$ $(449429.9)$	3758819.7,	188.9,	188.9,	0.0);		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	( 449445	.4, 3758819.	7, 188.8,	188.8,	0.0);	( 449368.0,
(449371.9, 3758833.7, 192.5, 192.5, 0.0); $(449375.8, 3758833.7, 192.2, 192.2, 0.0);$ $(449379.6, 3758833.7, 192.0, 192.0, 0.0);$ $(449387.4, 3758833.7, 191.7, 0.0);$ $(449387.4, 3758833.7, 191.5, 191.5, 0.0);$ $(449391.2, 3758833.7, 191.2, 191.2, 0.0);$ $(449395.1, 3758833.7, 191.0, 191.0, 0.0);$ $(449399.0, 3758833.7, 190.7, 190.7, 0.0);$ $(449402.8, 3758833.7, 190.4, 190.4, 0.0);$ $(449406.7, 3758833.7, 190.2, 190.2, 0.0);$ $(449410.6, 3758833.7, 190.0, 190.0, 0.0);$ $(449414.5, 3758833.7, 189.8, 189.8, 0.0);$ $(449418.3, 3758833.7, 189.7, 189.7, 0.0);$ $(449422.2, 3758833.7, 189.6, 189.6, 0.0);$ $(449429.9)$	3758833.7,	192.8,	192.8,	0.0);		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	( 449371	.9, 3758833.	7, 192.5,	192.5,	0.0);	( 449375.8,
(449379.6, 3758833.7, 192.0, 192.0, 0.0); $(449383.5, 3758833.7, 191.7, 191.7, 0.0);$ $(449387.4, 3758833.7, 191.5, 191.5, 0.0);$ $(449391.2, 3758833.7, 191.2, 191.2, 0.0);$ $(449395.1, 3758833.7, 191.0, 191.0, 0.0);$ $(449399.0, 3758833.7, 190.7, 190.7, 0.0);$ $(449402.8, 3758833.7, 190.4, 190.4, 0.0);$ $(449406.7, 3758833.7, 190.2, 190.2, 0.0);$ $(449410.6, 3758833.7, 190.0, 190.0, 0.0);$ $(449414.5, 3758833.7, 189.8, 189.8, 0.0);$ $(449418.3, 3758833.7, 189.7, 0.0);$ $(449422.2, 3758833.7, 189.6, 189.6, 0.0);$ $(449429.9, 0.0);$ $(449422.9, 0.0);$ $(449426.1, 3758833.7, 189.5, 0.0);$ $(449429.9, 0.0);$ $(449422.9, 0.0);$ $(449429, 0.0);$	3758833.7,	192.2,	192.2,	0.0);		
3758833.7, 191.7, 191.7, 0.0); (449387.4, 3758833.7, 191.5, 191.5, 0.0); (449395.1, 3758833.7, 191.0, 191.0, 0.0); (449395.1, 3758833.7, 191.0, 191.0, 0.0); (449402.8, 3758833.7, 190.4, 190.4, 0.0); (449402.8, 3758833.7, 190.2, 0.0); (449410.6, 3758833.7, 190.0, 190.0, 0.0); (449410.6, 3758833.7, 190.0, 190.0, 0.0); (449418.3, 3758833.7, 189.8, 0.0); (449418.3, 3758833.7, 189.7, 0.0); (449422.2, 3758833.7, 189.6, 189.6, 0.0); (449422.9, 0.0); (449429.9, 0.0); (44	( 449379	.6, 3758833.	7, 192.0,	192.0,	0.0);	( 449383.5,
(449387.4, 3758833.7, 191.5, 191.5, 0.0); (449391.2, 3758833.7, 191.2, 191.2, 0.0); (449395.1, 3758833.7, 191.0, 191.0, 0.0); (449399.0, 3758833.7, 190.7, 190.7, 0.0); (449402.8, 3758833.7, 190.4, 190.4, 0.0); (449406.7, 3758833.7, 190.2, 190.2, 0.0); (449410.6, 3758833.7, 190.0, 190.0, 0.0); (449414.5, 3758833.7, 189.8, 189.8, 0.0); (449418.3, 3758833.7, 189.7, 189.7, 0.0); (449422.2, 3758833.7, 189.6, 189.6, 0.0); (449426.1, 3758833.7, 189.5, 0.0);	3758833.7,	191.7,	191.7,	0.0);		
3758833.7,       191.2,       191.2,       0.0);         (449395.1,       3758833.7,       191.0,       191.0,       0.0);         3758833.7,       190.7,       190.7,       0.0);       (449399.0,         3758833.7,       190.7,       190.4,       190.4,       0.0);       (449406.7,         3758833.7,       190.2,       190.4,       190.4,       0.0);       (449406.7,         3758833.7,       190.2,       0.0);       (449410.6,       3758833.7,       190.0,       190.0,       0.0);       (449414.5,         3758833.7,       189.8,       189.8,       0.0);       (449418.3,       3758833.7,       189.7,       189.7,       0.0);       (449422.2,         3758833.7,       189.6,       189.5,       0.0);       (449422.9,       (449429.9,	( 449387	.4, 3758833.	7, 191.5,	191.5,	0.0);	( 449391.2,
(449395.1, 3758833.7, 191.0, 191.0, 0.0); (449399.0, 3758833.7, 190.7, 190.7, 0.0); (449402.8, 3758833.7, 190.4, 190.4, 0.0); (449406.7, 3758833.7, 190.2, 190.2, 0.0); (449410.6, 3758833.7, 190.0, 190.0, 0.0); (449414.5, 3758833.7, 189.8, 189.8, 0.0); (449418.3, 3758833.7, 189.7, 189.7, 0.0); (449422.2, 3758833.7, 189.6, 189.6, 0.0); (449426.1, 3758833.7, 189.5, 0.0); (449429.9,	3758833.7,	191.2,	191.2,	0.0);		
3758833.7,       190.7,       190.7,       0.0);         (449402.8,       3758833.7,       190.4,       190.4,       0.0);         3758833.7,       190.2,       190.2,       0.0);         (449410.6,       3758833.7,       190.0,       190.0,       0.0);         (449418.3,       3758833.7,       189.8,       0.0);       (449414.5,         3758833.7,       189.8,       189.7,       189.7,       0.0);       (449422.2,         3758833.7,       189.6,       189.5,       0.0);       (449422.9,	( 449395	.1, 3758833.	7, 191.0,	191.0,	0.0);	( 449399.0,
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3758833.7,       190.2,       190.2,       0.0);         (449410.6,       3758833.7,       190.0,       190.0,       0.0);         3758833.7,       189.8,       0.0);       (449414.5,         (449418.3,       3758833.7,       189.7,       189.7,       0.0);         (449418.3,       3758833.7,       189.7,       189.7,       0.0);         (449422.2,         3758833.7,       189.6,       0.0);       (449422.9,         (449426.1,       3758833.7,       189.5,       0.0);	( 449402	.8, 3758833.	7, 190.4,	190.4,	0.0);	( 449406.7,
(449410.6, 3758833.7, 190.0, 190.0, 0.0); (449414.5, 3758833.7, 189.8, 189.8, 0.0); (449418.3, 3758833.7, 189.7, 189.7, 0.0); (449422.2, 3758833.7, 189.6, 189.6, 0.0); (449426.1, 3758833.7, 189.5, 0.0); (449429.9,	3758833.7,	190.2,	190.2,	0.0);	• -	•
3758833.7,       189.8,       189.8,       0.0);         (449418.3,       3758833.7,       189.7,       189.7,       0.0);         3758833.7,       189.6,       0.0);       (449422.2,         (449426.1,       3758833.7,       189.5,       0.0);         (449426.1,       3758833.7,       189.5,       0.0);	( 449410	.6, 3758833.	7, 190.0,	190.0,	0.0);	( 449414.5,
(449418.3, 3758833.7, 189.7, 189.7, 0.0); (449422.2, 3758833.7, 189.6, 189.6, 0.0); (449426.1, 3758833.7, 189.5, 189.5, 0.0); (449429.9,	3758833.7,	189.8,	189.8,	0.0);	• -	•
3758833.7, 189.6, 189.6, 0.0); ( 449426.1, 3758833.7, 189.5, 189.5, 0.0); ( 449429.9,	( 449418	.3, 3758833.	7, 189.7,	189.7,	0.0);	( 449422.2,
(449426.1. 3758833.7. 189.5. 189.5. 0.0): (449429.9.	3758833.7,	189.6,	189.6,	0.0);	• -	
	( 449426	.1, 3758833.	7, 189.5,	189.5,	0.0);	( 449429.9,

3758833.7,	189.3,	189.3,	0.0);		
( 449433	.8, 3758833.7	7, 189.2,	189.2,	0.0);	( 449437.7,
3758833.7,	189.1,	189.1,	0.0);	, -	<b>、</b>
( 449441	.5. 3758833.	7. 188.9.	188.9.	0.0):	( 449445.4.
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( 449368	0 3758847 9	193 4	193 4	9 9).	( 449371 9
37588/17 8	103 2	103 2	0 0)·	0.0/,	( ++55/1.5)
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	.0, 3/3004/.0	102 0	195.0,	0.0);	( 4493/9.0,
3/5884/.8,	192.8,	192.8,	0.0);	0.0	(
( 449383	.5, 3/5884/.8	3, 192.5,	192.5,	0.0);	( 449387.4,
3758847.8,	192.2,	192.2,	0.0);		
( 449391	.2, 3758847.8	3, 192.0,	192.0,	0.0);	( 449395.1,
3758847.8,	191.7,	191.7,	0.0);		
( 449399	.0, 3758847.8	8, 191.5,	191.5,	0.0);	( 449402.8,
3758847.8,	191.2,	191.2,	0.0);		
( 449406	.7, 3758847.8	3, 191.0,	191.0,	0.0);	( 449410.6,
3758847.8.	190.7.	190.7.	0.0);	, -	<b>、</b>
( 449414	.5. 3758847.8	3. 190.5.	190.5.	0.0):	( 449418.3.
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2750017 0	100 0	100.0	0 0).	0.0),	( ++)+20.1;
5/5004/.0,	190.0,	190.0,	100 0	0.0).	( 440422 0
( 449429	.9, 3/5884/.8	3, 189.8,	189.8,	0.0);	( 449433.8,
3/5884/.8,	189.6,	189.6,	0.0);	a a)	
( 449437	.7, 3758847.8	8, 189.5,	189.5,	0.0);	( 449441.5,
3758847.8,	189.3,	189.3,	0.0);		
( 449445	.4, 3758847.8	3, 189.2,	189.2,	0.0);	( 449368.0,
3758861.8,	194.1,	194.1,	0.0);		
( 449371	.9, 3758861.8	3, 194.0,	194.0,	0.0);	(449375.8,
3758861.8,	193.8,	193.8,	0.0);		
( 449379	.6, 3758861.8	3, 193.7,	193.7,	0.0);	(449383.5,
3758861.8.	193.4.	193.4.	0.0):		( )
( 449387	.4. 3758861.8	R. 193.2.	193.2.	0.0):	( 449391.2.
3758861 8	192 9	192 9	0 0)·	0.075	(
( 110205	1 2750061	102.7	102 7	0 0).	( 110200 0
2750061 0	102 /	102 4	192.7,	0.0),	( 449599.0,
5/50001.0,	192.4,	192.4,	0.0);	0.0).	( 110106 7
( 449402	.8, 3/58861.8	3, 192.1,	192.1,	0.0);	( 449406.7,
3/58861.8,	191.9,	191.9,	0.0);	>	
( 449410	.6, 3758861.8	8, 191.6,	191.6,	0.0);	( 449414.5,
3758861.8,	191.4,	191.4,	0.0);		
( 449418	.3, 3758861.8	3, 191.2,	191.2,	0.0);	( 449422.2,
3758861.8,	190.9,	190.9,	0.0);		
( 449426	.1, 3758861.8	3, 190.7,	190.7,	0.0);	(449429.9,
3758861.8.	190.4.	190.4.	0.0);		,
( 449433	.8. 3758861.8	3. 190.2.	190.2.	0.0);	( 449437.7.
3758861.8.	190.0.	190.0.	0.0):	,,	(
( //Q//1	5 3758861 9	2 120 Q	189 8	9 9).	( 119115 1
2750061 0	120 7	109.0) 100 7	, a a).	0.0/)	( ++J++J.+,
, 000L.0	107./,	ر/، <i>ב</i> טב ح ۱۵۸ -	104 7	0 0).	( 110271 0
	.v, 3/308/5.8	5, 194./,	194./,	0.0);	( 4493/1.9,
3/588/5.8,	194.6,	194.6,	0.0);		/
( 449375	.8, 3758875.8	3, 194.4,	194.4,	0.0);	(449379.6,

3758875.8, 194.3, 194.3, 0.0); (449383.5, 3758875.8, 194.1, 0.0); 194.1, (449387.4, 3758875.8, 193.8, 193.8, 0.0); 193.5, (449391.2, 3758875.8, 193.5, 0.0); (449395.1,3758875.8, 193.3, 193.3, 0.0); (449399.0, 3758875.8, 193.0, 193.0, 0.0); (449402.8, 3758875.8, 192.8, 192.8, 0.0); (449406.7, 3758875.8, 192.5, 192.5, 0.0); ( 449410.6, 3758875.8, 192.2, 0.0); 192.2, ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 \*\*\* HRA\PM10\PM10.ISC 11/11/21 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* \*\*\* 11:46:36

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*

(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG) (METERS)

( 449414.	.5, 3758875.3	8, 192.0,	192.0,	0.0);	( 449418.3,
3758875.8,	191.7,	191.7,	0.0);		
( 449422.	.2, 3758875.8	8, 191.5,	191.5,	0.0);	( 449426.1,
3758875.8,	191.2,	191.2,	0.0);		
( 449429.	.9, 3758875.8	8, 191.0,	191.0,	0.0);	( 449433.8,
3758875.8,	190.7,	190.7,	0.0);		
( 449437.	.7, 3758875.8	8, 190.4,	190.4,	0.0);	( 449441.5,
3758875.8,	190.2,	190.2,	0.0);		
( 449445.	.4, 3758875.8	8, 190.1,	190.1,	0.0);	( 449368.0,
3758889.9,	195.2,	195.2,	0.0);		
( 449371.	.9, 3758889.9	9, 195.0,	195.0,	0.0);	( 449375.8,
3758889.9,	194.9,	194.9,	0.0);		
( 449379.	.6, 3758889.9	9, 194.8,	194.8,	0.0);	( 449383.5,
3758889.9,	194.5,	194.5,	0.0);		
( 449387.	4, 3758889.9	9, 194.3,	194.3,	0.0);	( 449391.2,
3758889.9,	194.0,	194.0,	0.0);		
( 449395.	.1, 3758889.9	9, 193.7,	193.7,	0.0);	( 449399.0,
3758889.9,	193.5,	193.5,	0.0);		
( 449402.	.8, 3758889.9	9, 193.2,	193.2,	0.0);	( 449406.7,
3758889.9,	193.0,	193.0,	0.0);		
( 449410.	.6, 3758889.9	9, 192.7,	192.7,	0.0);	( 449414.5,
3758889.9,	192.5,	192.5,	0.0);		
( 449418.	.3, 3758889.9	9, 192.2,	192.2,	0.0);	( 449422.2,
3758889.9,	191.9,	191.9,	0.0);		
( 449426.	<b>1, 3758889.</b>	9, 191.7,	191.7,	0.0);	( 449429.9,
3758889.9,	191.4,	191.4,	0.0);		
( 449433.	.8, 3758889.9	9, 191.2,	191.2,	0.0);	( 449437.7,
3758889.9,	190.9,	190.9,	0.0);		
( 449441.	,5, 3758889.9	9, 190.7,	190.7,	0.0);	( 449445.4,

3758889.9,	190.6,	190.6,	0.0);		
( 449368.	0, 3758903.9	9, 195.8,	195.8,	0.0);	( 449371.9,
3758903.9,	195.7,	195.7,	0.0);		
( 449375.	8, 3758903.9	9, 195.6,	195.6,	0.0);	( 449379.6,
3758903.9,	195.5,	195.5,	0.0);		
( 449383.	5, 3758903.9	9, 195.2,	195.2,	0.0);	( 449387.4,
3758903.9,	195.0,	195.0,	0.0);		,
( 449391.	2, 3758903.9	9. 194.7.	194.7.	0.0);	( 449395.1,
3758903.9.	194.5.	194.5.	0.0):		
( 449399.	0. 3758903.9	194.2.	194.2.	0.0):	( 449402.8.
3758903.9.	194.0.	194.0.	0.0):	,,	(
( 449406.	7. 3758903.	. <u>193.7</u> .	193.7.	0.0):	( 449410.6.
3758903 9	193 4	193 4	0 0)·	0.075	( 119 120.0)
( 119111	5 3758903 0	193.4, 193.1	193 1	9 9).	( 119118 3
3758003 0	192 8	192 8	0 0)·	0.0);	( ++5+10.5)
( //9/22	2 3758903 0	192.0, 192.6	192 6	9 9).	( 119126 1
2750002 0	102 2	102.2	1J2.0,	0.0),	( 449420.1,
/ 1/0/20	0 2759002 (	102.0	102 0	0 0).	( 110122 0
275002 0	101 7	105 0	192.0,	0.0),	( 449455.8,
/ / / / / / / /	191./, 7 2750002 (	101 /	105 0	0 0).	( 110111 E
	101 2	101 D	195.0,	0.0),	( 449441.5,
3/38903.9,	191.2,	191.2,	0.0);	0.0).	( 440268 0
( 449445.	4, 3758903.	9, 191.1,	191.1,	0.0);	(449368.0,
3/58918.0,	196.6,	196.6,	0.0);	0.0).	( 440275 0
( 4493/1.	9, 3/58918.0	196.5,	196.5,	0.0);	(449375.8,
3/58918.0,	196.5,	196.5,	0.0);	a a)	(
( 4493/9.	6, 3/58918.0	196.4,	196.4,	0.0);	( 449383.5,
3/58918.0,	196.2,	196.2,	0.0);		
( 449387.	4, 3/58918.0	<i>i</i> , 195.9,	195.9,	0.0);	( 449391.2,
3758918.0,	195.7,	195.7,	0.0);		
( 449395.	1, 3758918.0	9, 195.4,	195.4,	0.0);	( 449399.0,
3758918.0,	195.1,	195.1,	0.0);		
( 449402.	8, 3758918.0	), 194.9,	194.9,	0.0);	( 449406.7,
3758918.0,	194.6,	194.6,	0.0);		
( 449410.	6, 3758918.0	), 194.3,	194.3,	0.0);	( 449414.5,
3758918.0,	194.0,	195.0,	0.0);		
( 449418.	3, 3758918.0	), 193.6,	195.0,	0.0);	( 449422.2,
3758918.0,	193.3,	195.0,	0.0);		
( 449426.	1, 3758918.0	), 192.9,	195.0,	0.0);	( 449429.9,
3758918.0,	192.6,	195.0,	0.0);		
( 449433.	8, 3758918.0	), 192.2,	195.0,	0.0);	( 449437.7,
3758918.0,	191.9,	195.0,	0.0);		
( 449441.	5, 3758918.0	), 191.7,	195.0,	0.0);	( 449445.4,
3758918.0,	191.5,	191.5,	0.0);		
( 449368.	0, 3758932.0	9, 197.2,	197.2,	0.0);	( 449371.9,
3758932.0,	197.2,	197.2,	0.0);		
( 449375.	8, 3758932.0	), 197.2,	197.2,	0.0);	( 449379.6,
3758932.0,	197.2,	197.2,	0.0);	, -	
( 449383.	5, 3758932.0	), 196.9.	196.9.	0.0);	( 449387.4.
3758932.0.	196.7.	196.7,	0.0);		. ,
( 449391.	2, 3758932.0	), 196.4,	196.4,	0.0);	( 449395.1.
•	-	- /	•		

196.2, 195.9, 195.9, (449399.0, 3758932.0, 0.0); (449402.8, 195.6, 3758932.0, 195.6, 0.0); 195.4, 195.4, (449406.7, 3758932.0, 0.0); (449410.6)195.1, 0.0); 3758932.0, 195.1, 194.7, (449414.5, 3758932.0, 194.7, 0.0); (449418.3,3758932.0, 194.3, 0.0); 194.3, 193.9, (449422.2, 3758932.0, 193.9, 0.0); (449426.1,193.5, 0.0); 3758932.0, 193.5, 193.1, (449429.9, 3758932.0, 193.1, 0.0); (449433.8, 3758932.0, 192.8, 192.8, 0.0); ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 HRA\PM10\PM10.ISC \*\*\* 11/11/21 \*\*\* \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* 11:46:36 PAGE 8 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ U\* \*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\* (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG) (METERS) (449437.7, 3758932.0, 0.0); (449441.5,192.4, 192.4, 192.1, 0.0); 3758932.0, 192.1, 192.0, 192.0, (449445.4, 3758932.0, 0.0); (449368.0, 0.0); 3758946.0, 197.7, 197.7, 197.7, 197.7, (449371.9, 3758946.0, 0.0);(449375.8,197.7, 3758946.0, 197.7, 0.0); 197.7, (449379.6, 3758946.0, (449383.5,197.7, 0.0); 197.4, 0.0); 3758946.0, 197.4, 197.1, (449391.2,(449387.4, 3758946.0, 197.1, 0.0); 196.9, 0.0); 3758946.0, 196.9, 196.6, (449395.1, 3758946.0, 196.6, 0.0); (449399.0,3758946.0, 196.4, 0.0); 196.4, 196.1, (449402.8, 3758946.0, 196.1, 0.0); (449406.7, 195.8, 3758946.0. 195.8, 0.0);195.5, (449410.6, 3758946.0, 195.5, 0.0);(449414.5,3758946.0, 195.2, 195.2, 0.0); 194.8, (449418.3, 3758946.0, 0.0);(449422.2,194.8, 194.4, 0.0); 3758946.0, 194.4, 194.0, (449426.1, 3758946.0, 196.0, 0.0); (449429.9, 0.0); 3758946.0, 193.6, 196.0, 193.2, (449433.8, 3758946.0, 196.0, 0.0); (449437.7)196.0, 0.0);3758946.0, 192.8, (449441.5, 3758946.0, 192.5, 196.0, 0.0); (449445.4)192.3, 0.0);3758946.0, 192.3, 198.0, (449368.0, 3758960.1, 198.0, 0.0); (449371.9,198.0, 0.0); 3758960.1, 198.0, ( 449375.8, 3758960.1, 198.0, 198.0, 0.0); (449379.6,

0.0);

3758932.0, 196.2,

3758960.1,	198.0,	198.0,	0.0);			
( 449383.	5, 3758960.1	L, 197.8,	197.8,	0.0);	(	449387.4,
3758960.1,	197.5,	197.5,	0.0);	, -	•	-
( 449391.	2, 3758960.1	L, 197.3,	197.3,	0.0);	(	449395.1,
3758960.1,	197.0,	197.0,	0.0);		`	2
( 449399.	.0. 3758960.1	L. 196.8.	196.8.	0.0);	(	449402.8.
3758960.1.	196.5.	196.5.	0.0);		`	,
( 449406.	7. 3758960.1	196.3.	196.3.	0.0):	(	449410.6.
3758960.1.	196.0.	196.0.	0.0):	0.073	`	11012010)
( 449414	5 3758960 1	195 6	195 6	9 9).	(	449418 3
3758960 1	195 2	195 2	0 0)·	0.0/;	(	++>+10.5,
( 1/9/22	2 3758960 1	197.2, 1 10/ 0	19/ 9	9 9).	(	119126 1
3758060 1	101 5	101 5	۲J4.J, ۵ ۵)۰	0.0),	(	ر1.02+7+7
/ //0/20	0 3758060 1	104.5,	10/ 1	0 0).	(	110133 8
2759060 1	102 7	102 7	194.1,	0.0),	C	449499.0,
/ 1/0/27	7 2759060 1	102 2	102 2	0 0).	1	110111 5
275066 1	102 0	102 0	0.0),	0.0),	C	449441.),
5/56900.1, / 44044E	195.0,	102 7	102 7	0 0).	1	110269 0
2750074 1	100 0	100 0	192.7,	0.0);	(	449308.0,
5/569/4.L, ( 440271	190.0,	198.0,	108.0	0.0).	,	440275 0
( 4493/1.	100 0	100 0	198.0,	0.0);	(	4493/3.8,
3/589/4.1,	198.0,	198.0,	0.0);	0.0).	,	440202 5
( 449379.	.6, 3/589/4.1	198.0,	198.0,	0.0);	(	449383.5,
3/589/4.1,	197.8,	197.8,	0.0);	0.0	,	440204 2
( 449387.	4, 3/589/4.1	L, 197.6,	197.6,	0.0);	(	449391.2,
3758974.1,	197.5,	197.5,	0.0);			
( 449395.	1, 3758974.1	l, 197.3,	197.3,	0.0);	(	449399.0,
3758974.1,	197.1,	197.1,	0.0);			
( 449402.	.8, 3758974.1	l, 196.9,	196.9,	0.0);	(	449406.7,
3758974.1,	196.7,	196.7,	0.0);			
( 449410.	.6, 3758974.1	l, 196.5,	196.5,	0.0);	(	449414.5,
3758974.1,	196.1,	196.1,	0.0);			
( 449418.	.3, 3758974.1	l, 195.7,	195.7,	0.0);	(	449422.2,
3758974.1,	195.3,	195.3,	0.0);			
( 449426.	1, 3758974.1	L, 194.9,	197.0,	0.0);	(	449429.9,
3758974.1,	194.5,	197.0,	0.0);			
( 449433.	.8, 3758974.1	l, 194.2,	197.0,	0.0);	(	449437.7,
3758974.1,	193.8,	197.0,	0.0);			
( 449441.	5, 3758974.1	l, 193.4,	197.0,	0.0);	(	449445.4,
3758974.1,	193.1,	197.0,	0.0);			
( 449368.	0, 3758988.2	2, 198.1,	198.1,	0.0);	(	449371.9,
3758988.2,	198.1,	198.1,	0.0);			
( 449375.	8, 3758988.2	2, 198.1,	198.1,	0.0);	(	449379.6,
3758988.2,	198.1,	198.1,	0.0);			
( 449383.	5, 3758988.2	2, 197.9,	197.9,	0.0);	(	449387.4,
3758988.2,	197.8,	197.8,	0.0);			
( 449391.	2, 3758988.2	2, 197.6,	197.6,	0.0);	(	449395.1,
3758988.2,	197.5,	197.5,	0.0);		•	2
( 449399.	.0, 3758988.2	2, 197.4,	197.4,	0.0);	(	449402.8,
3758988.2,	197.2,	197.2,	0.0);		•	2
( 449406.	7, 3758988.2	2, 197.1,	197.1,	0.0);	(	449410.6,
-			-		•	

3758988.2, 196.9, 196.9, 0.0);(449414.5, 3758988.2, 196.5, 0.0); 196.5, (449418.3,3758988.2, 0.0); 196.1, 196.1, 195.8, 195.8, (449422.2, 3758988.2, 0.0); (449426.1,195.4, 3758988.2, 195.4, 0.0); 195.0, (449429.9, 3758988.2, 195.0, 0.0); (449433.8)194.6, 3758988.2, 194.6, 0.0);194.2, (449437.7, 3758988.2, 194.2, 0.0); (449441.5,193.9, 0.0); 3758988.2, 193.9, 193.5, (449445.4, 3758988.2, 193.5, 0.0);(449368.0, 198.5, 0.0); 3759002.2, 198.5, 198.5, 198.5, (449371.9, 3759002.2, 0.0); (449375.8)198.5, 0.0); 3759002.2, 198.5, \*\*\* C:\LAKES\AERMOD VIEW\14172 ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* HRA\PM10\PM10.ISC 11/11/21 \*\*\* \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* 11:46:36

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

(449379.6, 3759002.2, 198.5, 198.5, 0.0); (449383.5,198.3, 0.0); 3759002.2, 198.3, 198.1, (449387.4, 3759002.2, 198.1, 0.0);(449391.2,3759002.2, 197.9, 0.0); 197.9, 197.7, (449395.1, 3759002.2, (449399.0, 197.7, 0.0); 197.5, 0.0); 3759002.2, 197.5, 197.3, (449406.7)(449402.8, 3759002.2, 197.3, 0.0); 197.1, 0.0);3759002.2, 197.1, 196.9, (449410.6, 3759002.2, 196.9, 0.0); (449414.5,3759002.2, 196.6, 0.0); 196.6, 196.3, (449418.3, 3759002.2, 196.3, 0.0); (449422.2, 196.0, 3759002.2, 196.0, 0.0);195.6, (449426.1, 3759002.2, 195.6, 0.0);(449429.9,3759002.2, 195.3, 0.0); 195.3, 195.0, (449433.8, 3759002.2, 0.0); (449437.7)195.0, 3759002.2, 194.7, 0.0); 194.7, 194.3, (449441.5, 3759002.2, 194.3, 0.0); (449445.4, 193.9, 0.0); 3759002.2, 193.9, (449368.0, 3759016.2, 199.0, 199.0, 0.0); (449371.9, 199.0, 0.0);3759016.2, 199.0, 199.0, 199.0, (449375.8, 3759016.2, 0.0); (449379.6,199.0, 0.0); 3759016.2, 199.0, 198.7, 198.7, (449383.5, 3759016.2, 0.0); (449387.4)0.0); 3759016.2, 198.5, 198.5, (449391.2, 3759016.2, 198.2, 198.2, 0.0); (449395.1,

3759016.2,	198.0,	198.0,	0.0);		
( 449399.	0, 3759016.2	2, 197.7,	197.7,	0.0);	( 449402.8,
3759016.2,	197.4,	197.4,	0.0);		
( 449406.	7, 3759016.2	2, 197.2,	197.2,	0.0);	( 449410.6,
3759016.2,	196.9,	196.9,	0.0);		
( 449414.	5, 3759016.2	2, 196.7,	196.7,	0.0);	( 449418.3,
3759016.2,	196.4,	196.4,	0.0);		
( 449422.	2, 3759016.2	2, 196.2,	196.2,	0.0);	( 449426.1,
3759016.2,	195.9,	195.9,	0.0);		
( 449429.	9, 3759016.2	2, 195.6,	195.6,	0.0);	( 449433.8,
3759016.2,	195.4,	195.4,	0.0);		•
( 449437.	7, 3759016.2	2, 195.1,	195.1,	0.0);	( 449441.5,
3759016.2,	194.8,	195.0,	0.0);		,
( 449445.	4, 3759016.2	2, 194.4,	195.0,	0.0);	( 449368.0,
3759030.3,	198.5,	198.5,	0.0);		,
( 449371.	9, 3759030.3	3, 198.5,	198.5,	0.0);	( 449375.8,
3759030.3.	198.5.	198.5.	0.0);	,,,	· · · · ·
( 449379.	6, 3759030.3	3. 198.5.	198.5.	0.0);	(449383.5.
3759030.3.	198.3.	198.3.	0.0);		(
( 449387.	4. 3759030.3	198.0.	198.0.	0.0):	( 449391.2.
3759030.3.	197.8.	197.8.	0.0):	,	(
( 449395.	1. 3759030	197.5.	197.5.	0.0):	( 449399 0
3759030 3	197 2	197 2	0 0)·	0.0/,	( 115555.0)
( 449402	8 3759030 3	197.2,	197 0	9 9).	( 449406 7
3759030 3	196 7	196 7	0 0).	0.0);	( ++)+00.7;
/ 1/0/10	6 3750030 3	190.7,	196 5	0 0).	( 110111 5
2750020 2	106 2	106 2 ISO.J	190.5,	0.0),	( 449414.),
/ 1/0/10	2 2750020 3	190.5, 106 1	106 1	0 0).	( 110122 2
2750020 2	105 0	105 0	190.1,	0.0),	( 449422.2,
/ //0/26	1 27E0020 3	195.9, 0 10E 7	105 7	0 0).	( 110120 0
2750020 2	105 5	10F F	195.7,	0.0),	( 449429.9,
, c.bcbec/c	2750000 °	195.5, 0 10F 2	105 2	0 0).	
( 449455.	105 1	, 195.5,	195.5,	0.0);	( 449437.7,
3/59030.3,	195.1,	195.1,	0.0);	0.0).	
( 449441.	5, 3/59030.3	3, 194.8,	194.8,	0.0);	( 449445.4,
3/59030.3,	194.4,	194.4,	0.0);	0.0)	( 440274 0
( 449368.	0, 3/59044.:	3, 198.1,	198.1,	0.0);	( 4493/1.9,
3/59044.3,	198.1,	198.1,	0.0);	a a)	(
( 449375.	8, 3759044.	3, 198.1,	198.1,	0.0);	( 449379.6,
3759044.3,	198.1,	198.1,	0.0);		
( 449383.	5, 3759044.	3, 197.8,	197.8,	0.0);	(449387.4,
3759044.3,	197.5,	197.5,	0.0);		
( 449391.	2, 3759044.3	3, 197.3,	197.3,	0.0);	( 449395.1,
3759044.3,	197.0,	197.0,	0.0);		
( 449399.	0, 3759044.3	3, 196.8,	196.8,	0.0);	( 449402.8,
3759044.3,	196.5,	196.5,	0.0);		
( 449406.	7, 3759044.3	3, 196.2,	196.2,	0.0);	( 449410.6,
3759044.3,	196.0,	196.0,	0.0);		
( 449414.	5, 3759044.3	3, 195.9,	195.9,	0.0);	( 449418.3,
3759044.3,	195.8,	195.8,	0.0);		
( 449422.	2, 3759044.3	3, 195.6,	195.6,	0.0);	( 449426.1,

PAGE 11 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\* \*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\* Surface file: ..\KRAL V9 ADJU\KRAL V9.SFC Met Version: 16216 Profile file: ..\KRAL V9 ADJU\KRAL V9.PFL Surface format: FREE Profile format: FREE Upper air station no.: Surface station no.: 3171 3190 Name: UNKNOWN Name: UNKNOWN 2012 Year: Year: 2012 First 24 hours of scalar data YR MO DY JDY HR HØ U\* W\* DT/DZ ZICNV ZIMCH M-O LEN ZØ BOWEN ALBEDO REF WS WD HT REF TA HT . . . . . . . . . . . . . . . . . . . 12 01 01 1 01 -25.6 0.266 -9.000 -9.000 -999. 330. 77.9 0.15 2.40 1.00 2.93 55. 10.1 288.1 2.0 1 02 -26.8 0.277 -9.000 -9.000 -999. 351. 84.7 0.15 12 01 01 2.40 1.00 3.05 55. 10.1 287.0 2.0 12 01 01 1 03 -21.5 0.221 -9.000 -9.000 -999. 250. 53.5 0.15 2.40 1.00 74. 10.1 284.2 2.45 2.0 12 01 01 1 04 -22.0 0.227 -9.000 -9.000 -999. 260. 56.8 0.15 2.40 1.00 2.52 77. 10.1 285.9 2.0 12 01 01 1 05 -20.0 0.206 -9.000 -9.000 -999. 225. 46.8 0.15 2.40 2.30 80. 10.1 285.4 2.0 1.00 12 01 01 1 06 -14.4 0.171 -9.000 -9.000 -999. 170. 32.1 0.15 2.40 1.00 1.93 79. 10.1 287.0 2.0 1 07 -14.9 0.174 -9.000 -9.000 -999. 174. 33.2 0.15 12 01 01 2.40 1.00 1.96 77. 10.1 284.2 2.0 1 08 -11.9 0.169 -9.000 -9.000 -999. 167. 36.1 0.15 12 01 01 2.40 0.53 1.89 77. 10.1 288.1 2.0 1 09 40.4 0.234 0.359 0.006 40. 272. -28.1 0.15 12 01 01 2.40 10.1 289.2 0.31 2.10 81. 2.0 1 10 112.6 0.246 0.742 0.005 129. 293. -11.8 0.15 12 01 01 2.40 1.99 101. 10.1 296.4 0.24 2.0 12 01 01 1 11 161.0 0.402 1.188 0.005 369. 611. -35.6 0.15 2.40 78. 10.1 298.8 2.0 0.21 3.68 1 12 184.7 0.337 1.516 0.005 668. 473. -18.4 0.15 12 01 01 2.40 0.20 2.89 68. 10.1 300.4 2.0 12 01 01 1 13 183.9 0.310 1.809 0.005 1139. 414. -14.2 0.15 2.40

0.20 2.57 64. 10.1 302.5 2.0 12 01 01 1 14 156.6 0.374 1.852 0.005 1434. 549. -29.5 0.15 2.40 0.22 3.37 63. 10.1 303.1 2.0 1 15 104.3 0.382 1.658 0.005 1546. 567. -47.2 0.15 2.40 12 01 01 0.25 3.59 62. 10.1 302.5 2.0 12 01 01 1 16 31.8 0.374 1.123 0.005 1573. 550. -145.8 0.15 2.40 0.34 3.76 10.1 300.9 2.0 69. 12 01 01 1 17 -23.3 0.276 -9.000 -9.000 -999. 354. 84.0 0.15 2.40 10.1 297.5 0.62 3.03 59. 2.0 12 01 01 1 18 -21.5 0.229 -9.000 -9.000 -999. 264. 57.8 0.15 2.40 10.1 295.4 1.00 2.54 54. 2.0 1 19 -19.3 0.204 -9.000 -9.000 -999. 221. 45.6 0.15 2.40 12 01 01 79. 1.00 2.27 10.1 292.0 2.0 12 01 01 1 20 -20.7 0.218 -9.000 -9.000 -999. 244. 52.2 0.15 2.40 79. 10.1 292.5 1.00 2.42 2.0 12 01 01 1 21 -19.7 0.206 -9.000 -9.000 -999. 225. 46.9 0.15 2.40 2.30 95. 10.1 290.9 1.00 2.0 12 01 01 1 22 -17.6 0.190 -9.000 -9.000 -999. 199. 39.8 0.15 2.40 1.00 78. 10.1 290.4 2.13 2.0 12 01 01 1 23 -20.3 0.211 -9.000 -9.000 -999. 233. 49.0 0.15 2.40 10.1 289.2 1.00 2.35 52. 2.0 1 24 -16.4 0.183 -9.000 -9.000 -999. 189. 12 01 01 37.0 0.15 2.40 1.00 2.06 75. 10.1 288.8 2.0

 First hour of profile data

 YR MO DY HR HEIGHT F WDIR
 WSPD AMB\_TMP sigmaA sigmaW sigmaV

 12 01 01 01
 10.1 1
 55.
 2.93
 288.2
 99.0
 -99.00

PAGE 12

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

	*** THE ANNU	JAL AVERAGE	CONCENTRATION	VALUES AVE	RAGED OVER 5
YEARS FOR SOURCE	GROUP: ALL	***			
		INCLUDIN	G SOURCE(S):	L0000001	, L0000002
, L0000003 ,	L0000004 ,	L0000005	ر		
	L0000006 ,	L0000007	, L0000008	, L0000009	, L0000010
,L0000011 ,	L0000012 ,	L0000013	ر		
	L0000014 ,	L0000015	, L0000016	, L0000017	, L0000018
, L0000019 ,	L0000020 ,	L0000021	ر		
	L0000022 ,	L0000023	, L0000024	, L0000025	, L0000026
,					

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

**	CONC	OF
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X-COORD (M) Y-COORD (M) Y-COORD (M) CONC	CONC	X-COORD (M)
449368.02 3/58/63.53	4.80220	4493/1.89
	1 20016	440270 62
449575.70 5750705.55 3758763 53 / 21727	4.59910	449379.03
<i>AA</i> 9383 50 3758763 53	4 05619	449387 37
3758763 53 3 90684	4.00010	++>>0/.5/
449391,24 3758763,53	3,76682	449395,11
3758763 53 3 63587	5.70002	++>>>>
449398 98 3758763 53	3,51309	449402 85
3758763.53 3.39778	5.51505	113102.03
449406.72 3758763.53	3,28975	449410.59
3758763.53 3.18932		
449414.46 3758763.53	3,09856	449418.33
3758763.53 3.01255		
449422.20 3758763.53	2.93096	449426.07
3758763.53 2.85343		
449429.94 3758763.53	2.77966	449433.81
3758763.53 2.70939		
449437.68 3758763.53	2.64236	449441.55
3758763.53 2.58006		
449445.42 3758763.53	2.52111	449368.02
3758777.57 4.80431		
449371.89 3758777.57	4.58733	449375.76
3758777.57 4.38346		
449379.63 3758777.57	4.19473	449383.50
3758777.57 4.03445		
449387.37 3758777.57	3.88529	449391.24
3758777.57 3.74679		
449395.11 3758777.57	3.61670	449398.98
3758777.57 3.49482		
449402.85 3758777.57	3.38037	449406.72
3758777.57 3.27271		
449410.59 3758777.57	3.17320	449414.46
3758777.57 3.08391		
449418.33 3758777.57	2.99882	449422.20
3758777.57 2.91807		
449426.07 3758777.57	2.84132	449429.94
3758777.57 2.76828		
449433.81 3758777.57	2.69868	449437.68
3758777.57 2.63228		
449441.55 3758777.57	2.57131	449445.42

\*\*

3758777.57 2.51462		
449368.02 3758791.61	4.81468	449371.89
3758791.61 4.60458		
449375.76 3758791.61	4.40913	449379.63
3758791.61 4.22735		
449383.50 3758791.61	4.06598	449387.37
3758791.61 3.91577		
449391.24 3758791.61	3.77563	449395.11
3758791.61 3.64514		
449398.98 3758791.61	3.52231	449402.85
3758791.61 3.40696		
449406.72 3758791.61	3.29844	449410.59
3758791.61 3.19808		
449414.46 3758791.61	3.10745	449418.33
3758791.61 3.02158		
449422.20 3758791.61	2.94052	449426.07
3758791.61 2.86307		
449429.94 3758791.61	2.78937	449433.81
3758791.61 2.71916		
449437.68 3758791.61	2.65218	449441.55
3758791.61 2.58925		
449445.42 3758791.61	2.53039	449368.02
3758805.65 4.82553		
449371.89 3758805.65	4.62130	449375.76
3758805.65 4.43280		
449379.63 3758805.65	4.25817	449383.50
3758805.65 4.09588		
449387.37 3758805.65	3.94479	449391.24
3758805.65 3.80374		
449395.11 3758805.65	3.67182	449398.98
3758805.65 3.54867		
449402.85 3758805.65	3.43251	449406.72
3758805.65 3.32318		
449410.59 3758805.65	3.22203	449414.46
3758805.65 3.13057		
449418.33 3758805.65	3.04391	449422.20
3758805.65 2.96170		
449426.07 3758805.65	2.88359	449429.94
3758805.65 2.80967		
▲ *** AERMOD - VERSION 19191 ***	*** C:\LAKES\AERMOD VIEW\14172	
	*** 11/11/21	
*** AERMET - VERSION 16216 ***	***	
***	11:46:36	

PAGE 13
\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5 YEARS FOR SOURCE GROUP: ALL \*\*\* INCLUDING SOURCE(S): L0000001 , L0000002

, L0000003	, L0000004 L0000006	, L0000005 , L0000007	, , L0000008	, L0000009	, L0000010
, L0000011	, L0000012 L0000014	, L0000013 , L0000015	, , L0000016	, L0000017	, L0000018
, L0000019	, L0000020 L0000022	, L0000021 , L0000023	, , L0000024	, L0000025	, L0000026

## \*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\* CONC OF PM\_10 IN MICROGRAMS/M\*\*3

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**		
X-COORD (M) Y-COORD (M) Y-COORD (M) CONC		X-COORD (M)
449433.81 3758805.65	2.73885	449437.68
3758805.65 2.67131		
449441.55 3758805.65	2.60682	449445.42
3/58805.65 2.5451/	1 01770	440271 80
449508.02 5758819.09 3758810.60 / 62335	4.82775	449371.89
AA9375 76 3758819 69	1 13509	119379 63
3758819.69 4.26016	4.45505	
449383.50 3758819.69	4.09771	449387.37
3758819.69 3.94651		
449391.24 3758819.69	3.80541	449395.11
3758819.69 3.67402		
449398.98 3758819.69	3.55035	449402.85
3758819.69 3.43421		
449406.72 3758819.69	3.32493	449410.59
3758819.69 3.22385		
449414.46 3758819.69	3.13251	449418.33
3/58819.69 3.0459/	2 06286	440426 07
449422.20 3758819.69	2.96386	449426.07
<i>1/10/20 0/ 3758810 60</i>	2 81201	1/19/33 81
3758819.69 2.74127	2.01201	++)+)).01
449437.68 3758819.69	2,67380	449441.55
3758819.69 2.60938		
449445.42 3758819.69	2.54778	449368.02
3758833.73 4.82819		
449371.89 3758833.73	4.62339	449375.76
3758833.73 4.43493		
449379.63 3758833.73	4.25987	449383.50
3758833.73 4.09737	• • • • • •	
449387.37 3758833.73	3.94616	449391.24
3758833.73 3.80510		

449395.11 3758833.73	3.67378	449398.98
3/58833./3 3.55019 //0/02 85 3758833 73	3 13111	119106 72
3758833.73 3.32497	J.+J+1+	449400.72
449410.59 3758833.73	3.22403	449414.46
3758833.73 3.13286		
449418.33 3758833.73	3.04649	449422.20
3758833.73 2.96453		
449426.07 3758833.73	2.88706	449429.94
3/58833./3 2.81295	2 74222	110127 69
449455.01 5750055.75 3758833 73 2 67/07	2:74255	449437.00
449441,55 3758833,73	2,61064	449445 42
3758833.73 2.54914	2101001	113113.12
449368.02 3758847.77	4.86790	449371.89
3758847.77 4.66553		
449375.76 3758847.77	4.47900	449379.63
3758847.77 4.30572		
449383.50 3758847.77	4.14218	449387.37
3/5884/.// 3.9902/	2 04702	440205 11
449391.24 3/5884/.//	3.84793	449395.11
<i>14</i> 9398 98 3758847 77	3 58983	449402 85
3758847.77 3.47250	5.56565	449402.09
449406.72 3758847.77	3.36255	449410.59
3758847.77 3.25935		
449414.46 3758847.77	3.16456	449418.33
3758847.77 3.07528		
449422.20 3758847.77	2.99021	449426.07
3758847.77 2.90945	2, 02200	440422 01
449429.94 3758847.77	2.83269	449433.81
<i>449437</i> 68 3758847 77	2 68994	449441 55
3758847.77 2.62451	2:00554	
449445.42 3758847.77	2.56263	449368.02
3758861.81 4.89493		
449371.89 3758861.81	4.69885	449375.76
3758861.81 4.51522		
449379.63 3758861.81	4.35029	449383.50
3/58861.81 4.18851 440297 27 2758961 91	4 02601	440201 24
3758861 81 3 89351	4.03001	449591.24
449395.11 3758861.81	3.76001	449398.98
3758861.81 3.63436		
449402.85 3758861.81	3.51602	449406.72
3758861.81 3.40460		
449410.59 3758861.81	3.29981	449414.46
3758861.81 3.20123		
▲ ↑↑↑ AEKMUD - VERSION 19191 ***	*** L:\LAKES\AERMOD VIEW\14172	
חגא לאוודה לאודה. דאר	11/11/21	

*** AERMET - VERSION 16216 *** *** *** 11:46	5:36
PAGE *** MODELOPTs: RegDFAULT CONC ELEN	14 / URBAN ADJ_U*
*** THE ANNUAL AVERAGY YEARS FOR SOURCE GROUP: ALL *** INCLUE , L0000003 , L0000004 , L0000005 L0000006 , L0000007 , L0000011 , L0000012 , L0000013 L0000014 , L0000015 , L0000019 , L0000020 , L0000021 L0000022 , L0000023 ,	SE CONCENTRATION       VALUES AVERAGED OVER       5         DING SOURCE(S):       L0000001       , L0000002         , L0000008       , L0000009       , L0000010         , L0000016       , L0000017       , L0000018         , L0000024       , L0000025       , L0000026         *** DISCRETE CARTESIAN RECEPTOR POINTS
**	** CONC OF PM_10 IN MICROGRAMS/M**3
X-COORD (M) Y-COORD (M) Y-COORD (M) CONC	CONC X-COORD (M)
449418.33 3758861.81 3758861 81 3 01944	3.10789 449422.20
449426.07 3758861.81	2.93586 449429.94
3758861.81 2.85607 449433.81 3758861.81	2,78013 449437,68
3758861.81 2.70779	
449441.55 3758861.81 3758861.81 2.57847	2.64082 449445.42
449368.02 3758875.85	4.90328 449371.89
3758875.85 4.70799 449375.76 3758875.85	4.52677 449379.63
449383.50 3758875.85 449383.50	4.20611 449387.37
3758875.85       4.05566         449391.24       3758875.85	3.91895 449395.11
3758875.85 3.78541 449398.98 3758875.85	3.66012 449402.85
3758875.85 3.54164 449406 72 3758875 85	3, 42990 449410, 59
3758875.85 3.32431	J. 72,220 77,720, J.J.
449414.46 3758875.85	3.22445 449418.33
449422.20 3758875.85	3.04053 449426.07

3758875.85	2.9	5535	2 07427	440400 04
4 3758875.85	49429.94 2.7	3/588/5.85 9729	2.8/43/	449433.81
4	49437.68	3758875.85	2.72419	449441.55
3758875.85	2.6	5643		
2750000 00	49445.42	3758875.85	2.59363	449368.02
2728889.89	4.9 49371 89	3758889 89	4 71095	449375 76
3758889.89	4.5	3076		
4	49379.63	3758889.89	4.37013	449383.50
3758889.89	4.2	1368		
4	49387.37	3758889.89	4.07034	449391.24
3758889.89	3.9	3098	2 00057	
2750000 00	49395.11	3/58889.89	3.80256	449398.98
40.60002/C ۸	2.0 19102 85	7758889 89	3 55926	119196 72
3758889.89	3.4	4751	5.55920	449400.72
4	49410.59	3758889.89	3.34172	449414.46
3758889.89	3.2	4166		
4	49418.33	3758889.89	3.14678	449422.20
3758889.89	3.0	5715		
4	49426.07	3758889.89	2.97164	449429.94
3758889.89	2.8	9035	2 01202	440427 60
2750000 00	49433.81	3/58889.89	2.81292	449437.68
40.60002/C ۸	۷۰./ ۸۹۸۸1 55	3758880 80	2 67132	119115 12
3758889.89	2.6	0808	2.0/152	449449.42
4	49368.02	3758903.93	4.90405	449371.89
3758903.93	4.7	1017		
4	49375.76	3758903.93	4.53093	449379.63
3758903.93	4.3	6450		
4	49383.50	3758903.93	4.21714	449387.37
3758903.93	4.0	7139	2 04100	440205 44
2758002 02	49391.24 > o	3/58903.93	3.94108	449395.11
5756965.95 ۸	0.C 20 20201	1200	3 69413	119102 85
3758903.93	3.5	7770	5.05415	449402.09
4	49406.72	3758903.93	3.47086	449410.59
3758903.93	3.3	6531		
4	49414.46	3758903.93	3.26431	449418.33
3758903.93	3.1	6846		
4	49422.20	3758903.93	3.07729	449426.07
3/58903.93	2.9	9058	2 00802	440422 01
4	49429.94 2 8	3/38903.93	2.90802	449433.81
4	2 <b>،</b> 0 49437,68	3758903.93	2,75430	449441.55
3758903.93	2.6	8514		
4	49445.42	3758903.93	2.62181	449368.02
3758917.97	4.8	7708		
4	49371.89	3758917.97	4.68432	449375.76

3758917.97 4.50583		
449379.63 3758917.97	4.34085	449383.50
3758917.97 4.20226		
449387.37 3758917.97	4.06108	449391.24
3758917.97 3.93583		
449395.11 3758917.97	3.80964	449398.98
3758917.97 3.69710		
	C. LAKES AERMOD VIEW 14172	
	*** 11/11/21	
	11/11/21	
AERMEI - VERSIUN 10210		
	5.36	
PAGE	15	
*** MODELOPTs: RegDFAULT CONC ELEV	/ URBAN ADJ_U*	
*** THE ANNUAL AVERAG	GE CONCENTRATION VALUES AVE	ERAGED OVER 5
YEARS FOR SOURCE GROUP: ALL ***		
INCLU	DING SOURCE(S): L0000001	, L0000002
, L0000003 , L0000004 , L0000005		-
L000006 . L000007	. 10000008 . 10000009	. 10000010
	,, ,	,
	,	1 0000018
	, 2000010 , 2000017	, 10000010
, L0000019 , L0000020 , L0000021	,	1000000
L0000022 , L0000023	, L0000024 , L0000025	, L0000026
ر		
	*** DISCRETE CARTESIAN F	RECEPTOR POINTS
***		
	** CONC OF PM_10 IN MICRO	GRAMS/M**3
**		
X-COORD (M) Y-COORD (M)	CONC X-	-COORD (M)
Y-COORD (M) CONC		
110102 85 3758017 07	2 58380	110106 72
	3.36366	449400.72
3/3091/.9/ 3.40222 AA0410 F0 3750017 07	2 27002	440414 46
449410.59 3758917.97	3.3/903	449414.46
3/5891/.9/ 3.28385		
449418.33 3758917.97	3.19146	449422.20
3758917.97 3.09914		
449426.07 3758917.97	3.01089	449429.94
3758917.97 2.92620		
449433.81 3758917.97	2.84559	449437.68
3758917.97 2.76856		
449441.55 3758917.97	2.69849	449445.42
3758917.97 2.63447		
449368.02 3758932.01	4.85351	449371.89
3758932.01 4.66065		

449375.76 3758932.01	4.48242	449379.63
3758932.01 4.31757		
449383.50 3758932.01	4.17247	449387.37
3758932.01 4.04804	2 01026	440205 44
449391.24 3758932.01	3.91826	449395.11
3/58932.01 3.804/1 //0308 08 3758032 01	3 68768	110102 85
3758932 01 3 58390	5.00700	449402.83
449406,72 3758932,01	3,47830	449410.59
3758932.01 3.38421	5.17050	110110.00
449414.46 3758932.01	3.29221	449418.33
3758932.01 3.19781		
449422.20 3758932.01	3.11074	449426.07
3758932.01 3.02638		
449429.94 3758932.01	2.94129	449433.81
3758932.01 2.85973		
449437.68 3758932.01	2.78187	449441.55
3/58932.01 2./10/2		440368 03
449445.42 3758932.01	2.64554	449368.02
1/0371 80 37580/6 85	1 63083	119375 76
3758946 05 4 46221	4.05985	449575.70
449379.63 3758946.05	4,29799	449383.50
3758946.05 4.17036		
449387.37 3758946.05	4.03501	449391.24
3758946.05 3.91866		
449395.11 3758946.05	3.79726	449398.98
3758946.05 3.69060		
449402.85 3758946.05	3.58055	449406.72
3758946.05 3.48308		
449410.59 3758946.05	3.38293	449414.46
3/58946.05 3.29368	2 20007	440422 20
449418.33 3758940.05 2759046 65 2 11612	3.20007	449422.20
<i>A</i> 19426 07 3758946 05	3 03331	119129 91
3758946.05 2.95258	5.05551	++>+2>.>+
449433.81 3758946.05	2.87133	449437.68
3758946.05 2.79336		
449441.55 3758946.05	2.72130	449445.42
3758946.05 2.65451		
449368.02 3758960.09	4.81206	449371.89
3758960.09 4.62035		
449375.76 3758960.09	4.44319	449379.63
3758960.09 4.27944		
449383.50 3758960.09	4.15579	449387.37
3/58960.09 4.02139 440201 24 2758060 00	2 00702	440205 11
449391.24 3758060.09 3758060.00 2 70720	3.90/93	449395.11
ΔΔ9392 98 3752966 89	3 68341	110107 25
3758960.09 3.57456	J.00J+1	++>+02.05

449406.72 3758960.09	3.47903	449410.59
3758960.09 3.38013		
449414.46 3758960.09	3.29252	449418.33
3/58960.09 3.20/26	2 11007	110126 07
3758960 09 3 03802	5.11907	449420.07
449429.94 3758960.09	2,95883	449433.81
3758960.09 2.88182		
449437.68 3758960.09	2.80415	449441.55
3758960.09 2.73134		
449445.42 3758960.09	2.66257	449368.02
3758974.13 4.83210		
449371.89 3758974.13	4.63930	449375.76
3758974.13 4.46112		
449379.63 3758974.13	4.29641	449383.50
3/589/4.13 4.16/33		
A TTT AERMUD - VERSION 19191 TTT	*** C:\LAKES\AERMOD V	1EW\141/2
*** AEPMET _ VEPSTON 16216 ***	***	1/21
***	11.46.36	
	11.+0.90	
	PAGE 16	
*** MODELOPTs: RegDFAULT CONC	C ELEV URBAN ADJ U*	
-	_	
*** THE ANNUAL	AVERAGE CONCENTRATION	VALUES AVERAGED OVER 5
YEARS FOR SOURCE GROUP: ALL	***	
	INCLUDING SOURCE(S):	L0000001 , L0000002
,L0000003 ,L0000004 ,L00	000005 ,	
L000006 , L00	000007 , L0000008	, L0000009     , L0000010
, L0000011 , L0000012 , L00	100013 , 1000015 , 10000016	10000017
	, LUUUUUI6	, L0000017 , L0000018
		10000025 10000026
10000022 , 100	, L000024	, 2000025 , 2000020
3		
	*** DISCRETE	CARTESIAN RECEPTOR POINTS
***		
	** CONC OF PM_10	IN MICROGRAMS/M**3
**		
X-COORD (M) Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M) CONC		
	4 82072	440201 24
44538/.3/ 3/585/4.13 375807/ 13 2 2 00027	4.029/2	449391.24
۲۲ ۲۲ ۲۲ ۲۵۵۵۲ ۲۱ ۲۵۶۵۵۲ ۲۱ ۸۸۹۵۵۶ ۲۱ ۲۲۶۵۵۶۸	3 70100	110308 08
3758974,13 3 67596	5.15102	-++>>>0+>0
449402.85 3758974.13	3,57654	449406.72

3758974.13 3.47286		
449410.59 3758974.13	3.37494	449414.46
3758974.13 3.28932		
449418.33 3758974.13	3.20610	449422.20
3758974.13 3.12475		
449426.07 3758974.13	3.04064	449429.94
3758974.13 2.96310		
449433.81 3758974.13	2.88743	449437.68
3758974.13 2.81387		
449441.55 3758974.13	2.74025	449445.42
3758974.13 2.67025		
449368.02 3758988.17	4.84819	449371.89
3758988.17 4.65427		
449375.76 3758988.17	4.47514	449379.63
3758988.17 4.30915		
449383.50 3758988.17	4.17628	449387.37
3758988.17 4.03665		
449391.24 3758988.17	3,90580	449395.11
3758988.17 3.78248		
449398.98 3758988.17	3,67818	449402.85
3758988.17 3.56858		
449406.72 3758988.17	3,46485	449410.59
3758988.17 3.37640		
449414.46 3758988.17	3,28451	449418.33
3758988.17 3.20279	5120152	
449422.20 3758988.17	3.12332	449426.07
3758988.17 3.04053	5122552	113120107
449429.94 3758988.17	2,96520	449433.81
3758988.17 2.89096	2190920	
449437.68 3758988.17	2,81866	449441.55
3758988.17 2.74515	2.01000	119112.99
449445 42 3758988 17	2,67726	449368,02
3759002.21 4.81935	2.07720	
449371 89 3759002 21	4,62639	449375, 76
3759002 21 4 44815	4.02033	++>>/>>/>
449379 63 3759002 21	4 28348	449383 50
3759002 21 4 15831	+.205+0	++>>0>:>0
AA9387 37 3759002 21	4 02154	119391 21
3759002 21 3 90754	4.02104	++>>>±+>
<u>449395 11 3759002 21</u>	3 78620	449398 98
3759002 21 3 67161	5.70020	
1/9/02 85 3759002 21	3 57351	119106 72
3759002 21 3 17013	7.7771	449400:72
1/0/10 50 3750002 21	3 38008	119111 16
3750002.21 3 28778	0.0000	++)+1+.+0
ANGN18 33 2750000 21	3 205/18	110100 00
2759002 21 2 11072	J.20J40	449422.20
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	3 01330	110120 01
3759002 21 2 96862	J. U. J.	++)+29.94
AAAA33 81 3750002 21	2 89185	119137 68
	2.07107	++_+_/.00

3759002.21 2.82169		
449441.55 3759002.21	2.74927	449445.42
3759002.21 2.68226		
449368.02 3759016.25	4.81006	449371.89
3/59016.25 4.6180/		
449375.76 3759016.25	4.44062	449379.63
3759016.25 4.27661		
449383.50 3759016.25	4.13586	449387.37
3759016.25 4.02113		
449391.24 3759016.25	3.89526	449395.11
3759016.25 3.78927		
449398.98 3759016.25	3.67574	449402.85
3759016.25 3.56805		
449406.72 3759016.25	3.47513	449410.59
3759016.25 3.37686		
449414.46 3759016.25	3.29057	449418.33
3759016.25 3.20102		
449422.20 3759016.25	3.12190	449426.07
3759016.25 3.03988		
449429.94 3759016.25	2.96680	449433.81
3759016.25 2.89107		
449437.68 3759016.25	2.82294	449441.55
3759016.25 2.75569		
449445.42 3759016.25	2.68580	449368.02
3759030.29 4.85692		
▲ *** AERMOD - VERSION 19191 ***	*** C:\LAKES\AERMOD VIEW\14172	
HRA\PM10\PM10.TSC	*** 11/11/21	
*** AFRMET - VERSTON 16216 ***	***	
***	11 • 16 • 26	

## PAGE 17 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

			*** THE	ANN	JAL AVERAG	E CONCENTRATION		VALUES AVE	RAGED OVER	5
YE	ARS FOR SO	OURCE	GROUP: AL	L	***					
					INCLUD	ING SOURCE(S):		L0000001	, L0000002	
ر	L0000003	ر	L0000004	ر	L0000005	ر				
			L0000006	ر	L0000007	, L0000008	,	L0000009	, L0000010	
ر	L0000011	ر	L0000012	ر	L0000013	ر				
			L0000014	ر	L0000015	, L0000016	,	L0000017	, L0000018	
ر	L0000019	ر	L0000020	ر	L0000021	ر				
			L0000022	ر	L0000023	, L0000024	,	L0000025	, L0000026	

## \*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\* CONC OF PM\_10 IN MICROGRAMS/M\*\*3

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X-COORD (M) Y-COORD (M)	) CONC	X-COORD (M)
Y-COORD (M) CONC		
449371.89 3759030.29	9 4.66157	449375.76
3759030.29 4.48118		
449379.63 3759030.29	9 4.31450	449383.50
3759030.29 4.18531		
449387.37 3759030.29	9 4.04803	449391.24
3759030.29 3.93006		
449395.11 3759030.29	9 3.80697	449398.98
3/59030.29 3.69928	2 50706	440406 70
449402.85 3759030.29	9 3.58/96	449406.72
3/59030.29 3.48931		440414 46
	3.36353	449414.40
1/0/19 22 2750020 20		110122 20
3759030 29 3 12154	5.20845	449422.20
449426 A7 3759A3A 20	9 3 04396	<b>449429 94</b>
3759030.29 2.96499	5 5:0+550	++>+2>•>+
449433.81 3759030.29	9 2,89347	449437.68
3759030.29 2.82096	2.033.17	
449441.55 3759030.29	9 2.75352	449445.42
3759030.29 2.68322		
449368.02 3759044.33	3 4.91002	449371.89
3759044.33 4.71168		
449375.76 3759044.33	3 4.52866	449379.63
3759044.33 4.35984		
449383.50 3759044.33	3 4.22072	449387.37
3759044.33 4.07853		
449391.24 3759044.33	3 3.95294	449395.11
3759044.33 3.82574		
449398.98 3759044.33	3 3.71244	449402.85
3/59044.33 3.59825	2 2 40627	440440 50
449406.72 3759044.3	3 3.49637	449410.59
3/59044.33 3.39383	2 2 20701	440410 22
449414.40 5759044.53 3750011 33 3 21013	5 5.29701	449410.33
AA9A22 20 3759044.33 AA9A22 20 3759044 33	3 3 12306	119126 07
3759044 33 3 04007	5.12500	449420.07
449429.94 3759044.3	3 2.96534	449433.81
3759044.33 2.88996		110 100101
449437.68 3759044.33	3 2.81812	449441.55
3759044.33 2.75068		
449445.42 3759044.33	3 2.68000	
★ *** AERMOD - VERSION 19191 *	** *** C:\LAKES\AERMOD VIEW\141	.72
HRA\PM10\PM10.ISC	*** 11/11/21	
*** AERMET - VERSION 16216 ***	* ***	
***	11:46:36	

PAGE 18 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ U\* \*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\* INCLUDING SOURCE(S): L0000001 . L0000002 , L000003 , L0000005 , L0000004 , L0000008 , L0000009 L0000006 , L0000007 , L0000010 , L0000011 , L0000012 , L0000013 ر , L0000015 , L0000016 , L0000017 L0000014 , L0000018 L0000019 , L0000020 , L0000021 , L0000023 , L0000024 , L0000025 L0000022 , L0000026 ر \*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\* CONC OF PM 10 IN MICROGRAMS/M\*\*3 \*\* X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) (YYMMDDHH) Y-COORD (M) CONC 8.04254b (16120624) 449368.02 3758763.53 449371.89 3758763.53 7.70065b (16120624) 449375.76 3758763.53 7.38099b (16120624) 449379.63 3758763.53 7.08413b (16120624) 449383.50 3758763.53 6.81963b (16120624) 449387.37 3758763.53 6.57411b (16120624) 6.34394b (16120624) 449391.24 3758763.53 449395.11 3758763.53 6.12850b (16120624) 449398.98 3758763.53 5.92633b (16120624) 449402.85 5.73628b (16120624) 3758763.53 449406.72 3758763.53 5.55794b (16120624) 449410.59 3758763.53 5.39166b (16120624) 449414.46 3758763.53 5.24025b (16120624) 449418.33 5.09669b (16120624) 3758763.53 449422.20 3758763.53 4.96038b (16120624) 449426.07 3758763.53 4.83075b (16120624) 4.70733b (16120624) 449429.94 3758763.53 449433.81 3758763.53 4.58965b (16120624) 449437.68 3758763.53 4.47731b (16120624) 449441.55 4.37240b (16120624) 3758763.53 449445.42 3758763.53 4.27291b (16120624) 449368.02 3758777.57 8.04837b (16120624) 449371.89 3758777.57 7.69425b (16120624) 449375.76 3758777.57 7.36311b (16120624) 449383.50 449379.63 3758777.57 7.05674b (16120624)

3758777.57	6.79334b (16120624)	)		
449387.37	3758777.57	6.54806b	(16120624)	449391.24
3758777.57	6.31996b (16120624)	)		
449395.11	3758777.57	6.10563b	(16120624)	449398.98
3758777.57	5.90462b (16120624)	)		
449402.85	3758777.57	5.71566b	(16120624)	449406.72
3758777.57	5.53771b (16120624)	)		
449410.59	3758777.57	5.37259b	(16120624)	449414.46
3758777.57	5.22318b (16120624)	)		
449418.33	3758777.57	5.08081b	(16120624)	449422.20
3758777.57	4.94559b (16120624)	)		
449426.07	3758777.57	4.81698b	(16120624)	449429.94
3758777.57	4.69449b (16120624)	)		
449433.81	3758777.57	4.57769b	(16120624)	449437.68
3758777.57	4.46617b (16120624)	)		
449441.55	3758777.57	4.36310b	(16120624)	449445.42
3758777.57	4.26678b (16120624)	)		
449368.02	3758791.61	8.06750b	(16120624)	449371.89
3758791.61	7.72332b (16120624)	)		
449375.76	3758791.61	7.40401b	(16120624)	449379.63
3758791.61	7.10736b (16120624)	)		
449383.50	3758791.61	6.84232b	(16120624)	449387.37
3758791.61	6.59544b (16120624)	)		
449391.24	3758791.61	6.36492b	(16120624)	449395.11
3758791.61	6.14995b (16120624)	)		
449398.98	3758791.61	5.94751b	(16120624)	449402.85
3758791.61	5.75721b (16120624)	)		
449406.72	3758791.61	5.57796b	(16120624)	449410.59
3758791.61	5.41158b (16120624)	)		
449414.46	3758791.61	5.26021b	(16120624)	449418.33
3758791.61	5.11667b (16120624	)	(	
449422.20	3758791.61	4.980966	(16120624)	449426.07
3758791.61	4.85130b (16120624	)	(4.54.0.0.50.4)	
449429.94	3758791.61	4.72784b	(16120624)	449433.81
3/58/91.61	4.610110 (16120624	)	(46420624)	
449437.68	3/58/91.61	4.49//10	(16120624)	449441.55
3/58/91.61	4.391/80 (16120624	) 1 20220k	(10120024)	440368.03
449445.42	3/58/91.61	4.292300	(16120624)	449368.02
3/58805.65	8.08/0/0 (16120624	) 7 751406	(10120024)	440075 76
4493/1.89	3/38803.05	/./51400	(16120624)	449375.76
	7.44181D (16120624)	/ 7 155046	(1(1))	440383 50
4493/9.03	5/30003.03 6 000106 (16130631)	/.155040	(10120024)	449383.30
CO.CU00C/C	2759905 65	/ 6 61010h	(16120624)	440201 24
3758805 65	6 108776 (16170671)	0.040190	(10120024)	449391.24
//Q2Q5 11	3758805 65	/ 6 10119h	(16120621)	110200 00
3758805 65	5 98824h (16120624)	)	(10120024)	449596.98
449402 R5	3758805,65	/ 5.79674h	(16120624)	<u>119106</u> 72
3758805.65	5.61634h (16120624)	)	(10120027)	++)+00:72
449410.59	3758805.65	, 5.44880h	(16120624)	449414 46
			、·/	

3758805.65 5.29620b (16120624) 5.15151b (16120624) 449418.33 3758805.65 449422.20 3758805.65 5.01413b (16120624) 449426.07 3758805.65 4.88350b (16120624) 449429.94 3758805.65 4.75967b (16120624) ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 \*\*\* 11/11/21 HRA\PM10\PM10.ISC \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* \*\*\* 11:46:36 PAGE 19 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\* \*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\* INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000008 , L0000009 , L0000010 L0000006 , L0000007 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000011 , L0000021 , L0000019 , L0000020 L0000022 , L0000023 , L0000024 , L0000025 , L0000026 ر **\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS** \*\*\* \*\* CONC OF PM 10 IN MICROGRAMS/M\*\*3 \*\* (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC X-COORD (M) CONC (YYMMDDHH) Y-COORD (M) 449433.81 3758805.65 4.64105b (16120624) 449437.68 3758805.65 4.52782b (16120624) 449441.55 3758805.65 4.41961b (16120624) 449445.42 3758805.65 4.31608b (16120624) 449368.02 3758819.69 8.09335b (16120624) 449371.89 3758819.69 7.75773b (16120624) 7.44854b (16120624) 449375.76 3758819.69 449379.63 3758819.69 7.16130b (16120624) 449383.50 3758819.69 6.89446b (16120624) 449387.37 3758819.69 6.64596b (16120624) 449391.24 3758819.69 6.41391b (16120624) 449395.11 3758819.69 6.19752b (16120624) 449398.98 3758819.69 5.99376b (16120624) 449402.85 3758819.69 5.80222b (16120624) 449406.72 3758819.69 5.62181b (16120624) 449410.59 3758819.69 5.45431b (16120624)
449414.46	3758819.69	5.30181b	(16120624)	449418.33
3758819.69	5.15722b (16120624	)		
449422.20	3758819.69	5.01992b	(16120624)	449426.07
3758819.69	4.88992b (16120624	)		
449429.94	3758819.69	4.76558b	(16120624)	449433.81
3758819.69	4.64701b (16120624	)		
449437.68	3758819.69	4.53382b	(16120624)	449441.55
3758819.69	4.42564b (16120624	)		
449445.42	3758819.69	4.32214b	(16120624)	449368.02
3758833.73	8.09737b (16120624	)		
449371.89	3758833.73	7.76119b	(16120624)	449375.76
3758833.73	7.45171b (16120624	)		
449379.63	3758833.73	7.16427b	(16120624)	449383.50
3758833.73	6.89730b (16120624	)	· · ·	
449387.37	3758833.73	6.64873b	(16120624)	449391.24
3758833.73	6.41664b (16120624	)	· · ·	
449395.11	3758833.73	6.20025b	(16120624)	449398.98
3758833.73	5.99650b (16120624	)	· · ·	
449402.85	3758833.73	5.80499b	(16120624)	449406.72
3758833.73	5.62462b (16120624	)	· · ·	
449410.59	3758833.73	5.45720b	(16120624)	449414.46
3758833.73	5.30488b (16120624	)	· · ·	
449418.33	3758833.73	5.16043b	(16120624)	449422.20
3758833.73	5.02327b (16120624	)	· · ·	
449426.07	3758833.73	4.89341b	(16120624)	449429.94
3758833.73	4.76918b (16120624	)		
449433.81	3758833.73	4.65071b	(16120624)	449437.68
3758833.73	4.53762b (16120624	)		
449441.55	3758833.73	4.42953b	(16120624)	449445.42
3758833.73	4.32611b (16120624	)		
449368.02	3758847.77	8.15862b	(16120624)	449371.89
3758847.77	7.82531b (16120624	)		
449375.76	3758847.77	7.51792b	(16120624)	449379.63
3758847.77	7.23269b (16120624	)		
449383.50	3758847.77	6.96393b	(16120624)	449387.37
3758847.77	6.71413b (16120624	)		
449391.24	3758847.77	6.48007b	(16120624)	449395.11
3758847.77	6.26087b (16120624	)		
449398.98	3758847.77	6.05521b	(16120624)	449402.85
3758847.77	5.86183b (16120624	)		
449406.72	3758847.77	5.68034b	(16120624)	449410.59
3758847.77	5.50971b (16120624	)		
449414.46	3758847.77	5.35220b	(16120624)	449418.33
3758847.77	5.20360b (16120624	)		
449422.20	3758847.77	5.06198b	(16120624)	449426.07
3758847.77	4.92740b (16120624	)		
449429.94	3758847.77	4.79936b	(16120624)	449433.81
3758847.77	4.67733b (16120624	)		
449437.68	3758847.77	4.56092b	(16120624)	449441.55
3758847.77	4.45121b (16120624	)		

449445.42 3758847.77 4.34721b (16120624) 449368.02 3758861.81 8.20383b (16120624) 449371.89 3758861.81 7.87843b (16120624) 449375.76 3758861.81 7.57467b (16120624) 7.30189b (16120624) 449379.63 3758861.81 449383.50 3758861.81 7.03389b (16120624) 449387.37 3758861.81 6.78262b (16120624) 449391.24 6.54775b (16120624) 3758861.81 449395.11 3758861.81 6.32788b (16120624) 449398.98 6.12089b (16120624) 3758861.81 449402.85 3758861.81 5.92595b (16120624) 449406.72 3758861.81 5.74224b (16120624) 449410.59 3758861.81 5.56929b (16120624) 449414.46 3758861.81 5.40634b (16120624) ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 \*\*\* HRA\PM10\PM10.ISC 11/11/21 \*\*\* \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* 11:46:36 PAGE 20 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\* \*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\* INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000008 , L0000009 L0000006 , L0000007 , L0000010 , L0000011 , L0000012 , L0000013 ر , L0000016 , L0000015 , L0000017 L0000014 , L0000018 , L0000019 , L0000020 , L0000021 L0000022 . L0000023 , L0000024 , L0000025 , L0000026 ر **\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS** \*\*\* \*\* CONC OF PM 10 IN MICROGRAMS/M\*\*3 \*\* X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) 5.25193b (16120624) 449418.33 3758861.81 449422.20 5.10547b (16120624) 3758861.81 4.96684b (16120624) 449426.07 3758861.81 449429.94 4.83444b (16120624) 3758861.81 449433.81 3758861.81 4.70833b (16120624) 449437.68 3758861.81 4.58805b (16120624) 449441.55 3758861.81 4.47611b (16120624) 449445.42

3758861.81	4.37140b (1612062	.4)		
449368.02	3758875.85	8.21906b	(16120624)	449371.89
3758875.85	7.89641b (1612062	.4)		
449375.76	3758875.85	7.59633b	(16120624)	449379.63
3758875.85	7.31719b (1612062	.4)		
449383.50	3758875.85	7.06293b	(16120624)	449387.37
3758875.85	6.81366b (1612062	.4)		
449391.24	3758875.85	6.58748b	(16120624)	449395.11
3758875.85	6.36698b (1612062	.4)		
449398.98	3758875.85	6.16019b	(16120624)	449402.85
3758875.85	5.96476b (1612062	4)		
449406.72	3758875.85	5.78039b	(16120624)	449410.59
3758875.85	5.60613b (1612062	4)		
449414.46	3758875.85	5.44123b	(16120624)	449418.33
3758875.85	5.28546b (1612062	4)		
449422.20	3758875.85	5.13712b	(16120624)	449426.07
3758875.85	4.99615b (1612062	4)		
449429.94	3758875.85	4.86201b	(16120624)	449433.81
3758875.85	4.73421b (1612062	4)		
449437.68	3758875.85	4.61281b	(16120624)	449441.55
3758875.85	4.49972b (1612062	4)		
449445.42	3758875.85	4.39433b	(16120624)	449368.02
3758889.89	8.22278b (1612062	4)		
449371.89	3758889.89	7.90099b	(16120624)	449375.76
3758889.89	7.60230b (1612062	4)		
449379.63	3758889.89	7.33612b	(16120624)	449383.50
3758889.89	7.07667b (1612062	4)		
449387.37	3758889.89	6.83854b	(16120624)	449391.24
3758889.89	6.60643b (1612062	4)		
449395.11	3758889.89	6.39425b	(16120624)	449398.98
3758889.89	6.18708b (1612062	4)		
449402.85	3758889.89	5.99187b	(16120624)	449406.72
3758889.89	5.80726b (1612062	4)		
449410.59	3758889.89	5.63257b	(16120624)	449414.46
3758889.89	5.46725b (1612062	.4)		
449418.33	3758889.89	5.31045b	(16120624)	449422.20
3758889.89	5.16213b (1612062	.4)		
449426.07	3758889.89	5.02063b	(16120624)	449429.94
3758889.89	4.88598b (1612062	.4)		
449433.81	3758889.89	4.75765b	(16120624)	449437.68
3758889.89	4.63524b (1612062	.4)		
449441.55	3758889.89	4.52201b	(16120624)	449445.42
3758889.89	4.41597b (1612062	.4)		
449368.02	3758903.93	8.21643b	(16120624)	449371.89
3758903.93	7.89558b (1612062	4)		
449375.76	3758903.93	7.59919b	(16120624)	449379.63
3758903.93	7.32387b (1612062	.4)		
449383.50	3758903.93	7.08126b	(16120624)	449387.37
3758903.93	6.84102b (1612062	.4)		
449391.24	3758903.93	6.62398b	(16120624)	449395.11

3758903.93	6.40920b (16120624)	
449398.98	3758903.93 6.21332b (161	20624) 449402.85
3758903.93	6.01965b (16120624)	
449406.72	3758903.93 5.84295b (161	20624) 449410.59
3758903.93	5.66807b (16120624)	
449414.46	3758903.93 5.50115b (161	20624) 449418.33
3758903.93	5.34271b (16120624)	
449422.20	3758903.93 5.19205b (161	20624) 449426.07
3758903.93	5.04870b (16120624)	
449429.94	3758903.93 4.91216b (161	20624) 449433.81
3758903.93	4.78195b (16120624)	
449437.68	3758903.93 4.65770b (161	20624) 449441.55
3758903.93	4.54253b (16120624)	
449445.42	3758903.93 4.43631b (161	20624) 449368.02
3758917.97	8.16982b (16120624)	
449371.89	3758917.97 7.85030b (161	20624) 449375.76
3758917.97	7.55450b (16120624)	
449379.63	3758917.97 7.28108b (161	20624) 449383.50
3758917.97	7.05215b (16120624)	
449387.37	3758917.97 6.81874b (161	20624) 449391.24
3758917.97	6.61268b (16120624)	
449395.11	3758917.97 6.40415b (161	20624) 449398.98
3758917.97	6.21835b (16120624)	
★ *** AERMOD - VER	SION 19191 *** *** C:\LAKES\AE	RMOD VIEW\14172
HRA\PM10\PM10.ISC	***	11/11/21
*** AERMET - VERS	ION 16216 *** ***	
	*** 11:46:36	
		7 U.¥
MUDELUPIS:	REGULAULI CUNC ELEV URBAN AD	J_0

						***	THE	1ST	HIGHEST	24-HR	AVERAGE	CONCEN	TRATION
VA	LUES	FOR	SOURC	E GROUP:	ALL		***						
							INCLU	DING	SOURCE (	S):	L00000	<i>)</i> 1,	L0000002
ر	L000	80003	ر ا	L0000004	ر	L0	000005		,				
				L0000006	,	L0	000007	2	, L00000	80	, L00000	ð9,	L0000010
ر	L000	00011	, ,	L0000012	,	L0	000013	2	,				
				L0000014	,	L0	000015	2	, L00000:	16	, L00000	17,	L0000018
ر	L000	00019	, (	L0000020	,	L0	000021	2	,				
				L0000022	ر	L0	000023		, L000002	24	, L00000	25,	L0000026
ر													

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

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\*\* CONC OF PM\_10 IN MICROGRAMS/M\*\*3

 X-COORD (M)
 Y-COORD (M)
 CONC
 (YYMMDDHH)
 X-COORD (M)

 Y-COORD (M)
 CONC
 (YYMMDDHH)
 X-COORD (M)

449402.85	3758917.97 6	 .03007b	(16120624)	44940
3758917.97	5.86048b (16120624)		()	
449410.59	3758917.97 5	.68852b	(16120624)	44941
3758917.97	5.53023b (16120624)		()	
449418.33	3758917.97 5	5.37740b	(16120624)	44942
3758917.97	5.22459b (16120624)		()	
449426.07	3758917.97 5	.07874b	(16120624)	44942
3758917.97	4.93895b (16120624)			
449433.81	3758917.97 4	1.80586b	(16120624)	44943
3758917.97	4.67865b (16120624)			
449441.55	3758917.97 4	.56213b	(16120624)	44944
3758917.97	4.45489b (16120624)			
449368.02	3758932.01 8	3.13179b	(16120624)	44937
3758932.01	7.81143b (16120624)			
449375.76	3758932.01 7	'.51542b	(16120624)	44937
3758932.01	7.24157b (16120624)			
449383.50	3758932.01 7	'.00034b	(16120624)	44938
3758932.01	6.79457b (16120624)			
449391.24	3758932.01 6	57956b	(16120624)	44939
3758932.01	6.39225b (16120624)			
449398.98	3758932.01 6	.19880b	(16120624)	44940
3758932.01	6.02809b (16120624)			
449406.72	3758932.01 5	.85292b	(16120624)	44941
3758932.01	5.69685b (16120624)			
449414.46	3758932.01 5	.54318b	(16120624)	44941
3758932.01	5.38580b (16120624)			
449422.20	3758932.01 5	.24137b	(16120624)	44942
3758932.01	5.10183b (16120624)			
449429.94	3758932.01 4	.96119b	(16120624)	44943
3758932.01	4.82655b (16120624)			
449437.68	3758932.01 4	.69803b	(16120624)	44944
3758932.01	4.57989b (16120624)			
449445.42	3758932.01 4	.47093b	(16120624)	44936
3758946.05	8.09639b (16120624)			
449371.89	3758946.05 7	'.77618b	(16120624)	44937
3758946.05	7.48048b (16120624)			
449379.63	3758946.05 7	20715b.	(16120624)	44938
3758946.05	6.99573b (16120624)		(	
449387.37	3758946.05 6	.77062b	(16120624)	44939
3758946.05	6.57828b (16120624)			
449395.11	3758946.05 6	.37706b	(16120624)	44939
3/58946.05	6.20112b (16120624)	010101	(1 (1 2 0 ( 2 4 )	4 4 0 4 0
449402.85	3/58946.05 6	.019190	(16120624)	44940
3/58946.05	5.85844D (16120624)		(1(1))(2)()	44044
449410.59		, hyddahn		44941
2750046 05	3/58946.05 5		(1012002+)	
3758946.05	3758946.05 5 5.54453b (16120624)	20040	(16120624)	11010
3758946.05 449418.33	3758946.05 5 5.54453b (16120624) 3758946.05 5	.39848b	(16120624)	44942

449426.07	3758946.05 5.11126b (16120624)	449429.94
3758946.05	4.97781b (16120624)	
449433.81	3758946.05 4.84342b (16120624)	449437.68
3758946.05	4.71461b (16120624)	
449441.55	3758946.05 4.59506b (16120624)	449445.42
3758946.05	4.48374b (16120624)	
449368.02	3758960.09 8.06052b (16120624)	449371.89
3758960.09	7.74124b (16120624)	
449375.76	3758960.09 7.44625b (16120624)	449379.63
3758960.09	7.17361b (16120624)	
449383.50	3758960.09 6.96912b (16120624)	449387.37
3758960.09	6.74565b (16120624)	
449391.24	3758960.09 6.55813b (16120624)	449395.11
3758960.09	6.35801b (16120624)	
449398.98	3758960.09 6.18646b (16120624)	449402.85
3758960.09	6.00618b (16120624)	
449406.72	3758960.09 5.84871b (16120624)	449410.59
3758960.09	5.68537b (16120624)	
449414.46	3758960.09 5.54118b (16120624)	449418.33
3758960.09	5.39914b (16120624)	
449422.20	3758960.09 5.25189b (16120624)	449426.07
3758960.09	5.11698b (16120624)	
449429.94	3758960.09	449433.81
3758960.09	4.85858b (16120624)	
449437.68	3758960.09 4.73001b (16120624)	449441.55
3758960.09	4.60925b (16120624)	
449445.42	3758960.09 4.49501b (16120624)	449368.02
3758974.13	8.09198b (16120624)	
449371.89	3758974.13 7.77108b (16120624)	449375.76
3758974.13	7.47461b (16120624)	
449379.63	3758974.13 7.20054b (16120624)	449383.50
3758974.13	6.98692b (16120624)	
★ *** AERMOD - VER	RSION 19191 *** *** C:\LAKES\AERMOD VIEW\1417	2
HRA\PM10\PM10.ISC	*** 11/11/21	
*** AERMET - VERS	ION 16216 *** ***	
	*** 11:46:36	

PAGE 22 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

	*** THE	1ST HIGHEST 24-	HR AVERAGE CON	CENTRATION
VALUES FOR SOURCE GROUP: AL	L ***			
	INCLU	DING SOURCE(S):	L0000001	, L0000002
,L0000003 ,L0000004	, L0000005	ر		
L000006	, L0000007	, L0000008	, L0000009	, L0000010
,L0000011 ,L0000012	, L0000013	و		
L0000014	, L0000015	, L0000016	, L0000017	, L0000018
,L0000019 ,L0000020	, L0000021	و		
L0000022	, L0000023	, L0000024	, L0000025	, L0000026
ر				

## \*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\* CONC OF PM\_10 IN MICROGRAMS/M\*\*3

X-COORD (M) Y-COORD (M)	Y-COORD (M) CONC (YYMMDDHH	CONC I)	(YYMMDDHH)	X-COORD (M)
449387.37	3758974.13		(16120624)	449391.24
3758974.13	6.54329b (16120624	)	()	
449395.11	3758974.13	6.36255b	(16120624)	449398.98
3758974.13	6.17161b (16120624	.)	(	
449402.85	3758974.13	6.00734b	(16120624)	449406.72
3758974.13	5.83535b (16120624	.)		
449410.59	3758974.13	5.67322b	(16120624)	449414.46
3758974.13	5.53303b (16120624	.)		
449418.33	3758974.13	5.39532b	(16120624)	449422.20
3758974.13	5.26001b (16120624	.)		
449426.07	3758974.13	5.11939b	(16120624)	449429.94
3758974.13	4.99056b (16120624	.)		
449433.81	3758974.13	4.86538b	(16120624)	449437.68
3758974.13	4.74372b (16120624	.)		
449441.55	3758974.13	4.62163b	(16120624)	449445.42
3758974.13	4.50549b (16120624	.)		
449368.02	3758988.17	8.11693b	(16120624)	449371.89
3758988.17	7.79414b (16120624	.)		
449375.76	3758988.17	7.49609b	(16120624)	449379.63
3758988.17	7.21994b (16120624	.)		
449383.50	3758988.17	6.99999b	(16120624)	449387.37
3758988.17	6.76779b (16120624	.)	(4 6 4 2 2 6 2 4 )	440205 44
449391.24	3/58988.1/	6.550300	(16120624)	449395.11
3/58988.1/	6.345520 (16120624	·)	(1 (1 ) ) () () () () () () () () () () () ()	440400.05
449398.98	3/58988.1/	6.1/30/0	(16120624)	449402.85
3/58988.1/	5.991090 (16120624	·) F 010766	(16120624)	440410 50
449400.72	3/38988.1/ E (73736 (16138634	5.818/60	(16120624)	449410.59
3/30900.1/	5.0/2/30 (10120024 2750000 17	·) E E01106	(16120624)	440419 22
449414.40 3750000 17	5/30300.1/ 5 38737h (1613063/	3.321100	(10120024)	449418.55
00 CCNDNN	3758088 17	·) 5 25542h	(16120624)	449426 07
3758988 17	5 117396 (16120624	)	(10120024)	449420:07
149429 94	3758988 17	·) 4 99162h	(16120624)	449433 81
3758988,17	4.86857h (16120624	.)	(1012002+)	++>+>>>
449437.68	3758988.17	4.74892h	(16120624)	449441.55
3758988.17	4.62715b (16120624	.)	(10110027)	
449445.42	3758988.17	4.51477b	(16120624)	449368.02
3759002.21	8.06667b (16120624	.)	、	
449371.89	3759002.21	7.74520b	(16120624)	449375.76

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	3759002.21	7.44828b (16120624)	
	449379.63	3759002.21 7.17395b (16120624)	449383.50
	3759002.21	6.96701b (16120624)	
	449387.37	3759002.21 6.73946b (16120624)	449391.24
	3759002.21	6.55114b (16120624)	
	449395.11	3759002.21 6.34964b (16120624)	449398.98
	3759002.21	6.15946b (16120624)	
	449402.85	3759002.21 5.99743b (16120624)	449406.72
	3759002.21	5.82649b (16120624)	
	449410.59	3759002.21 5.67895b (16120624)	449414.46
	3759002.21	5.52523b (16120624)	
	449418.33	3759002.21 5.38959b (16120624)	449422.20
	3759002.21	5.24751b (16120624)	
	449426.07	3759002.21 5.12011b (16120624)	449429.94
	3759002.21	4.99553b (16120624)	
	449433.81	3759002.21 4.86738b (16120624)	449437.68
	3759002.21	4.75101b (16120624)	
	449441.55	3759002.21 4.63095b (16120624)	449445.42
	3759002.21	4.52010b (16120624)	
	449368.02	3759016.25 8.05110b (16120624)	449371.89
	3759016.25	7.73059b (16120624)	
	449375.76	3759016.25 7.43446b (16120624)	449379.63
	3759016.25	7.16082b (16120624)	
	449383.50	3759016.25 6.92621b (16120624)	449387.37
	3759016.25	6.73693b (16120624)	
	449391.24	3/59016.25 6.52/65b (16120624)	449395.11
	3/59016.25	6.35269b (16120624)	440,400,05
	449398.98	3/59016.25 $6.164350$ $(16120624)$	449402.85
	3/59016.25	5.985960 (16120624)	440440 50
	449406.72	3/59016.25 $5.832/80$ (16120624)	449410.59
	3/59010.25	5.670310 (16120624)	110110 22
	449414.40	5/59010.25 $5.526510$ (10120024)	449418.33
	2/22010.22	2750016 25 5 24099b (16120624)	110126 07
	449422.20	5/59010.25 $5.240000$ (10120024)	449420.07
	1/0/20 0/	3750016 25 / 08008b (16120624)	1/0/33 81
	3759016 25	4.989900 (10120024)	449495.81
	<i>11</i> 9137 68	3759016 (10120024) 3759016 25 A 75005b (16120624)	<i>11</i> 9 <i>11</i> 1 55
	3759016 25	4 63846b (16120624)	
	449445,42	3759016.25 4.52268b (16120624)	449368.02
	3759030.29	8.12440b (16120624)	10000002
,	*** AERMOD - VFR	SION 19191 *** *** C:\LAKES\AERMOD VIEW\14172	
ŀ	HRA\PM10\PM10.ISC	*** 11/11/21	
-	*** AERMET - VERS	ION 16216 *** ***	
		*** 11:46:36	

PAGE 23 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: ALL \*\*\*

					INCLUD	ING SOURCE(S):	L000001	ر	L0000002
ر	L0000003	ر	L0000004	ر	L0000005	ر			
			L0000006	ر	L0000007	, L0000008	, L0000009	ر	L0000010
ر	L0000011	ر	L0000012	ر	L0000013	ر			
			L0000014	ر	L0000015	, L0000016	, L0000017	ر	L0000018
ر	L0000019	,	L0000020	,	L0000021	ر			
			L0000022	ر	L0000023	, L0000024	, L0000025	ر	L0000026

## \*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

ر

\*\*\*

\*\* CONC OF PM\_10 IN MICROGRAMS/M\*\*3

\*\*

X-COORD (M) Y-COORD (M)	Y-COORD CONC	(M) (YYMMDDHH)	CONC )	(YYMMDDHH)	X-COORD (M)
449371.89	3759030	.29	7.79925b	(16120624)	449375.76
3759030.29	7.49908b	(16120624)	)		
449379.63	3759030	.29	7.22175b	(16120624)	449383.50
3759030.29	7.00786b	(16120624)	)		
449387.37	3759030	.29	6.77988b	(16120624)	449391.24
3759030.29	6.58504b	(16120624)	)		
449395.11	3759030	.29	6.38130b	(16120624)	449398.98
3759030.29	6.20393b	(16120624)	)		
449402.85	3759030	.29	6.02009b	(16120624)	449406.72
3759030.29	5.85794b	(16120624)	)		
449410.59	3759030	.29	5.69102b	(16120624)	449414.46
3759030.29	5.54261b	(16120624)	)		
449418.33	3759030	.29	5.39149b	(16120624)	449422.20
3759030.29	5.24650b	(16120624)	)		
449426.07	3759030	.29	5.11699b	(16120624)	449429.94
3759030.29	4.98511b	(16120624)	)		
449433.81	3759030	.29	4.86613b	(16120624)	449437.68
3759030.29	4.74517b	(16120624)	)		
449441.55	3759030	.29	4.63338b	(16120624)	449445.42
3759030.29	4.51707b	(16120624)	)		
449368.02	3759044	.33	8.20865b	(16120624)	449371.89
3759044.33	7.87926b	(16120624)	)		
449375.76	3759044	.33	7.57540b	(16120624)	449379.63
3759044.33	7.29516b	(16120624)	)		
449383.50	3759044	.33	7.06519b	(16120624)	449387.37
3759044.33	6.82999b	(16120624)	)		
449391.24	3759044	.33	6.62334b	(16120624)	449395.11
3759044.33	6.41359b	(16120624)	)		
449398.98	3759044	.33	6.22725b	(16120624)	449402.85
3759044.33	6.03854b	(16120624)	)		

449406.72 3759044.33 5.86900b (16120624) 449410.59 3759044.33 5.69837b (16120624) 449414.46 3759044.33 5.53717b (16120624) 449418.33 3759044.33 5.39253b (16120624) 449422.20 3759044.33 5.24726b (16120624) 449426.07 3759044.33 5.10893b (16120624) 449429.94 3759044.33 4.98458b (16120624) 449433.81 3759044.33 4.85883b (16120624) 449437.68 3759044.33 4.73888b (16120624) 449441.55 3759044.33 4.62709b (16120624) 449445.42 3759044.33 4.51029b (16120624) ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 \*\*\* HRA\PM10\PM10.ISC 11/11/21 \*\*\* \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* 11:46:36 PAGE 24 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ U\* \*\*\* THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER 5 YEARS \*\*\* \*\* CONC OF PM 10 IN MICROGRAMS/M\*\*3 \*\* NETWORK GROUP ID AVERAGE CONC RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID 1ST HIGHEST VALUE IS 4.91002 AT ( 449368.02, 3759044.33, ALL 198.07, 198.07, 0.00) DC 2ND HIGHEST VALUE IS 4.90619 AT ( 449368.02, 3758889.89, 195.17, 195.17, 0.00) DC 3RD HIGHEST VALUE IS 4.90405 AT ( 449368.02, 3758903.93, 0.00) DC 195.79, 195.79, 4TH HIGHEST VALUE IS 4.90328 AT ( 449368.02, 3758875.85, 194.70, 194.70, 0.00) DC 5TH HIGHEST VALUE IS 4.89493 AT ( 449368.02, 3758861.81, 194.14, 194.14, 0.00) DC 4.87708 AT ( 449368.02, 3758917.97, 6TH HIGHEST VALUE IS 196.55, 196.55. 0.00) DC 7TH HIGHEST VALUE IS 4.86790 AT ( 449368.02, 3758847.77, 193.38, 193.38, 0.00) DC 8TH HIGHEST VALUE IS 4.85692 AT ( 449368.02, 3759030.29, 198.53, 198.53, 0.00) DC

9TH HIGHEST VALUE IS 4.85351 AT ( 449368.02, 3758932.01, 197.19, 0.00) DC 197.19, 10TH HIGHEST VALUE IS 4.84819 AT ( 449368.02, 3758988.17, 198.06, 198.06, 0.00) DC \*\*\* RECEPTOR TYPES: GC = GRIDCART GP = GRIDPOLRDC = DISCCART DP = DISCPOLR▲ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 HRA\PM10\PM10.ISC \*\*\* 11/11/21 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* \*\*\* 11:46:36 PAGE 25 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ U\* \*\*\* THE SUMMARY OF HIGHEST 24-HR **RESULTS** \*\*\* \*\* CONC OF PM 10 IN MICROGRAMS/M\*\*3 \*\* DATE NETWORK GROUP ID AVERAGE CONC (YYMMDDHH) RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID - - - - - - - - - - - -HIGH 1ST HIGH VALUE IS 8.22278b ON 16120624: AT ( 449368.02, ALL 3758889.89, 195.17, 195.17, 0.00) DC \*\*\* RECEPTOR TYPES: GC = GRIDCART GP = GRIDPOLRDC = DISCCART DP = DISCPOLR★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 HRA\PM10\PM10.ISC \*\*\* 11/11/21 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* \*\*\* 11:46:36 PAGE 26 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\* \*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- Summary of Total Messages ------A Total of 0 Fatal Error Message(s) A Total of 2 Warning Message(s) A Total of 1638 Informational Message(s) A Total of 43848 Hours Were Processed A Total of 1039 Calm Hours Identified A Total of 599 Missing Hours Identified ( 1.37 Percent) \*\*\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*\*\* \*\*\* NONE \*\*\* \*\*\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*\*\* MEOPEN: THRESH 1MIN 1-min ASOS wind speed threshold used ME W186 130 0.50 ME W187 130 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET \*\*\* AERMOD Finishes Successfully \*\*\* \*\* Lakes Environmental AERMOD MPI \*\* \*\* \*\* AERMOD INPUT PRODUCED BY: \*\* AERMOD VIEW VER. 10.0.1 \*\* LAKES ENVIRONMENTAL SOFTWARE INC. \*\* DATE: 11/11/2021 \*\* FILE: C:\LAKES\AERMOD VIEW\14172 HRA\PM25\PM25.ADI \*\* \*\*\*\*\*\* \*\* \*\* \*\* AERMOD CONTROL PATHWAY \*\*\*\*\*\* \*\* \*\* CO STARTING TITLEONE C:\LAKES\AERMOD VIEW\14172 HRA\PM25\PM25.ISC MODELOPT DFAULT CONC AVERTIME 24 URBANOPT 2189641

```
POLLUTID PM 2.5
  RUNORNOT RUN
  ERRORFIL PM25.ERR
CO FINISHED
**
** AERMOD SOURCE PATHWAY
**
**
SO STARTING
** SOURCE LOCATION **
** SOURCE ID - TYPE - X COORD. - Y COORD. **
** ______.
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE1
** DESCRSRC I-15 FREEWAY
** PREFIX
** LENGTH OF SIDE = 46.00
** CONFIGURATION = ADJACENT
** EMISSION RATE = 0.053663
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 2
** 449288.372, 3758373.924, 188.51, 3.49, 21.40
** 449298.585, 3759554.578, 201.92, 3.49, 21.40
** _____
                                 LOCATION L0000287
                      VOLUME
                               449288.571 3758396.923 188.77
  LOCATION L0000288
                      VOLUME
                               449288.969 3758442.921 189.29
                               449289.367 3758488.920 189.82
  LOCATION L0000289
                      VOLUME
                               449289.765 3758534.918 190.34
  LOCATION L0000290
                      VOLUME
  LOCATION L0000291
                      VOLUME
                               449290.163 3758580.916 190.86
  LOCATION L0000292
                               449290.561 3758626.914 191.38
                      VOLUME
  LOCATION L0000293
                      VOLUME
                               449290.958 3758672.913 191.91
                               449291.356 3758718.911 192.43
  LOCATION L0000294
                      VOLUME
  LOCATION L0000295
                      VOLUME
                               449291.754 3758764.909 192.95
                               449292.152 3758810.908 193.47
  LOCATION L0000296
                      VOLUME
                               449292.550 3758856.906 194.00
  LOCATION L0000297
                      VOLUME
  LOCATION L0000298
                               449292.948 3758902.904 194.52
                      VOLUME
                               449293.346 3758948.902 195.04
  LOCATION L0000299
                      VOLUME
  LOCATION L0000300
                      VOLUME
                               449293.744 3758994.901 195.56
  LOCATION L0000301
                      VOLUME
                               449294.142 3759040.899 196.09
  LOCATION L0000302
                      VOLUME
                               449294.540 3759086.897 196.61
  LOCATION L0000303
                      VOLUME
                               449294.938 3759132.895 197.13
                               449295.335 3759178.894 197.65
  LOCATION L0000304
                      VOLUME
                               449295.733 3759224.892 198.18
  LOCATION L0000305
                      VOLUME
                               449296.131 3759270.890 198.70
  LOCATION L0000306
                      VOLUME
  LOCATION L0000307
                      VOLUME
                               449296.529 3759316.889 199.22
                               449296.927 3759362.887 199.74
  LOCATION L0000308
                      VOLUME
  LOCATION L0000309
                      VOLUME
                               449297.325 3759408.885 200.27
```

	LOCATION L0000310	VOLUME	449297.723	3759454.883	200.79			
	LOCATION L0000311	VOLUME	449298.121	3759500.882	201.31			
	LOCATION L0000312	VOLUME	449298.519	3759546.880	201.83			
**	END OF LINE VOLUME	SOURCE ID =	SLINE1					
**	SOURCE PARAMETERS	**						
**	LINE VOLUME SOURCE	ID = SLINE1						
	SRCPARAM L0000287	0.0020639	9615 3	.49 21.4	0 3.25			
	SRCPARAM L0000288	0.0020639	9615 3	.49 21.4	0 3.25			
	SRCPARAM L0000289	0.0020639	9615 3	.49 21.4	0 3.25			
	SRCPARAM L0000290	0.002063	9615 3	.49 21.4	0 3.25			
	SRCPARAM L0000291	0.0020639	9615 3	.49 21.4	0 3.25			
	SRCPARAM L0000292	0.0020639	9615 3	.49 21.4	0 3.25			
	SRCPARAM 1 0000293	0.002063	9615 3	.49 21.4	0 3.25			
	SRCPARAM 10000294	0,002063	9615 3	. 49 21.4	0 3.25			
	SRCPARAM 1 0000295	0.002063	9615 3	. 49 21.4	0 3.25			
	SRCPARAM 1 0000295	0.002003	9615 3	.49 21.4 49 21 4	.0 3.25			
	SRCPARAM L0000290	0.002003	9615 3	.45 21.4 /19 21 /	0 3 25			
	SRCPARAM 10000207	0.002003	A615 3	,45 21.4 /0 21 /	0 3 25			
		0.002003	015 5	,49 21.4 10 21 1	0 3.25			
		0.002003		.49 21.4 10 21 1	0 3.25			
		0.002003		·49 21.4	0 3.25			
		0.002003		.49 21.4	0 2.25			
		0.002003		.49 21.4				
	SRCPARAM L0000303	0.002003		.49 21.4				
	SRCPARAM L0000304	0.002063		.49 21.4	0 3.25			
	SRCPARAM L0000305	0.002063	3615 3	.49 21.4	-0 3.25			
	SRCPARAM L0000306	0.0020639	3615 3	.49 21.4	0 3.25			
	SRCPARAM L0000307	0.002063	9615 3	.49 21.4	0 3.25			
	SRCPARAM L0000308	0.002063	9615 3	.49 21.4	.0 3.25			
	SRCPARAM L0000309	0.0020639	9615 3	.49 21.4	0 3.25			
	SRCPARAM L0000310	0.0020639	9615 3	.49 21.4	0 3.25			
	SRCPARAM L0000311	0.0020639	9615 3	.49 21.4	0 3.25			
	SRCPARAM L0000312	0.0020639	9615 3	.49 21.4	.0 3.25			
**								
	URBANSRC ALL							
	SRCGROUP ALL							
S0	FINISHED							
**								
***	*****************	**********	*****					
**	AERMOD RECEPTOR PA	THWAY						
***	******	**********	*****					
**								
**								
RE	STARTING							
	INCLUDED PM25.ROU							
RE	FINISHED							
**	**							
***	******	*********	*****					
**	AERMOD METEOROLOGY	PATHWAY						
***	*******	********	*****					
**								

\*\* ME STARTING SURFFILE ..\KRAL\_V9\_ADJU\KRAL\_V9.SFC PROFFILE ..\KRAL\_V9\_ADJU\KRAL\_V9.PFL SURFDATA 3171 2012 UAIRDATA 3190 2012 PROFBASE 245.0 METERS ME FINISHED \*\* \*\* AERMOD OUTPUT PATHWAY \*\* \*\* OU STARTING **RECTABLE ALLAVE 1ST RECTABLE 24 1ST \*\*** AUTO-GENERATED PLOTFILES PLOTFILE 24 ALL 1ST PM25.AD\24H1GALL.PLT 31 SUMMFILE PM25.SUM OU FINISHED \*\*\* Message Summary For AERMOD Model Setup \*\*\* ----- Summary of Total Messages ------A Total of 0 Fatal Error Message(s) A Total of 2 Warning Message(s) A Total of 0 Informational Message(s) \*\*\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*\*\* \*\*\* NONE \*\*\* \*\*\*\*\*\*\* \*\*\*\*\*\* WARNING MESSAGES ME W186 130 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50 ME W187 130 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET \*\*\* SETUP Finishes Successfully \*\*\* ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 \*\*\* HRA\PM25\PM25.ISC 11/11/21 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* 12:00:31 \*\*\*

PAGE 1 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ U\* \*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\* . . . . . . . . . . . . . . . \*\*Model Is Setup For Calculation of Average CONCentration Values. -- DEPOSITION LOGIC --\*\*NO GAS DEPOSITION Data Provided. \*\*NO PARTICLE DEPOSITION Data Provided. \*\*Model Uses NO DRY DEPLETION. DRYDPLT = F \*\*Model Uses NO WET DEPLETION. WETDPLT = F \*\*Model Uses URBAN Dispersion Algorithm for the SBL for 26 Source(s), 1 Urban Area(s): for Total of Urban Population = 2189641.0 ; Urban Roughness Length = 1.000 m \*\*Model Uses Regulatory DEFAULT Options: 1. Stack-tip Downwash. 2. Model Accounts for ELEVated Terrain Effects. 3. Use Calms Processing Routine. 4. Use Missing Data Processing Routine. 5. No Exponential Decay. 6. Urban Roughness Length of 1.0 Meter Assumed. \*\*Other Options Specified: ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET CCVR\_Sub - Meteorological data includes CCVR substitutions TEMP Sub - Meteorological data includes TEMP substitutions \*\*Model Assumes No FLAGPOLE Receptor Heights. \*\*The User Specified a Pollutant Type of: PM 2.5 \*\*Model Calculates 1 Short Term Average(s) of: 24-HR \*\*This Run Includes: 26 Source(s); 1 Source Group(s); and 441 Receptor(s) with: 0 POINT(s), including 0 POINTCAP(s) and Ø POINTHOR(s) 26 VOLUME source(s) and: and: Ø AREA type source(s) and: 0 LINE source(s) and: 0 RLINE/RLINEXT source(s) and: 0 OPENPIT source(s)

\*\*Model Set To Continue RUNning After the Setup Testing. \*\*The AERMET Input Meteorological Data Version Date: 16216 \*\*Output Options Selected: Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword) Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword) Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword) \*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours m for Missing Hours b for Both Calm and Missing Hours \*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 245.00 : Decav 0.000 ; Rot. Angle = Coef. = 0.0 Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+07 Output Units = MICROGRAMS/M\*\*3 \*\*Approximate Storage Requirements of Model = 3.6 MB of RAM. \*\*Input Runstream File: aermod.inp \*\*Output Print File: aermod.out \*\*Detailed Error/Message File: PM25.ERR \*\*File for Summary of Results: PM25.SUM ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 HRA\PM25\PM25.ISC \*\*\* 11/11/21 \*\*\* \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* 12:00:31 PAGE 2 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\* \*\*\* VOLUME SOURCE DATA \*\*\*

NUMBER EMISSION RATE

BASE RELEASE INIT.

INIT. URBAN	EMISSI	ON RATE					
SOURCE	PART.	(GRAMS/SEC)	Х	Y	ELEV.	HEIGHT	SY
SZ SOURCE	SCALAR	VARY					
ID	CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		BY	. ,	. ,	. ,		. ,
` ´							
L0000287	0	0.20640E-02	449288.6	3758396.9	188.8	3.49	21.40
3.25 YES	-						
10000288	0	0.20640F-02	449289.0	3758442.9	189.3	3.49	21.40
3.25 YES	· ·					2112	
1 0000289	a	0 20640F-02	449289 4	3758488 9	189 8	3 49	21 40
3 25 VES	Ū	0.200401 02		5750-00.5	105.0	5.45	21.40
10000290	a	0 20640F-02	119289 8	3758534 9	190 3	3 49	21 40
2 25 VES	0	0.200401-02	449209.0	.,+	190.5	5.45	21.40
	Q	0 206405 02	110200 2	2750500 0	100 0	2 40	21 40
	0	0.200402-02	449290.2	5,9959515	190.9	5.49	21.40
	٥	0 206405 02	110200 C	2759626 0	101 4	2 40	21 40
	0	0.20040E-02	449290.0	5/58620.9	191.4	5.49	21.40
3.25 YES	0	0 006405 00	440204 0	2750672 0	101 0	2 40	24 40
L0000293	0	0.20640E-02	449291.0	3/586/2.9	191.9	3.49	21.40
3.25 YES							
L0000294	0	0.20640E-02	449291.4	3/58/18.9	192.4	3.49	21.40
3.25 YES	-						
L0000295	0	0.20640E-02	449291.8	3758764.9	193.0	3.49	21.40
3.25 YES							
L0000296	0	0.20640E-02	449292.2	3758810.9	193.5	3.49	21.40
3.25 YES							
L0000297	0	0.20640E-02	449292.5	3758856.9	194.0	3.49	21.40
3.25 YES							
L0000298	0	0.20640E-02	449292.9	3758902.9	194.5	3.49	21.40
3.25 YES							
L0000299	0	0.20640E-02	449293.3	3758948.9	195.0	3.49	21.40
3.25 YES							
L0000300	0	0.20640E-02	449293.7	3758994.9	195.6	3.49	21.40
3.25 YES							
L0000301	0	0.20640E-02	449294.1	3759040.9	196.1	3.49	21.40
3.25 YES							
L0000302	0	0.20640E-02	449294.5	3759086.9	196.6	3.49	21.40
3.25 YES							
L0000303	0	0.20640E-02	449294.9	3759132.9	197.1	3.49	21.40
3.25 YES							
L0000304	0	0.20640E-02	449295.3	3759178.9	197.7	3.49	21.40
3.25 YES							
L0000305	0	0.20640E-02	449295.7	3759224.9	198.2	3.49	21.40
3.25 YES							
L0000306	0	0.20640E-02	449296.1	3759270.9	198.7	3.49	21.40
3.25 YES	-						
L0000307	0	0.20640E-02	449296.5	3759316.9	199.2	3.49	21.40
3.25 VFS	-					2.12	

0.20640E-02 449296.9 3759362.9 199.7 3.49 L0000308 0 21.40 3.25 YES L0000309 0 0.20640E-02 449297.3 3759408.9 200.3 3.49 21.40 3.25 YES L0000310 0 0.20640E-02 449297.7 3759454.9 200.8 3.49 21.40 3.25 YES 0 0.20640E-02 449298.1 3759500.9 201.3 3.49 21.40 L0000311 3.25 YES L0000312 0 0.20640E-02 449298.5 3759546.9 201.8 3.49 21.40 3.25 YES ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 \*\*\* HRA\PM25\PM25.ISC 11/11/21 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* \*\*\* 12:00:31 PAGE 3 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ U\* \*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\* SRCGROUP ID SOURCE IDs \_ ALL L0000287 ,L0000288 ,L0000289 , L0000290 , L0000291 L0000292 , L0000293 , L0000294 , , L0000296 , L0000297 , L0000298 L0000295 , L0000299 , L0000302 L0000300 , L0000301 , , L0000304 , L0000305 , L0000306 L0000303 , L0000307 , L0000308 , L0000309 , L0000310 ر L0000311 , L0000312 ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 HRA\PM25\PM25.ISC \*\*\* 11/11/21 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* \*\*\* 12:00:31 PAGE 4 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ U\* \*\*\* SOURCE IDs DEFINED AS URBAN SOURCES

\*\*\*

URBAN ID URBAN POP

SOURCE IDs

L0000287 , L0000288 2189641. , L0000289 , L0000290 , , L0000292 L0000291 , L0000293 , L0000294 ر , L0000298 L0000295 , L0000296 , L0000299 , L0000297 ر , L0000302 L0000300 , L0000301 ر L0000303 , L0000304 , L0000305 , L0000306 , L0000307 • L0000308 , L0000310 , L0000309 , L0000311 , L0000312 ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 HRA\PM25\PM25.ISC \*\*\* 11/11/21 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* \*\*\* 12:00:31 PAGE 5 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\* \*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\* (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG) (METERS) 192.6, (449368.0, 3758763.5, 195.0, 0.0); ( 449371.9, 0.0); 3758763.5, 192.2, 195.0, 191.8, (449375.8, 3758763.5, 195.0, 0.0); (449379.6,195.0, 0.0); 3758763.5, 191.4, 191.2, (449383.5, 3758763.5, 0.0); (449387.4)195.0, 0.0); 195.0, 3758763.5, 190.9, 190.6, (449391.2, 3758763.5, 0.0); (449395.1,190.6, 190.4, 0.0); 3758763.5, 190.4, 190.1, (449399.0, 3758763.5, 190.1, 0.0); (449402.8)189.9, 0.0); 3758763.5, 189.9, 189.6, (449406.7, 3758763.5, 189.6, 0.0); (449410.6)0.0); 189.4, 189.4, 3758763.5, (449414.5, 3758763.5, 189.3, 0.0);189.3, (449418.3,3758763.5, 189.1, 189.1, 0.0);

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( 449437	.7, 3758763.	5, 188.5	, 188.5,	0.0);	( 449441.5
3758763.5,	188.4,	188.4,	0.0);		
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( 449371	.9, 3758777.	6, 192.0	, 195.0,	0.0);	( 449375.8,
3758777.6,	191.5,	195.0,	0.0);		
( 449379	.6, 3758777.	6, 191.0	, 195.0,	0.0);	( 449383.5

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( 449387	.4, 3758777.	6, 190.5,	195.0,	0.0);	( 449391.2,
3758777.6,	190.3,	195.0,	0.0);		
( 449395	.1, 3758777.	6, 190.0,	195.0,	0.0);	( 449399.0,
3758777.6,	189.7,	195.0,	0.0);		
( 449402	.8, 3758777.	6, 189.5,	195.0,	0.0);	( 449406.7,
3758777.6,	189.2,	195.0,	0.0);		
( 449410	.6, 3758777.	6, 189.0,	189.0,	0.0);	( 449414.5,
3758777.6,	188.9,	188.9,	0.0);		
( 449418	.3, 3758777.	6, 188.8,	188.8,	0.0);	( 449422.2,
3758777.6,	188.6,	188.6,	0.0);		•
( 449426	.1, 3758777.	6, 188.5,	188.5,	0.0);	( 449429.9,
3758777.6,	188.4,	188.4,	0.0);	, -	,
( 449433	.8, 3758777.	6, 188.2,	188.2,	0.0);	( 449437.7,
3758777.6,	188.1,	188.1,	0.0);	,,,	
( 449441	.5, 3758777.	6, 188.0,	188.0,	0.0);	( 449445.4,
3758777.6,	188.0,	188.0,	0.0);	,,,	
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( 449375	.8. 3758791.	6. 191.9.	195.0.	0.0);	( 449379.6.
3758791.6.	191.5.	195.0.	0.0):		· · · ·
( 449383	.5. 3758791.	6. 191.2.	195.0.	0.0);	( 449387.4,
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( 449391	.2. 3758791.	6. 190.7.	190.7.	0.0);	( 449395.1,
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( 449399	.0. 3758791.	6. 190.2.	190.2.	0.0);	( 449402.8.
3758791.6.	190.0.	190.0.	0.0):	,,	(
( 449406	.7. 3758791.	6. 189.7.	189.7.	0.0);	( 449410.6.
3758791.6.	189.5.	189.5.	0.0):	,,	(
( 449414	.5. 3758791.	6. 189.3.	189.3.	0.0):	( 449418.3.
3758791.6.	189.2.	189.2.	0.0):		(
( 449422	.2. 3758791.	6. 189.1.	189.1.	0.0);	( 449426.1.
3758791.6.	189.0.	189.0.	0.0):	,,	(
( 449429	.9. 3758791.	6. 188.8.	188.8.	0.0):	( 449433.8.
3758791.6.	188.7.	188.7.	0.0):	,	(
( 449437	.7. 3758791.	6. 188.6.	188.6.	0.0):	( 449441.5.
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( 449445	.4. 3758791.	6. 188.4.	188.4.	0.0):	( 449368.0.
3758805.6.	192.8.	192.8.	0.0):	010/5	( 11550010)
( 449371	.9. 3758805.	6. 192.5.	192.5.	0.0):	( 449375.8.
3758805.6.	192.2.	192.2.	0.0):	,	(
( 449379	.6. 3758805	6. 192.0.	192.0.	0.0):	( 449383.5.
3758805.6.	191.7.	191.7.	9.9):	0.0/,	( ++))00.03
( 449387	4. 3758805.	6. 191.5.	191.5.	0.0):	( 449391 2
3758805.6.	191.2.	191.2.	9.9):	0.0/5	( 11999212)
<i>( 11</i> 9395	1 3758805	6 190 9	190 9	9 9).	( 119399 0
3758805 6	190.7	190.7.	9.9):	0.0/5	( ++>>>>.0,
( 449407	.8. 3758805	6. 190 4	190 4	0.0);	( 119106 7
3758805.6.	190.2	190.2	0.0):	0.0/5	( 1940017)
( 449410	.6. 3758805	6. 189.9	189.9	0.0):	( 449414 5
(		-,		/5	<pre></pre>

3758805.6, 189.8, 189.8, 0.0); (449418.3, 3758805.6, 189.7, 189.7, 0.0); (449422.2,3758805.6, 0.0); 189.6, 189.6, 189.4, (449429.9)(449426.1, 3758805.6, 189.4, 0.0); 189.3, 0.0); 3758805.6, 189.3, 189.2, ( 449433.8, 3758805.6, 189.2, 0.0); (449437.7, 189.0, 0.0); 3758805.6, 189.0, 188.9, (449441.5, 3758805.6, 0.0); (449445.4)188.9, 188.8, 3758805.6, 188.8, 0.0); 192.8, (449368.0, 3758819.7, 0.0); 192.8, (449371.9,192.5, 0.0); 3758819.7, 192.5, 192.2, (449375.8, 3758819.7, 0.0); 192.2, (449379.6, 3758819.7, 192.0, 192.0, 0.0); (449383.5, 3758819.7, 191.7, (449387.4)191.7, 0.0); 191.5, 0.0); 3758819.7, 191.5, ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 \*\*\* HRA\PM25\PM25.ISC 11/11/21 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* \*\*\* 12:00:31

PAGE 6 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

( 449391	.2, 3758819.	7, 191.2,	191.2,	0.0);	( 449395.1,
3758819.7,	191.0,	191.0,	0.0);		
( 449399	.0, 3758819.	7, 190.7,	190.7,	0.0);	( 449402.8,
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( 449406	.7, 3758819.	7, 190.2,	190.2,	0.0);	( 449410.6,
3758819.7,	190.0,	190.0,	0.0);		
( 449414	.5, 3758819.	7, 189.8,	189.8,	0.0);	( 449418.3,
3758819.7,	189.7,	189.7,	0.0);		
( 449422	.2, 3758819.	7, 189.6,	189.6,	0.0);	( 449426.1,
3758819.7,	189.5,	189.5,	0.0);		
( 449429	.9, 3758819.	7, 189.3,	189.3,	0.0);	( 449433.8,
3758819.7,	189.2,	189.2,	0.0);		
( 449437	.7, 3758819.	7, 189.1,	189.1,	0.0);	( 449441.5,
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( 449445	.4, 3758819.	7, 188.8,	188.8,	0.0);	( 449368.0,
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( 449371	.9, 3758833.	7, 192.5,	192.5,	0.0);	( 449375.8,
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( 449379	.6, 3758833.	7, 192.0,	192.0,	0.0);	(449383.5,
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( 449387	.4, 3758833.	7, 191.5,	191.5,	0.0);	( 449391.2,
3758833.7,	191.2,	191.2,	0.0);		
( 449395	.1, 3758833.	7, 191.0,	191.0,	0.0);	( 449399.0,

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( 449402.	8, 3758833.	7, 190.4,	190.4,	0.0);	( 449406.7,
3758833.7,	190.2,	190.2,	0.0);		
( 449410.	6, 3758833.	7, 190.0,	190.0,	0.0);	( 449414.5,
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( 449433.	8, 3758833.	7, 189.2,	189.2,	0.0);	(449437.7,
3758833.7,	189.1,	189.1,	0.0);		
( 449441.	5, 3758833.	7, 188.9,	188.9,	0.0);	( 449445.4,
3758833.7,	188.8,	188.8,	0.0);	,,,	, j
( 449368.	0, 3758847.	8, 193.4,	193.4,	0.0);	( 449371.9,
3758847.8,	193.2,	193.2,	0.0);	,,,	, j
( 449375.	8, 3758847.	8, 193.0,	193.0,	0.0);	( 449379.6,
3758847.8.	192.8.	192.8.	0.0);	,,,	· · · ·
( 449383.	5. 3758847.	8. 192.5.	192.5.	0.0);	( 449387.4.
3758847.8.	192.2.	192.2.	0.0):	,	(
( 449391.	2. 3758847.	8. 192.0.	192.0.	0.0):	( 449395.1.
3758847.8.	191.7.	191.7.	0.0):	,	(
( 449399.	0. 3758847	8. 191.5.	191.5.	0.0):	( 449402 8
3758847 8	191 2	191 2	0 0)·	0.075	( 11510210)
( 449406	7 3758847	x 191 0	191 0	0 9)·	( 449410 6
37588/17 8	190 7	100 7	0 0)·	0.0),	( ++)+10.0;
/ //0/1/	5 3758847	190.7, Q 100 5	100 5	0 0).	( 110118 3
2758847 8	100 /	100 /	190.5,	0.0),	( 449410.5,
<i>J</i> /J004/.0, / <i>A</i> /Q/JJ	190.4, 0 0750017	190.4, 0 100.2	100.2	0 0).	( 110126 1
2750017 0	100 0	100 0	190.2,	0.0),	( 449420.1,
5/5004/.0,	190.0, 0 2750017	190.0, 0 100.0	100 0	0 0).	( 110122 0
2750047 0	190 6	0, 109.0, 190.6	109.0,	0.0),	( 449455.0,
5/5004/.0, / //0/27	109.0, 7 2750017	109.0, 0 100 E	190 E	0 0).	( 440441 E
( 449437.	100 2	8, 189.5,	189.5,	0.0);	( 449441.5,
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( 4493/1.	9, 3/58861.	8, 194.0,	194.0,	0.0);	( 449375.8,
3/58861.8,	193.8,	193.8,	0.0);	<b>a a )</b>	(
( 449379.	6, 3758861.	8, 193.7,	193.7,	0.0);	(449383.5,
3758861.8,	193.4,	193.4,	0.0);		
( 449387.	4, 3758861.	8, 193.2,	193.2,	0.0);	( 449391.2,
3758861.8,	192.9.	102 0	a a).		
( 449395.	,	172.7,	0.0);		
3758861.8.	1, 3758861.	192.9, 8, 192.7,	192.7,	0.0);	( 449399.0,
	1, 3758861. 192.4,	192.9, 8, 192.7, 192.4,	192.7, 0.0);	0.0);	( 449399.0,
( 449402.	1, 3758861. 192.4, 8, 3758861.	192.9, 8, 192.7, 192.4, 8, 192.1,	192.7, 0.0); 192.1,	0.0); 0.0);	( 449399.0, ( 449406.7,
( 449402. 3758861.8,	1, 3758861. 192.4, 8, 3758861. 191.9,	192.9, 192.7, 192.4, 8, 192.1, 191.9,	192.7, 0.0); 192.1, 0.0);	0.0); 0.0);	( 449399.0, ( 449406.7,
( 449402. 3758861.8, ( 449410.	1, 3758861. 192.4, 8, 3758861. 191.9, 6, 3758861.	192.9,         8,       192.7,         192.4,         8,       192.1,         191.9,         8,       191.6,	192.7, 0.0); 192.1, 0.0); 191.6,	0.0); 0.0); 0.0);	( 449399.0, ( 449406.7, ( 449414.5,
(449402. 3758861.8, (449410. 3758861.8,	1, 3758861.1 192.4, 8, 3758861.1 191.9, 6, 3758861.1 191.4,	8, 192.7, 192.4, 8, 192.1, 191.9, 8, 191.6, 191.4,	192.7, 0.0); 192.1, 0.0); 191.6, 0.0);	0.0); 0.0); 0.0);	( 449399.0, ( 449406.7, ( 449414.5,
(449402. 3758861.8, (449410. 3758861.8, (449418.	1, 3758861. 192.4, 8, 3758861. 191.9, 6, 3758861. 191.4, 3, 3758861.	192.9,         8,       192.7,         192.4,         8,       192.1,         191.9,         8,       191.6,         191.4,         8,       191.2,	192.7, 0.0); 192.1, 0.0); 191.6, 0.0); 191.2,	0.0); 0.0); 0.0); 0.0);	<pre>( 449399.0, ( 449406.7, ( 449414.5, ( 449422.2,</pre>
( 449402. 3758861.8, ( 449410. 3758861.8, ( 449418. 3758861.8,	1, 3758861. 192.4, 8, 3758861. 191.9, 6, 3758861. 191.4, 3, 3758861. 190.9,	192.9,         8,       192.7,         192.4,         8,       192.1,         191.9,         8,       191.6,         191.4,         8,       191.2,         190.9,	192.7, 0.0); 192.1, 0.0); 191.6, 0.0); 191.2, 0.0);	0.0); 0.0); 0.0); 0.0);	<pre>( 449399.0, ( 449406.7, ( 449414.5, ( 449422.2,</pre>

3758861.8, 190.4, 190.4, 0.0);190.2, ( 449433.8, 3758861.8, 0.0); 190.2, (449437.7)0.0); 3758861.8, 190.0, 190.0, 189.8, 189.8, (449441.5, 3758861.8, 0.0);(449445.4)189.7, 3758861.8, 189.7, 0.0); 194.7, (449368.0, 3758875.8, 0.0); (449371.9,194.7, 3758875.8, 194.6, 194.6, 0.0);194.4, (449375.8, 3758875.8, (449379.6, 194.4, 0.0); 194.3, 3758875.8, 194.3, 0.0); 194.1, (449383.5, 3758875.8, 194.1, 0.0); (449387.4)193.8, 0.0); 3758875.8, 193.8, 193.5, 193.5, (449391.2, 3758875.8, 0.0); (449395.1,193.3, 0.0); 3758875.8, 193.3, 193.0, (449399.0, 3758875.8, 193.0, 0.0); (449402.8, 3758875.8, 192.8, 192.8, 0.0); 192.5, ( 449410.6, 0.0); (449406.7, 3758875.8, 192.5, 0.0); 3758875.8, 192.2, 192.2, ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 \*\*\* HRA\PM25\PM25.ISC 11/11/21 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* \*\*\* 12:00:31 PAGE 7 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\* \*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\* (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG) (METERS) (449414.5, 3758875.8, 192.0, 0.0);192.0, (449418.3,0.0); 3758875.8, 191.7, 191.7, (449422.2, 3758875.8, 191.5, (449426.1,191.5, 0.0); 191.2, 3758875.8, 191.2, 0.0);191.0, (449429.9, 3758875.8, 191.0, 0.0); (449433.8)190.7, 0.0); 3758875.8, 190.7, 190.4, (449437.7, 3758875.8, 190.4, 0.0); (449441.5,190.2, 3758875.8, 190.2, 0.0);(449445.4, 3758875.8, 190.1, 190.1, 0.0);(449368.0,3758889.9, 195.2, 195.2, 0.0); 195.0, (449371.9, 3758889.9, 0.0);(449375.8,195.0, 194.9, 0.0); 3758889.9, 194.9, 194.8, (449379.6, 3758889.9, 194.8, 0.0); (449383.5, 194.5, 0.0); 3758889.9, 194.5, 194.3, (449387.4, 3758889.9, 194.3, 0.0); (449391.2,194.0, 0.0); 3758889.9, 194.0, (449395.1, 3758889.9, 193.7, 193.7, 0.0); (449399.0,193.5, 0.0);3758889.9, 193.5, 193.2, 193.2, (449402.8, 3758889.9, 0.0); (449406.7)193.0, 0.0); 3758889.9, 193.0, (449410.6, 3758889.9, 192.7, 192.7, 0.0); (449414.5,

3758889.9,	192.5,	192.5,	0.0);		
( 449418.	3, 3758889.9	), 192.2,	192.2,	0.0);	( 449422.2,
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3758889.9,	191.4,	191.4,	0.0);		<b>,</b>
( 449433.	8, 3758889.9	), 191.2,	191.2.	0.0);	( 449437.7,
3758889.9.	190.9.	190.9.	0.0);		· · · · ·
( 449441.	5. 3758889.9	9. 190.7.	190.7.	0.0):	( 449445.4.
3758889.9.	190.6.	190.6.	0.0):	0.075	(
( 449368	0 3758903	195 8	195 8	9 9).	( 449371 9
3758903 9	195 7	195 7	0 0)·	0.0);	( ++>>/ ±.>,
/ 1/0375	2 3758003 C	105.7, 105.6	105 6	0 0).	( 110370 6
2750002 0	105 5	105 5	0.0).	0.0),	( 449579.0,
2/2020.2, 2/20202, /		10E 2	105 2	0 0).	( 440207 4
275002 0	105 0	10F 0	195.2,	0.0),	( 449507.4,
2/20902.9, / 440201	195.0,	195.0,	104 7	0.0).	( 440205 1
( 449391.	2, 3/58903.5	, 194./,	194.7,	0.0);	( 449395.1,
3/58903.9,	194.5,	194.5,	0.0);	0.0	(
( 449399.	0, 3/58903.9	9, 194.2,	194.2,	0.0);	(449402.8,
3758903.9,	194.0,	194.0,	0.0);		
( 449406.	7, 3758903.9	9, 193.7,	193.7,	0.0);	( 449410.6,
3758903.9,	193.4,	193.4,	0.0);		
( 449414.	5, 3758903.9	9, 193.1,	193.1,	0.0);	( 449418.3,
3758903.9,	192.8,	192.8,	0.0);		
( 449422.	2, 3758903.9	9, 192.6,	192.6,	0.0);	( 449426.1,
3758903.9,	192.3,	192.3,	0.0);		
( 449429.	9, 3758903.9	), 192.0,	192.0,	0.0);	( 449433.8,
3758903.9,	191.7,	195.0,	0.0);		
( 449437.	7, 3758903.9	), 191.4,	195.0,	0.0);	( 449441.5,
3758903.9,	191.2,	191.2,	0.0);	·	
( 449445.	4, 3758903.9	9, 191.1,	191.1,	0.0);	( 449368.0,
3758918.0,	196.6,	196.6,	0.0);		,
( 449371.	9, 3758918.0	), 196.5,	196.5.	0.0);	( 449375.8,
3758918.0.	196.5.	196.5.	0.0):		<b>(</b>
( 449379.	6. 3758918.6	196.4.	196.4.	0.0):	( 449383.5.
3758918 0	196 2	196 2	9 9)·	0.0/)	( 115505.5)
( 449387	4 3758918 0	195 9	195 9	9 9).	( 449391 2
3758918 0	195 7	195 7	0 0)·	0.0);	( ++>>>±.2,
( //0305	1 3758918 0	195.7, 195.7	195 /	9 9).	( 119399 0
2750010 0	105 1	105 1	0 0).	0.0),	( 449599.0,
/ //0/02	19 <b>3.1</b> , 0 3750010 (	193.1,	104 0	0 0).	( 110106 7
2750010 0	104 6	104 6	194.9,	0.0),	( 449400.7,
/ ///////	194.0,	194.0,	104 2	0.0).	
( 449410.	6, 3/58918.6	194.3,	194.3,	0.0);	( 449414.5,
3/58918.0,	194.0,	195.0,	0.0);	0.0).	( 440422 2
( 449418.	3, 3/58918.6	, 193.6,	195.0,	0.0);	( 449422.2,
3/58918.0,	193.3,	195.0,	0.0);		
( 449426.	1, 3758918.0	), 192.9,	195.0,	0.0);	(449429.9,
3758918.0,	192.6,	195.0,	0.0);		
( 449433.	8, 3758918.0	), 192.2,	195.0,	0.0);	( 449437.7,
3758918.0,	191.9,	195.0,	0.0);		
( 449441.	5, 3758918.0	), 191.7,	195.0,	0.0);	( 449445.4,

3758918.0, 191.5, 191.5, 0.0);	
(449368.0, 3758932.0, 197.2, 197.	2, 0.0); (449371.9,
3758932.0, 197.2, 197.2, 0.0);	
(449375.8, 3758932.0, 197.2, 197.	2, 0.0); (449379.6,
3758932.0, 197.2, 197.2, 0.0);	
(449383.5, 3758932.0, 196.9, 196.	9, 0.0); (449387.4,
3/58932.0, 196./, 196./, 0.0);	
(449391.2, 3758932.0, 196.4, 196.	4, 0.0); (449395.1,
$( \Lambda 49399 \ 0 \ 3758932 \ 0 \ 195.2, $	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
3758932.0. 195.6. 195.6. 0.0):	5, 0.07, (445402.0,
(449406.7, 3758932.0, 195.4, 195.	4, 0.0); (449410.6,
3758932.0, 195.1, 195.1, 0.0);	
(449414.5, 3758932.0, 194.7, 194.	7, 0.0); (449418.3,
3758932.0, 194.3, 194.3, 0.0);	
(449422.2, 3758932.0, 193.9, 193.	9, 0.0); (449426.1,
3758932.0, 193.5, 193.5, 0.0);	
(449429.9, 3758932.0, 193.1, 193.	1, 0.0); (449433.8,
3758932.0, 192.8, 192.8, 0.0);	
★ *** AERMOD - VERSION 19191 *** *** C:\LAK	S\AERMOD VIEW\14172
HRA\PM25\PM25.ISC ***	11/11/21
*** AERMEI - VERSION 16216 *** ***	
12:00:31	
PAUE O	
*** MODELOPTS: RegDFAULT CONC ELEV URBAN	ADJ_U*
*** MODELOPTS: RegDFAULT CONC ELEV URBA	ADJ_U* * DISCRETE CARTESIAN RECEPTORS ***
*** MODELOPTS: RegDFAULT CONC ELEV URBAN ** (X-0	ADJ_U* * DISCRETE CARTESIAN RECEPTORS *** OORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
*** MODELOPTS: RegDFAULT CONC ELEV URBAN ** (X-0	ADJ_U* * DISCRETE CARTESIAN RECEPTORS *** OORD, Y-COORD, ZELEV, ZHILL, ZFLAG) (METERS)
*** MODELOPTS: RegDFAULT CONC ELEV URBAN ** (X-0	ADJ_U* * DISCRETE CARTESIAN RECEPTORS *** OORD, Y-COORD, ZELEV, ZHILL, ZFLAG) (METERS)
<pre>*** MODELOPTS: RegDFAULT CONC ELEV URBAN</pre>	ADJ_U* * DISCRETE CARTESIAN RECEPTORS *** OORD, Y-COORD, ZELEV, ZHILL, ZFLAG) (METERS) 4, 0.0); (449441.5,
<pre>*** MODELOPTS: RegDFAULT CONC ELEV URBAN (X-0</pre>	ADJ_U* * DISCRETE CARTESIAN RECEPTORS *** OORD, Y-COORD, ZELEV, ZHILL, ZFLAG) (METERS) 4, 0.0); (449441.5,
<pre>*** MODELOPTS: RegDFAULT CONC ELEV URBAN</pre>	ADJ_U* * DISCRETE CARTESIAN RECEPTORS *** OORD, Y-COORD, ZELEV, ZHILL, ZFLAG) (METERS) 4, 0.0); (449441.5, 0, 0.0); (449368.0,
<pre>*** MODELOPTS: RegDFAULT CONC ELEV URBAN</pre>	ADJ_U* * DISCRETE CARTESIAN RECEPTORS *** OORD, Y-COORD, ZELEV, ZHILL, ZFLAG) (METERS) 4, 0.0); (449441.5, 0, 0.0); (449368.0,
<pre>*** MODELOPTS: RegDFAULT CONC ELEV URBAN</pre>	ADJ_U* * DISCRETE CARTESIAN RECEPTORS *** OORD, Y-COORD, ZELEV, ZHILL, ZFLAG) (METERS) 4, 0.0); (449441.5, 0, 0.0); (449368.0, 7, 0.0); (449375.8,
<pre>*** MODELOPTS: RegDFAULT CONC ELEV URBAN</pre>	ADJ_U* * DISCRETE CARTESIAN RECEPTORS *** OORD, Y-COORD, ZELEV, ZHILL, ZFLAG) (METERS) 4, 0.0); (449441.5, 0, 0.0); (449368.0, 7, 0.0); (449375.8,
<pre>*** MODELOPTS: RegDFAULT CONC ELEV URBAN</pre>	ADJ_U* * DISCRETE CARTESIAN RECEPTORS *** OORD, Y-COORD, ZELEV, ZHILL, ZFLAG) (METERS) 4, 0.0); (449441.5, 0, 0.0); (449368.0, 7, 0.0); (449375.8, 7, 0.0); (449383.5,
<pre>*** MODELOPTS: RegDFAULT CONC ELEV URBAN</pre>	ADJ_U* * DISCRETE CARTESIAN RECEPTORS *** OORD, Y-COORD, ZELEV, ZHILL, ZFLAG) (METERS) 4, 0.0); (449441.5, 0, 0.0); (449368.0, 7, 0.0); (449375.8, 7, 0.0); (449383.5, 1, 0.0); (440201.2)
<pre>*** MODELOPTS: RegDFAULT CONC ELEV URBAN</pre>	ADJ_U* * DISCRETE CARTESIAN RECEPTORS *** OORD, Y-COORD, ZELEV, ZHILL, ZFLAG) (METERS) 4, 0.0); (449441.5, 0, 0.0); (449368.0, 7, 0.0); (449375.8, 7, 0.0); (449383.5, 1, 0.0); (449391.2,
<pre>*** MODELOPTS: RegDFAULT CONC ELEV URBAN</pre>	ADJ_U* * DISCRETE CARTESIAN RECEPTORS *** OORD, Y-COORD, ZELEV, ZHILL, ZFLAG) (METERS) 4, 0.0); (449441.5, 0, 0.0); (449368.0, 7, 0.0); (449375.8, 7, 0.0); (449375.8, 1, 0.0); (449383.5, 1, 0.0); (449391.2, 6 0.0); (449390.0
<pre>*** MODELOPTS: RegDFAULT CONC ELEV URBAN</pre>	ADJ_U* * DISCRETE CARTESIAN RECEPTORS *** OORD, Y-COORD, ZELEV, ZHILL, ZFLAG) (METERS) 4, 0.0); (449441.5, 0, 0.0); (449368.0, 7, 0.0); (449375.8, 7, 0.0); (449375.8, 1, 0.0); (449391.2, 6, 0.0); (449399.0,
<pre>*** MODELOPTS: RegDFAULT CONC ELEV URBAN</pre>	ADJ_U* * DISCRETE CARTESIAN RECEPTORS *** OORD, Y-COORD, ZELEV, ZHILL, ZFLAG) (METERS) 4, 0.0); (449441.5, 0, 0.0); (449368.0, 7, 0.0); (449375.8, 7, 0.0); (449375.8, 1, 0.0); (449383.5, 1, 0.0); (449391.2, 6, 0.0); (449399.0, 1 0.0); (449406.7
<pre>*** MODELOPTS: RegDFAULT CONC ELEV URBAN</pre>	ADJ_U* * DISCRETE CARTESIAN RECEPTORS *** OORD, Y-COORD, ZELEV, ZHILL, ZFLAG) (METERS) 4, 0.0); (449441.5, 0, 0.0); (449368.0, 7, 0.0); (449375.8, 7, 0.0); (449375.8, 1, 0.0); (449383.5, 1, 0.0); (449391.2, 6, 0.0); (449399.0, 1, 0.0); (449406.7,
<pre>*** MODELOPTS: RegDFAULT CONC ELEV URBAN</pre>	ADJ_U* * DISCRETE CARTESIAN RECEPTORS *** OORD, Y-COORD, ZELEV, ZHILL, ZFLAG) (METERS) 4, 0.0); (449441.5, 0, 0.0); (449368.0, 7, 0.0); (449375.8, 7, 0.0); (449375.8, 1, 0.0); (449383.5, 1, 0.0); (449391.2, 6, 0.0); (449399.0, 1, 0.0); (449406.7, 5, 0.0); (449414.5.
<pre>*** MODELOPTS: RegDFAULT CONC ELEV URBAN</pre>	ADJ_U* * DISCRETE CARTESIAN RECEPTORS *** OORD, Y-COORD, ZELEV, ZHILL, ZFLAG) (METERS) 4, 0.0); (449441.5, 0, 0.0); (449368.0, 7, 0.0); (449375.8, 7, 0.0); (449375.8, 1, 0.0); (449391.2, 6, 0.0); (449399.0, 1, 0.0); (449406.7, 5, 0.0); (449414.5,
<pre>*** MODELOPTS: RegDFAULT CONC ELEV URBAN</pre>	ADJ_U* * DISCRETE CARTESIAN RECEPTORS *** OORD, Y-COORD, ZELEV, ZHILL, ZFLAG) (METERS) 4, 0.0); (449441.5, 0, 0.0); (449368.0, 7, 0.0); (449375.8, 7, 0.0); (449375.8, 7, 0.0); (449383.5, 1, 0.0); (449391.2, 6, 0.0); (449399.0, 1, 0.0); (449406.7, 5, 0.0); (449414.5, 8, 0.0); (449422.2,
<pre>*** MODELOPTS: RegDFAULT CONC ELEV URBAN</pre>	ADJ_U* * DISCRETE CARTESIAN RECEPTORS *** OORD, Y-COORD, ZELEV, ZHILL, ZFLAG) (METERS) 4, 0.0); (449441.5, 0, 0.0); (449368.0, 7, 0.0); (449375.8, 7, 0.0); (449375.8, 7, 0.0); (449383.5, 1, 0.0); (449391.2, 6, 0.0); (449399.0, 1, 0.0); (449406.7, 5, 0.0); (449414.5, 8, 0.0); (449422.2,

3758946.0,	193.6,	196.0,	0.0);		
( 449433	.8, 3758946.0	), 193.2,	196.0,	0.0);	(449437.7,
3758946.0,	192.8,	196.0,	0.0);		•
( 449441	.5. 3758946.0	), 192.5,	196.0.	0.0);	( 449445.4,
3758946.0.	192.3.	192.3.	0.0):		
( 449368.	.0. 3758960.1	198.0.	198.0.	0.0):	( 449371.9.
3758960 1	198 0	198 0	0 0)·	0.075	( 1100/210)
( 1/0375	8 3758960 1	102.0	108 0	0 0).	( 110370 6
2759060 1	109 0	100 0	190.0,	0.0),	( 449579.0,
/ 140202	130.0	190.0,	107.9	0 0).	( 440207 4
2750060 1	107 5	107 5	197.8,	0.0);	( 449587.4,
3/58960.1,	197.5,	197.5,	0.0);	0.0	( 440205 4
( 449391	.2, 3/58960.1	L, 197.3,	197.3,	0.0);	(449395.1,
3/58960.1,	197.0,	197.0,	0.0);		
( 449399	.0, 3758960.1	l, 196.8,	196.8,	0.0);	(449402.8,
3758960.1,	196.5,	196.5,	0.0);		
( 449406	.7, 3758960.1	L, 196.3,	196.3,	0.0);	( 449410.6,
3758960.1,	196.0,	196.0,	0.0);		
( 449414	.5, 3758960.1	L, 195.6,	195.6,	0.0);	( 449418.3,
3758960.1,	195.2,	195.2,	0.0);		
( 449422	.2, 3758960.1	L, 194.9,	194.9,	0.0);	( 449426.1,
3758960.1.	194.5.	194.5.	0.0);	, -	<b>、</b>
( 449429	.9. 3758960.1	L. 194.1.	194.1.	0.0);	( 449433.8.
3758960.1.	193.7.	193.7.	0.0):		(
( 449437	7. 3758960.1	193.3.	193.3.	0.0):	( 449441 5
3758960 1	193 0	193.0	0 0)·	0.0/,	( 113112.3)
( //0//5	A 3758960 1	100.0,	102 7	0 0).	( 110368 0
2750074 1	100 0	100 0	192.7,	0.0),	( 449508.0,
5/569/4.L, ( 440271	190.0,	198.0,	100.0	0.0).	( 440275 0
( 4493/1.	.9, 3/589/4.1	198.0,	198.0,	0.0);	( 4493/5.8,
3/589/4.1,	198.0,	198.0,	0.0);	a a)	(
( 4493/9	.6, 3/589/4.1	L, 198.0,	198.0,	0.0);	( 449383.5,
3758974.1,	197.8,	197.8,	0.0);		
( 449387.	.4, 3758974.1	l, 197.6,	197.6,	0.0);	( 449391.2,
3758974.1,	197.5,	197.5,	0.0);		
( 449395.	.1, 3758974.1	L, 197.3,	197.3,	0.0);	( 449399.0,
3758974.1,	197.1,	197.1,	0.0);		
( 449402	.8, 3758974.1	L, 196.9,	196.9,	0.0);	(449406.7,
3758974.1,	196.7,	196.7,	0.0);		
( 449410	.6, 3758974.1	L, 196.5,	196.5,	0.0);	( 449414.5,
3758974.1.	196.1.	196.1.	0.0);		,
( 449418	.3. 3758974.1	L. 195.7.	195.7.	0.0);	( 449422.2.
3758974.1.	195.3.	195.3.	0.0):		<b>(</b> ) ) ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ]
( 449426	1 3758974 1	194 9	197 0	9 9).	( 119129 9
375897/ 1	19/ 5	197 0	0 0).	0.0),	( ++5+25.5;
/ //0/22	2 375807/ 1	107.0,	107 0	0 0).	( 110137 7
2750074 1	102 0	107 0	197.0,	0.0),	( 449457.7,
5/505/4.1, / 440441	133.0,	197.0,	107.0	0.0).	
( 449441.	102 1	107 0	,0,,21	(0.0)	( 449445.4,
3/589/4.1,	193.1,	19/.0,	0.0);	0.0):	( 440074 0
( 449368.	.0, 3/58988.2	2, 198.1,	198.1,	0.0);	( 4493/1.9,
3758988.2,	198.1,	198.1,	0.0);		
( 449375.	.8, 3758988.2	2, 198.1,	198.1,	0.0);	(449379.6,

0.0):	
197.9, 0.0);	( 449387.4,
0.0);	
197.6, 0.0);	( 449395.1,
0.0);	, j
197.4, 0.0);	( 449402.8,
0.0);	
197.1, 0.0);	( 449410.6,
0.0);	
196.5, 0.0);	( 449418.3,
0.0);	
195.8, 0.0);	( 449426.1,
0.0);	
195.0, 0.0);	( 449433.8,
0.0);	
194.2, 0.0);	( 449441.5,
0.0);	
193.5, 0.0);	( 449368.0,
0.0);	
198.5, 0.0);	( 449375.8,
0.0);	
* C:\LAKES\AERMOD VIEW\14	L72
*** 11/11/21	
00:31	
	0.0); 197.9, 0.0); 0.0); 197.6, 0.0); 0.0); 197.4, 0.0); 0.0); 197.1, 0.0); 0.0); 196.5, 0.0); 0.0); 195.8, 0.0); 0.0); 195.0, 0.0); 0.0); 194.2, 0.0); 0.0); 193.5, 0.0); 0.0); 198.5, 0.0); 0.0); * C:\LAKES\AERMOD VIEW\141 *** 11/11/21

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

> \*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\* (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG) (METERS)

( 449379.6, 3759002.	.2, 198.5,	198.5,	0.0);	( 449383.5,
3759002.2, 198.3,	198.3,	0.0);		
( 449387.4, 3759002.	.2, 198.1,	198.1,	0.0);	( 449391.2,
3759002.2, 197.9,	197.9,	0.0);		
(449395.1, 3759002.	.2, 197.7,	197.7,	0.0);	( 449399.0,
3759002.2, 197.5,	197.5,	0.0);		
( 449402.8, 3759002.	.2, 197.3,	197.3,	0.0);	( 449406.7,
3759002.2, 197.1,	197.1,	0.0);		
( 449410.6, 3759002.	.2, 196.9,	196.9,	0.0);	( 449414.5,
3759002.2, 196.6,	196.6,	0.0);		
( 449418.3, 3759002.	.2, 196.3,	196.3,	0.0);	( 449422.2,
3759002.2, 196.0,	196.0,	0.0);		
( 449426.1, 3759002.	.2, 195.6,	195.6,	0.0);	( 449429.9,
3759002.2, 195.3,	195.3,	0.0);		
(449433.8, 3759002.	.2, 195.0,	195.0,	0.0);	( 449437.7,
3759002.2, 194.7,	194.7,	0.0);		
( 449441.5, 3759002.	.2, 194.3,	194.3,	0.0);	( 449445.4,

3759002.2,	193.9,	193.9,	0.0);		
( 449368	.0, 3759016.2	2, 199.0,	199.0,	0.0);	( 449371.9,
3759016.2,	199.0,	199.0,	0.0);	, .	•
( 449375	.8, 3759016.2	2, 199.0,	199.0,	0.0);	( 449379.6,
3759016.2.	199.0.	199.0.	0.0):		
( 449383.	.5. 3759016.2	2. 198.7.	198.7.	0.0):	( 449387.4.
3759016.2.	198.5.	198.5.	0.0):	,	(
( //9391	2 3759016 3	108.2	198 2	9 9).	( 119395 1
2750016 2	100 0	100 0	0 0).	0.0),	( ++)))),1,
/ 110200	190.0,	190.0, 107.7	107 7	0 0).	( 110102 0
2750016 2	107 4	107 4	197.7,	0.0),	( 449402.0,
5/59010.2,	197.4,	197.4,	0.0);	0.0)	( 440410 C
( 449406	./, 3/59016.2	2, 197.2,	197.2,	0.0);	( 449410.6,
3/59016.2,	196.9,	196.9,	0.0);		
( 449414	.5, 3759016.2	2, 196.7,	196.7,	0.0);	( 449418.3,
3759016.2,	196.4,	196.4,	0.0);		
( 449422.	.2, 3759016.2	2, 196.2,	196.2,	0.0);	( 449426.1,
3759016.2,	195.9,	195.9,	0.0);		
( 449429	.9, 3759016.2	2, 195.6,	195.6,	0.0);	( 449433.8,
3759016.2,	195.4,	195.4,	0.0);		
( 449437	.7, 3759016.2	2, 195.1,	195.1,	0.0);	( 449441.5,
3759016.2,	194.8,	195.0,	0.0);		
( 449445	.4, 3759016.2	2, 194.4,	195.0,	0.0);	( 449368.0,
3759030.3,	198.5,	198.5,	0.0);		,
( 449371	.9. 3759030.3	3. 198.5.	198.5.	0.0);	(449375.8.
3759030.3.	198.5.	198.5.	0.0):		<b>(</b>
( 449379	6 3759030	198 5	198 5	9 9).	( 449383 5
3759030 3	198 3	198 3	0 0).	0.0/;	( ++5505.5,
( 1/19387	1 3759030	198.5,	198 0	9 9).	( 119391 2
2750020 2	107 0	107 0	1,0.0, 0 0).	0.0),	( 44)))1.2,
2/29020.2, / 44020E	1 2750020	197.0, 107 F	107 F	0 0).	( 110200 0
	107 2	107 2	197.5,	0.0);	( 449599.0,
3/59030.3,	197.2,	197.2,	0.0);	0.0).	( 440406 7
( 449402	.8, 3/59030.3	3, 197.0,	197.0,	0.0);	( 449406.7,
3759030.3,	196.7,	196.7,	0.0);		
( 449410	.6, 3759030.3	3, 196.5,	196.5,	0.0);	( 449414.5,
3759030.3,	196.3,	196.3,	0.0);		
( 449418.	.3, 3759030.3	3, 196.1,	196.1,	0.0);	( 449422.2,
3759030.3,	195.9,	195.9,	0.0);		
( 449426	.1, 3759030.3	3, 195.7,	195.7,	0.0);	( 449429.9,
3759030.3,	195.5,	195.5,	0.0);		
( 449433	.8, 3759030.3	3, 195.3,	195.3,	0.0);	(449437.7,
3759030.3,	195.1,	195.1,	0.0);		· ·
( 449441	5. 3759030.3	3. 194.8.	194.8.	0.0);	( 449445.4,
3759030.3.	194.4.	194.4.	0.0):		(
( 449368	0. 3759044	198.1.	198.1.	0.0):	( 449371 9
3759044 3	198 1	198 1	0 0).	0.075	( 11557 215)
( <i>N</i> /0275	2 37500 <i>11</i>	100.1	102 1	0 0).	( 119370 6
3750011 2	100 1	ر ± ۵۰۰ تر 100 1	, a a).	0.0/,	( ++))))),
ر ۲+۲של ( ۱۷ רסר ۱۸ /	170.1, E 27E0044	107 0 107 0	107 0	0 0).	( 110007 A
2750044 2	ייייייייייייייייייייייייייייייייייייי	יס, באוליס, 107 ב	, 0, 127.0,	0.0),	( 44938/.4,
J/J9044.J,	19/.0,	19/.0,	107.2	0.0).	( 440205 4
( 449391.	.2, 3/59044.3	5, 197.3,	19/.3,	0.0);	( 449395.1,

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

\*\*\* UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED

CATEGORIES \*\*\*

(METERS/SEC)

1.54, 3.09, 5.14, 8.23,

\*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL

10.80, ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 HRA\PM25\PM25.ISC \*\*\* 11/11/21 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* \*\*\* 12:00:31

PAGE 11

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

DATA \*\*\*

Surface file: ..\KRAL\_V9\_ADJU\KRAL\_V9.SFC Met Version: 16216 Profile file: ..\KRAL\_V9\_ADJU\KRAL\_V9.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 3171 Name: UNKNOWN

Year: 2012

Year: 2012

Name: UNKNOWN

Upper air station no.: 3190

First 24 hours of scalar data

YR MO DY JDY HR HØ U\* W\* DT/DZ ZICNV ZIMCH M-O LEN ZØ BOWEN HT REF TA ALBEDO REF WS HT WD . . . . . . . . . . . . . . . . . . . 12 01 01 1 01 -25.6 0.266 -9.000 -9.000 -999. 330. 77.9 0.15 2.40 1.00 2.93 55. 10.1 288.1 2.0 1 02 -26.8 0.277 -9.000 -9.000 -999. 351. 84.7 0.15 12 01 01 2.40 1.00 3.05 55. 10.1 287.0 2.0 1 03 -21.5 0.221 -9.000 -9.000 -999. 250. 53.5 0.15 12 01 01 2.40 1.00 2.45 74. 10.1 284.2 2.0 56.8 0.15 12 01 01 1 04 -22.0 0.227 -9.000 -9.000 -999. 260. 2.40 1.00 2.52 77. 10.1 285.9 2.0 1 05 -20.0 0.206 -9.000 -9.000 -999. 225. 46.8 0.15 12 01 01 2.40 10.1 285.4 1.00 2.30 80. 2.0 1 06 -14.4 0.171 -9.000 -9.000 -999. 170. 32.1 0.15 12 01 01 2.40 79. 10.1 287.0 1.00 1.93 2.0 12 01 01 1 07 -14.9 0.174 -9.000 -9.000 -999. 174. 33.2 0.15 2.40 77. 10.1 284.2 1.00 1.96 2.0 1 08 -11.9 0.169 -9.000 -9.000 -999. 167. 12 01 01 36.1 0.15 2.40 1.89 10.1 288.1 0.53 77. 2.0 40.4 0.234 0.359 0.006 40. 272. 12 01 01 1 09 -28.1 0.15 2.40

0.31 2.10 81. 10.1 289.2 2.0 12 01 01 1 10 112.6 0.246 0.742 0.005 129. 293. -11.8 0.15 2.40 0.24 1.99 101. 10.1 296.4 2.0 12 01 01 1 11 161.0 0.402 1.188 0.005 369. 611. -35.6 0.15 2.40 3.68 78. 10.1 298.8 0.21 2.0 12 01 01 1 12 184.7 0.337 1.516 0.005 668. 473. -18.4 0.15 2.40 0.20 2.89 68. 10.1 300.4 2.0 12 01 01 1 13 183.9 0.310 1.809 0.005 1139. 414. -14.2 0.15 2.40 0.20 2.57 64. 10.1 302.5 2.0 12 01 01 1 14 156.6 0.374 1.852 0.005 1434. 549. -29.5 0.15 2.40 10.1 303.1 0.22 3.37 63. 2.0 12 01 01 1 15 104.3 0.382 1.658 0.005 1546. 567. -47.2 0.15 2.40 62. 10.1 302.5 0.25 3.59 2.0 12 01 01 31.8 0.374 1.123 0.005 1573. 550. -145.8 0.15 1 16 2.40 3.76 69. 10.1 300.9 0.34 2.0 12 01 01 1 17 -23.3 0.276 -9.000 -9.000 -999. 354. 84.0 0.15 2.40 3.03 59. 10.1 297.5 0.62 2.0 12 01 01 1 18 -21.5 0.229 -9.000 -9.000 -999. 264. 57.8 0.15 2.40 2.54 54. 10.1 295.4 1.00 2.0 12 01 01 1 19 -19.3 0.204 -9.000 -9.000 -999. 221. 45.6 0.15 2.40 2.27 79. 10.1 292.0 1.00 2.0 12 01 01 1 20 -20.7 0.218 -9.000 -9.000 -999. 244. 52.2 0.15 2.40 1.00 2.42 79. 10.1 292.5 2.0 12 01 01 1 21 -19.7 0.206 -9.000 -9.000 -999. 225. 46.9 0.15 2.40 1.00 2.30 95. 10.1 290.9 2.0 12 01 01 1 22 -17.6 0.190 -9.000 -9.000 -999. 199. 39.8 0.15 2.40 2.13 78. 10.1 290.4 1.00 2.0 1 23 -20.3 0.211 -9.000 -9.000 -999. 233. 12 01 01 49.0 0.15 2.40 10.1 289.2 1.00 2.35 52. 2.0 1 24 -16.4 0.183 -9.000 -9.000 -999. 189. 12 01 01 37.0 0.15 2.40 2.06 75. 10.1 288.8 2.0 1.00 First hour of profile data WSPD AMB\_TMP sigmaA sigmaW sigmaV 2.93 288.2 99.0 -99.00 -99.00 YR MO DY HR HEIGHT F WDIR 12 01 01 01 10.1 1 55. F indicates top of profile (=1) or below (=0) ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 HRA\PM25\PM25.ISC \*\*\* 11/11/21 \*\*\* \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*

12:00:31

PAGE 12 RegDFAULT CONC ELEV URBAN ADJ U\* \*\*\* MODELOPTs:

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\* INCLUDING SOURCE(S): L0000287 , L0000288 , L0000289 , L0000290 , L0000291 ر

		L0000292	, L0000293	, L0000294	, L0000295	, L0000296
,	L0000297	, L0000298	, L0000299	ر		
		L0000300	, L0000301	, L0000302	, L0000303	, L0000304
,	L0000305	, L0000306	, L0000307	ر		
		L0000308	, L0000309	, L0000310	, L0000311	, L0000312

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\* CONC OF PM\_2.5 IN MICROGRAMS/M\*\*3

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ر

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X-COORD (M) Y-COORD (M)	Y-COORD (M) CONC (YYMMDDHI	CONC H) 	(YYMMDDHH)	X-COORD (M)
449368.02	3758763.53	2.22782b	 (16120624)	449371.89
3758763.53	2.13311b (16120624	4)		
449375.76	3758763.53	2.04457b	(16120624)	449379.63
3758763.53	1.96234b (16120624	4)		
449383.50	3758763.53	1.88907b	(16120624)	449387.37
3758763.53	1.82106b (16120624	4)	(	
449391.24	3758763.53	1.75730b	(16120624)	449395.11
3758763.53	1.69762b (16120624	4)	(	
449398.98	3758763.53	1.64162b	(16120624)	449402.85
3758763.53	1.58898b (16120624	4)	(	
449406.72	3758763.53	1.53957b	(16120624)	449410.59
3758763.53	1.49351b (16120624	4)	/ <b>.</b>	
449414.46	3758763.53	1.45157b	(16120624)	449418.33
3758763.53	1.41181b (16120624	4)	(	
449422.20	3758763.53	1.37405b	(16120624)	449426.07
3758763.53	1.33814b (16120624	4)		
449429.94	3758763.53	1.30395b	(16120624)	449433.81
3758763.53	1.27135b (16120624	4)		
449437.68	3758763.53	1.24024b	(16120624)	449441.55
3758763.53	1.21118b (16120624	4)		
449445.42	3758763.53	1.18362b	(16120624)	449368.02
3758777.57	2.22943b (16120624	4)		
449371.89	3758777.57	2.13134b	(16120624)	449375.76
3758777.57	2.03961b (16120624	4)		
449379.63	3758777.57	1.95475b	(16120624)	449383.50
3758777.57	1.88179b (16120624	4)		
449387.37	3758777.57	1.81384b	(16120624)	449391.24
3758777.57	1.75066b (16120624	4)		
449395.11	3758777.57	1.69129b	(16120624)	449398.98
3758777.57	1.63561b (16120624	4)		
449402.85	3758777.57	1.58327b	(16120624)	449406.72
3758777.57	1.53397b (16120624	4)		
449410.59	3758777.57	1.48823b	(16120624)	449414.46

3758777.57	1.44684b (16120624)			
449418.33	3758777.57 1.	40741b	(16120624)	449422.20
3758777.57	1.36995b (16120624)			
449426.07	3758777.57 1.	33433b	(16120624)	449429.94
3758777.57	1.30040b (16120624)			
449433.81	3758777.57 1.	26804b	(16120624)	449437.68
3758777.57	1.23715b (16120624)			
449441.55	3758777.57 1.	20860b	(16120624)	449445.42
3758777.57	1.18192b (16120624)			
449368.02	3758791.61 2.	23473b	(16120624)	449371.89
3758791.61	2.13940b (16120624)			
449375.76	3758791.61 2.	05095b	(16120624)	449379.63
3758791.61	1.96877b (16120624)			
449383.50	3758791.61 1.	89535b	(16120624)	449387.37
3758791.61	1.82697b (16120624)			
449391.24	3758791.61 1.	76311b	(16120624)	449395.11
3758791.61	1.70356b (16120624)			
449398.98	3758791.61 1.	64749b	(16120624)	449402.85
3758791.61	1.59477b (16120624)			
449406.72	3758791.61 1.	54512b	(16120624)	449410.59
3758791.61	1.49903b (16120624)			
449414.46	3758791.61 1.	45710b	(16120624)	449418.33
3758791.61	1.41734b (16120624)			
449422.20	3758791.61 1.	37975b	(16120624)	449426.07
3758791.61	1.34383b (16120624)			
449429.94	3758791.61 1.	30963b	(16120624)	449433.81
3758791.61	1.27702b (16120624)			
449437.68	3758791.61 1.	24589b	(16120624)	449441.55
3758791.61	1.21654b (16120624)			
449445.42	3758791.61 1.	18899b	(16120624)	449368.02
3758805.65	2.24016b (16120624)			
449371.89	3758805.65 2.	14717b	(16120624)	449375.76
3758805.65	2.06142b (16120624)			
449379.63	3758805.65 1.	98198b	(16120624)	449383.50
3758805.65	1.90814b (16120624)			
449387.37	3758805.65 1.	83936b	(16120624)	449391.24
3758805.65	1.77512b (16120624)			
449395.11	3758805.65 1.	71499b	(16120624)	449398.98
3758805.65	1.65877b (16120624)			
449402.85	3758805.65 1.	60572b	(16120624)	449406.72
3758805.65	1.55575b (16120624)			
449410.59	3758805.65 1.	50934b	(16120624)	449414.46
3758805.65	1.46707b (16120624)			
449418.33	3758805.65 1.	42699b	(16120624)	449422.20
3/58805.65	1.38894b (16120624)		(4 4 4 9 9 4 9 1 )	
449426.07	3/58805.65 1.	35275b	(16120624)	449429.94
3/58805.65	1.31845b (16120624)	C . )   1/-		
	210N 13131 *** ***	L:\LAKE	S\AEKMUD VIEW\141/2	
		ጥጥጥ	11/11/21	
TTT AERMEI - VERS	LUN 16216 *** ***			

\*\*\* 12:00:31 PAGE 13 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ U\* \*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION \*\*\* VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): L0000287 , L0000288 , L0000289 , L0000290 , L0000291 L0000292 , L0000293 , L0000294 , L0000295 , L0000296 , L0000297 , L0000298 , L0000299 , L0000302 , L0000303 , L0000304 , L0000301 L0000300 , L0000305 , L0000306 , L0000307 L0000308 , L0000309 , L0000310 , L0000311 , L0000312 ر **\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS** \*\*\* \*\* CONC OF PM 2.5 IN MICROGRAMS/M\*\*3 \*\* X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) CONC (YYMMDDHH) Y-COORD (M) - - - - - -- - - - - -. . . . . . . . . . . . . 449433.81 3758805.65 1.28559b (16120624) 449437.68 3758805.65 1.25423b (16120624) 449441.55 3758805.65 1.22425b (16120624) 449445.42 3758805.65 1.19557b (16120624) 449368.02 3758819.69 2.24189b (16120624) 449371.89 3758819.69 2.14893b (16120624) 2.06328b (16120624) 449375.76 3758819.69 449379.63 3758819.69 1.98371b (16120624) 449383.50 3758819.69 1.90980b (16120624) 449387.37 3758819.69 1.84096b (16120624) 449391.24 3758819.69 1.77668b (16120624) 449395.11 3758819.69 1.71674b (16120624) 449398.98 3758819.69 1.66030b (16120624) 449402.85 3758819.69 1.60724b (16120624) 1.55727b (16120624) 449406.72 3758819.69 449410.59 3758819.69 1.51087b (16120624) 449414.46 3758819.69 1.46863b (16120624) 449418.33 3758819.69 1.42857b (16120624) 449422.20 3758819.69 1.39054b (16120624) 449426.07 3758819.69 1.35453b (16120624) 449429.94 3758819.69 1.32009b (16120624) 449433.81 3758819.69 1.28724b (16120624) 449437.68 3758819.69 1.25589b (16120624) 449441.55 3758819.69 1.22592b (16120624)

449445.42	3758819.69	1.19725b	(16120624)	449368.02
3758833.73	2.24301b (16120624)	)		
449371.89	3758833.73	2.14989b	(16120624)	449375.76
3758833.73	2.06416b (16120624)	)		
449379.63	3758833.73	1.98454b	(16120624)	449383.50
3758833.73	1.91059b (16120624)	)		
449387.37	3758833.73	1.84173b	(16120624)	449391.24
3758833.73	1.77744b (16120624)	)		
449395.11	3758833.73	1.71750b	(16120624)	449398.98
3758833.73	1.66106b (16120624)	)		
449402.85	3758833.73	1.60801b	(16120624)	449406.72
3758833.73	1.55805b (16120624)	)	/	
449410.59	3758833.73	1.51167b	(16120624)	449414.46
3758833.73	1.46948b (16120624)	)		
449418.33	3/58833./3	1.42946b	(16120624)	449422.20
3/58833./3	1.3914/b (16120624)		(4 (4 2 2 6 2 4)	
449426.0/	3/58833./3	1.355500	(16120624)	449429.94
3/58833./3	1.321080 (16120624)	) 1 100176	(1(1))	440427 69
449433.81	3/38833./3 1 356046 (16138634)	1.288270	(16120624)	449437.68
3/30033./3 AAQAA1 EE	1.200940 (10120024)	1 22700h	(16120624)	110115 12
449441.00	2/20022./2 1 10825h (1612062/)	1.227000	(10120024)	449445.42
1/9368 02	37588/17 77	/ 2 25997h	(16120624)	1/19371 89
3758847 77	2 16765h (16120624)	)	(10120024)	445571.05
449375 76	3758847 77	, 2 08250h	(16120624)	449379 63
3758847.77	2,00349b (16120624)	)	(1012002+)	
449383.50	3758847.77	, 1.92904b	(16120624)	449387.37
3758847.77	1.85985b (16120624)	)	(	
449391.24	3758847.77	1.79501b	(16120624)	449395.11
3758847.77	1.73429b (16120624)	)	· · · ·	
449398.98	3758847.77	1.67732b	(16120624)	449402.85
3758847.77	1.62375b (16120624)	)		
449406.72	3758847.77	1.57348b	(16120624)	449410.59
3758847.77	1.52622b (16120624)	)		
449414.46	3758847.77	1.48258b	(16120624)	449418.33
3758847.77	1.44142b (16120624)	)		
449422.20	3758847.77	1.40219b	(16120624)	449426.07
3758847.77	1.36491b (16120624)	)		
449429.94	3758847.77	1.32944b	(16120624)	449433.81
3758847.77	1.29564b (16120624)	)	/ · · · · · · · · · · · · · · · · · · ·	
449437.68	3758847.77	1.26340b	(16120624)	449441.55
3758847.77	1.23301b (16120624)	)		
449445.42	3/5884/.//	1.204200	(16120624)	449368.02
3/58861.81	2.2/2500 (16120624)	) 2 10226k	(1(1))	440075 76
4493/1.89	3/58801.81 2 000226 (10120024)	2.182360	(16120624)	4493/5./6
10000C1C	2.090220 (10120024)	) ) 000664	(16120624)	110202 EV
4493/9.03	2/20001.01 1 0/0/26 /1612062/	2.022000	(10120024)	449303.50
ΛΛΩ387 37	3758861 81	1 87882h	(16120624)	110201 21
3758861 81	1 81376h (16120624)	1.070020	(10120027)	
J/ J0001.01	1.012/00 (10120024)	,		
449395.11 3758861.81 1.75285b (16120624) 449398.98 1.69551b (16120624) 3758861.81 449402.85 3758861.81 1.64152b (16120624) 449406.72 1.59063b (16120624) 3758861.81 1.54272b (16120624) 449414.46 449410.59 3758861.81 1.49758b (16120624) 3758861.81 ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 \*\*\* HRA\PM25\PM25.ISC 11/11/21 \*\*\* \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* 12:00:31 PAGE 14 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\* \*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\* L0000287 , L0000288 INCLUDING SOURCE(S): , L0000289 , L0000290 , L0000291 , L0000293 , L0000294 , L0000295 L0000292 , L0000296 , L0000297 , L0000298 , L0000299 L0000300 , L0000301 , L0000302 , L0000303 , L0000304 , L0000307 L0000305 . L0000306 L0000308 , L0000309 , L0000310 , L0000311 , L0000312 ر **\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS** \*\*\* \*\* CONC OF PM 2.5 IN MICROGRAMS/M\*\*3 \*\* X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) (YYMMDDHH) CONC 449418.33 3758861.81 1.45481b (16120624) 449422.20 3758861.81 1.41424b (16120624) 449426.07 3758861.81 1.37584b (16120624) 449429.94 1.33916b (16120624) 3758861.81 449433.81 3758861.81 1.30423b (16120624) 449437.68 3758861.81 1.27091b (16120624) 449441.55 3758861.81 1.23990b (16120624) 449445.42 3758861.81 1.21090b (16120624) 449368.02 3758875.85 2.27672b (16120624) 449371.89 2.18734b (16120624) 3758875.85 449375.76 3758875.85 2.10422b (16120624) 449379.63 2.02690b (16120624) 3758875.85 449383.50 3758875.85 1.95646b (16120624) 449387.37 3758875.85 1.88742b (16120624) 449391.24 3758875.85 1.82476b (16120624) 449395.11

3758875.85	1.76368b (161206	524)		
449398.98	3758875.85	1.70640b	(16120624)	449402.85
3758875.85	1.65226b (161206	524)		
449406.72	3758875.85	1.60120b	(16120624)	449410.59
3758875.85	1.55292b (161206	524)		
449414.46	3758875.85	1.50725b	(16120624)	449418.33
3758875.85	1.46410b (161206	524)		
449422.20	3758875.85	1.42301b	(16120624)	449426.07
3758875.85	1.38396b (161206	524)		
449429.94	3758875.85	1.34680b	(16120624)	449433.81
3758875.85	1.31140b (161206	524)		
449437.68	3758875.85	1.27777b	(16120624)	449441.55
3758875.85	1.24644b (161206	524)		
449445.42	3758875.85	1.21725b	(16120624)	449368.02
3758889.89	2.27775b (161206	524)		
449371.89	3758889.89	2.18861b	(16120624)	449375.76
3758889.89	2.10587b (161206	524)		
449379.63	3758889.89	2.03214b	(16120624)	449383.50
3758889.89	1.96027b (161206	524)		
449387.37	3758889.89	1.89431b	(16120624)	449391.24
3758889.89	1.83001b (161206	524)		
449395.11	3758889.89	1.77124b	(16120624)	449398.98
3758889.89	1.71385b (161206	524)		
449402.85	3758889.89	1.65978b	(16120624)	449406.72
3758889.89	1.60864b (161206	524)		
449410.59	3758889.89	1.56025b	(16120624)	449414.46
3758889.89	1.51445b (161206	524)		
449418.33	3758889.89	1.47102b	(16120624)	449422.20
3758889.89	1.42994b (161206	524)		
449426.07	3758889.89	1.39074b	(16120624)	449429.94
3758889.89	1.35344b (161206	524)		
449433.81	3758889.89	1.31789b	(16120624)	449437.68
3758889.89	1.28398b (161206	524)		
449441.55	3758889.89	1.25262b	(16120624)	449445.42
3758889.89	1.22324b (161206	524)		
449368.02	3758903.93	2.27599b	(16120624)	449371.89
3758903.93	2.18711b (161206	524)		
449375.76	3758903.93	2.10501b	(16120624)	449379.63
3758903.93	2.02875b (161206	524)		
449383.50	3758903.93	1.96154b	(16120624)	449387.37
3758903.93	1.89499b (161206	524)		
449391.24	3758903.93	1.83487b	(16120624)	449395.11
3758903.93	1.77538b (161206	524)		
449398.98	3758903.93	1.72112b	(16120624)	449402.85
3758903.93	1.66747b (161206	524)		
449406.72	3758903.93	1.61852b	(16120624)	449410.59
3758903.93	1.57008b (161206	524)		
449414.46	3758903.93	1.52384b	(16120624)	449418.33
3758903.93	1.47995b (161206	524)		
449422.20	3758903.93	1.43822b	(16120624)	449426.07

3758903.93 1.39851b (16120624) 449429.94 3758903.93 1.36069b (16120624) 449433.81 3758903.93 1.32462b (16120624) 449437.68 3758903.93 1.29020b (16120624) 449441.55 3758903.93 1.25830b (16120624) 449445.42 3758903.93 1.22888b (16120624) 449368.02 3758917.97 2.26308b (16120624) 449371.89 3758917.97 2.17457b (16120624) 449375.76 3758917.97 2.09263b (16120624) 449379.63 3758917.97 2.01689b (16120624) 449383.50 3758917.97 1.95348b (16120624) 449387.37 3758917.97 1.88882b (16120624) 449391.24 3758917.97 1.83174b (16120624) 449395.11 3758917.97 1.77398b (16120624) 449398.98 3758917.97 1.72251b (16120624) ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 \*\*\* HRA\PM25\PM25.ISC 11/11/21 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* \*\*\* 12:00:31 PAGE 15 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ U\* \*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\* INCLUDING SOURCE(S): L0000287 , L0000288 , L0000291 , L0000289 , L0000290 , L0000294 , L0000293 , L0000295 , L0000296 L0000292 , L0000297 , L0000298 , L0000299 , L0000302 , L0000303 L0000300 , L0000301 , L0000304 , L0000305 . L0000306 . L0000307 , L0000310 L0000308 , L0000309 , L0000311 , L0000312

## **\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS**

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\*\* CONC OF PM 2.5 IN MICROGRAMS/M\*\*3

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X-COORD (M) Y-COORD (M)	Y-COORD (M) CONC (YYMMDDI	CONC HH)	(YYMMDDHH)	X-COORD (M)
449402.85	3758917.97	1.67036b	(16120624)	449406.72
3758917.97	1.62338b (1612062	24)		
449410.59	3758917.97	1.57575b	(16120624)	449414.46
3758917.97	1.53190b (161206)	24)		
449418.33	3758917.97	1.48957b	(16120624)	449422.20
3758917.97	1.44724b (1612062	24)		

449426.07	3758917.97 1.40683b	(16120624)	449429.94
3758917.97	1.36811b (16120624)		
449433.81	3758917.97 1.33125b	(16120624)	449437.68
3758917.97	1.29601b (16120624)		
449441.55	3758917.97 1.26373b	(16120624)	449445.42
3758917.97	1.23403b (16120624)		
449368.02	3758932.01 2.25254b	(16120624)	449371.89
3758932.01	2.16380b (16120624)		
449375.76	3758932.01 2.08181b	(16120624)	449379.63
3758932.01	2.00595b (16120624)		
449383.50	3758932.01 1.93913b	(16120624)	449387.37
3758932.01	1.88213b (16120624)		
449391.24	3758932.01 1.82257b	(16120624)	449395.11
3758932.01	1.77068b (16120624)	(	
449398.98	3758932.01 1.71710b	(16120624)	449402.85
3758932.01	1.66981b (16120624)	(	
449406.72	3758932.01 1.62129b	(16120624)	449410.59
3/58932.01	1.5/805b (16120624)	(1 (1 2 2 ( 2 1 )	
449414.46	3/58932.01 1.535490	(16120624)	449418.33
3/58932.01	1.491890 (16120624)	(1 (1 2 0 ( 2 1 )	440406 07
449422.20	3/58932.01 1.451880	(16120624)	449426.07
3/58932.01	1.41323D (16120624)	(1(1)0())	440422 01
449429.94	3/58932.01 1.3/42/D	(16120624)	449433.81
3/58932.01	1.336980 (16120624)	(1(1)0())	
449437.00	3/38932.01 1.301380 1 268656 (16120624)	(16120624)	449441.55
1/0//5 /2	1.200050 ( $10120024$ ) 2758022 $01$ 1 22847b	(16120624)	110269 02
37589/6 05	2 2/27/h (16120624)	(10120024)	449508.02
<i>1/</i> 9371 89	37589/6 05 2 15/0/h	(16120624)	119375 76
3758946 05	2 07213h (16120624)	(10120024)	
449379,63	3758946.05 1.99641h	(16120624)	449383.50
3758946.05	1,93785h (16120624)	(10120021)	119909.90
449387.37	3758946.05 1.87549h	(16120624)	449391.24
3758946.05	1.82221b (16120624)	(1012002.)	11999212
449395.11	3758946.05 1.76647b	(16120624)	449398.98
3758946.05	1.71774b (16120624)		
449402.85	3758946.05 1.66734b	(16120624)	449406.72
3758946.05	1.62281b (16120624)	· · · ·	
449410.59	3758946.05 1.57709b	(16120624)	449414.46
3758946.05	1.53586b (16120624)	· · · ·	
449418.33	3758946.05 1.49541b	(16120624)	449422.20
3758946.05	1.45387b (16120624)		
449426.07	3758946.05 1.41584b	(16120624)	449429.94
3758946.05	1.37888b (16120624)		
449433.81	3758946.05 1.34165b	(16120624)	449437.68
3758946.05	1.30597b (16120624)		
449441.55	3758946.05 1.27285b	(16120624)	449445.42
3758946.05	1.24202b (16120624)		
449368.02	3758960.09 2.23280b	(16120624)	449371.89
3758960.09	2.14436b (16120624)		

449375.76 2.06265b (16120624) 3758960.09 449379.63 3758960.09 1.98712b (16120624) 449387.37 449383.50 3758960.09 1.93048b (16120624) 3758960.09 1.86858b (16120624) 449391.24 3758960.09 1.81663b (16120624) 449395.11 3758960.09 1.76120b (16120624) 449398.98 3758960.09 1.71368b (16120624) 449402.85 3758960.09 1.66374b (16120624) 449406.72 3758960.09 1.62012b (16120624) 449410.59 3758960.09 1.57487b (16120624) 449414.46 3758960.09 1.53493b (16120624) 449418.33 3758960.09 1.49559b (16120624) 3758960.09 1.45480b (16120624) 449426.07 449422.20 3758960.09 1.41743b (16120624) 449429.94 3758960.09 1.38113b (16120624) 449433.81 3758960.09 1.34585b (16120624) 449437.68 3758960.09 1.31023b (16120624) 449441.55 3758960.09 1.27678b (16120624) 449445.42 3758960.09 1.24514b (16120624) 449368.02 2.24152b (16120624) 3758974.13 449371.89 3758974.13 2.15262b (16120624) 449375.76 3758974.13 2.07050b (16120624) 449379.63 3758974.13 1.99458b (16120624) 449383.50 3758974.13 1.93541b (16120624) ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 \*\*\* 11/11/21 HRA\PM25\PM25.ISC \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* \*\*\* 12:00:31 PAGE 16 RegDFAULT CONC ELEV URBAN ADJ U\* \*\*\* MODELOPTs: \*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\* INCLUDING SOURCE(S): , L0000288 L0000287 , L0000289 , L0000291 , L0000290 , L0000293 , L0000295 L0000292 L0000294 L0000296 L0000297 , L0000298 L0000299 L0000300 , L0000301 L0000302 , L0000303 L0000304 L0000305 , L0000306 , L0000307 L0000308 , L0000309 , L0000310 , L0000311 , L0000312 ر **\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS** \*\* CONC OF PM 2.5 IN MICROGRAMS/M\*\*3 \*\*

CONC

(YYMMDDHH)

X-COORD (M)

X-COORD (M) Y-COORD (M)

Y-COORD (M)

CONC

449387.37	3758974.13 1.87201b	 (16120624)	449391.24
3758974.13	1.81252b (16120624)		
449395.11	3758974.13 1.76246b	(16120624)	449398.98
3758974.13	1.70956b (16120624)		
449402.85	3758974.13 1.66406b	(16120624)	449406.72
3758974.13	1.61642b (16120624)		
449410.59	3758974.13 1.57151b	(16120624)	449414.46
3758974.13	1.53267b (16120624)		
449418.33	3758974.13 1.49453b	(16120624)	449422.20
3758974.13	1.45705b (16120624)		
449426.07	3758974.13 1.41809b	(16120624)	449429.94
3758974.13	1.38241b (16120624)	(	
449433.81	3758974.13 1.34773b	(16120624)	449437.68
3758974.13	1.31403b (16120624)	(1 (1 0 0 0 0 1)	
449441.55	3/589/4.13 1.280216	(16120624)	449445.42
3/589/4.13	1.24804b (16120624)	(1 (1 2 2 ( 2 1 )	440074 00
449368.02	3/58988.1/ 2.24843b	(16120624)	4493/1.89
3/58988.1/	2.15901b (16120624)	(1 (1 2 2 ( 2 1 )	440070 60
4493/5./6	3/58988.1/ 2.0/6450	(16120624)	4493/9.63
3/58988.1/	1.99996b (16120624)	(1(1))())	440207 27
449383.50	3/58988.1/ 1.939030	(16120624)	449387.37
3/58988.1/	1.8/4/10 (16120624)	(1(1)0())	440205 11
449391.24	3/58988.1/ 1.81446D	(16120624)	449395.11
3/58988.1/	1.757740 (16120624)	(16120624)	440402 95
449398.98	3/38988.1/ I./099/U	(10120024)	449402.85
1/00000.1/	1.059500 (10120024) 2750000 17 1 61102b	(16120624)	110110 50
3758088 17	1 57137b (16120624)	(10120024)	449410.39
1/9/1/ /6	3758988 17 1 52939h	(16120624)	119118 33
3758988 17	1 A9230b (16120624)	(10120024)	449410.99
449422 20	3758988 17 1 45578h	(16120624)	449426 07
3758988,17	1,41754h (16120624)	(1012002+)	449420.07
449429.94	3758988.17 1.38270b	(16120624)	449433.81
3758988.17	1.34862b (16120624)	()	
449437.68	3758988.17 1.31547b	(16120624)	449441.55
3758988.17	1.28174b (16120624)	(	
449445.42	3758988.17 1.25061b	(16120624)	449368.02
3759002.21	2.23451b (16120624)	· · · · ·	
449371.89	3759002.21 2.14546b	(16120624)	449375.76
3759002.21	2.06321b (16120624)	· · · ·	
449379.63	3759002.21 1.98722b	(16120624)	449383.50
3759002.21	1.92989b (16120624)		
449387.37	3759002.21 1.86686b	(16120624)	449391.24
3759002.21	1.81470b (16120624)		
449395.11	3759002.21 1.75888b	(16120624)	449398.98
3759002.21	1.70620b (16120624)		
449402.85	3759002.21 1.66132b	(16120624)	449406.72

3759002.21	1.61397b (16120624)	
449410.59	3759002.21 1.57310b (16120624)	449414.46
3759002.21	1.53051b (16120624)	
449418.33	3759002.21 1.49294b (16120624)	449422.20
3759002.21	1.45359b (16120624)	
449426.07	3759002.21 1.41829b (16120624)	449429.94
3759002.21	1.38378b (16120624)	
449433.81	3759002.21 1.34829b (16120624)	449437.68
3759002.21	1.31605b (16120624)	
449441.55	3759002.21 1.28279b (16120624)	449445.42
3759002.21	1.25209b (16120624)	
449368.02	3759016.25 2.23019b (16120624)	449371.89
3759016.25	2.14141b (16120624)	
449375.76	3759016.25 2.05938b (16120624)	449379.63
3759016.25	1.98358b (16120624)	
449383.50	3759016.25 1.91859b (16120624)	449387.37
3759016.25	1.86616b (16120624)	
449391.24	3759016.25 1.80819b (16120624)	449395.11
3759016.25	1.75973b (16120624)	
449398.98	3759016.25 1.70755b (16120624)	449402.85
3759016.25	1.65814b (16120624)	
449406.72	3759016.25 1.61571b (16120624)	449410.59
3759016.25	1.57070b (16120624)	
449414.46	3759016.25 1.53137b (16120624)	449418.33
3759016.25	1.49024b (16120624)	
449422.20	3759016.25 1.45396b (16120624)	449426.07
3759016.25	1.41608b (16120624)	
449429.94	3759016.25 1.38225b (16120624)	449433.81
3759016.25	1.34724b (16120624)	
449437.68	3759016.25 1.31579b (16120624)	449441.55
3759016.25	1.28487b (16120624)	
449445.42	3759016.25 1.25280b (16120624)	449368.02
3759030.29	2.25050b (16120624)	
★ *** AERMOD - VEF	SION 19191 *** *** C:\LAKES\AERMOD VIEW\14172	
HRA\PM25\PM25.ISC	*** 11/11/21	
*** AERMET - VERS	10N 16216 *** ***	
	*** 12:00:31	

## PAGE 17

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\* \*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION \*\*\* VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): L0000287 , L0000288 , L0000289 , L0000291 , L0000290 ر , L0000294 , L0000295 L0000292 , L0000293 , L0000296 , L0000297 , L0000298 , L0000299 ر L0000300 , L0000301 , L0000302 , L0000303 , L0000304 , L0000307 , L0000305 , L0000306 ر , L0000310 L0000308 , L0000309 , L0000311 , L0000312

## \*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\* CONC OF PM\_2.5 IN MICROGRAMS/M\*\*3

X-COORD (M) Y-COORD (M)	Y-COORD CONC	(M) (YYMMDDHH)	CONC ) 	(YYMMDDHH)	X-COORD (N	۹) -
449371.89	 3759030	 .29	 2.16043b	 (16120624)	449375.7	76
3759030.29	2.07728b	(16120624)	)			
449379.63	3759030	.29	2.00046b	(16120624)	449383.5	50
3759030.29	1.94121b	(16120624)	)			
449387.37	3759030	.29	1.87806b	(16120624)	449391.2	24
3759030.29	1.82409b	(16120624)	)			
449395.11	3759030	.29	1.76765b	(16120624)	449398.9	98
3759030.29	1.71852b	(16120624)	)			
449402.85	3759030	.29	1.66759b	(16120624)	449406.7	72
3759030.29	1.62268b	(16120624)	)			
449410.59	3759030	.29	1.57644b	(16120624)	449414.4	46
3759030.29	1.53533b	(16120624)	)			
449418.33	3759030	.29	1.49347b	(16120624)	449422.2	20
3759030.29	1.45331b	(16120624)	)			
449426.07	3759030	.29	1.41743b	(16120624)	449429.9	94
3759030.29	1.38090b	(16120624)	)			
449433.81	3759030	.29	1.34794b	(16120624)	449437.6	68
3759030.29	1.31443b	(16120624)	)			
449441.55	3759030	.29	1.28347b	(16120624)	449445.4	42
3759030.29	1.25125b	(16120624)	)			
449368.02	3759044	.33	2.27383b	(16120624)	449371.8	89
3759044.33	2.18259b	(16120624)	)			
449375.76	3759044	.33	2.09842b	(16120624)	449379.6	63
3759044.33	2.02079b	(16120624)	)			
449383.50	3759044	.33	1.95709b	(16120624)	449387.3	37
3759044.33	1.89194b	(16120624)	)			
449391.24	3759044	.33	1.83470b	(16120624)	449395.1	11
3759044.33	1.77659b	(16120624)	)	(		
449398.98	3759044	.33	1.72498b	(16120624)	449402.8	85
3759044.33	1.67270b	(16120624)	)	(		
449406.72	3759044	.33	1.62574b	(16120624)	449410.5	59
3759044.33	1.578476	(16120624)	)	(4 6 4 9 9 6 9 4)		• •
449414.46	3759044	.33	1.533826	(16120624)	449418.3	33
3759044.33	1.49376b	(16120624)	)	(		
449422.20	3/59044	.33	1.45351b	(16120624)	449426.0	87
3/59044.33	1.41520b	(16120624)	)	(1010000)		~ ~
449429.94	3759044	. 33	1.380/50	(16120624)	449433.8	31
3759044.33	1.34592b	(16120624)	)			

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449437.68 3759044.33 1.31269b (16120624) 449441.55 3759044.33 1.28172b (16120624) 449445.42 3759044.33 1.24937b (16120624) ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 HRA\PM25\PM25.ISC \*\*\* 11/11/21 \*\*\* \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* 12:00:31 PAGE 18 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ U\* \*\*\* THE SUMMARY OF HIGHEST 24-HR **RESULTS** \*\*\* \*\* CONC OF PM 2.5 IN MICROGRAMS/M\*\*3 \*\* DATE NETWORK GROUP ID (YYMMDDHH) AVERAGE CONC RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID . . . . . . . . . . . . . . - - - - - - - -ALL HIGH 1ST HIGH VALUE IS 2.27775b ON 16120624: AT ( 449368.02, 3758889.89, 195.17, 195.17, 0.00) DC \*\*\* RECEPTOR TYPES: GC = GRIDCART GP = GRIDPOLRDC = DISCCART DP = DISCPOLR ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 \*\*\* HRA\PM25\PM25.ISC 11/11/21 \*\*\* \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* 12:00:31 PAGE 19 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\* \*\*\* Message Summary : AERMOD Model Execution \*\*\* ----- Summary of Total Messages ------A Total of 0 Fatal Error Message(s) 2 Warning Message(s) 1638 Informational Message(s) A Total of A Total of

- A Total of 43848 Hours Were Processed
- A Total of 1039 Calm Hours Identified

A Total of 599 Missing Hours Identified ( 1.37 Percent)

\*\*\*\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*\*\* \*\*\* NONE \*\*\*

\*\*\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*\*
ME W186 130 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used
0.50
ME W187 130 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\* Lakes Environmental AERMOD MPI \*\* \*\* \*\* AERMOD INPUT PRODUCED BY: \*\* AERMOD VIEW VER. 10.0.1 \*\* LAKES ENVIRONMENTAL SOFTWARE INC. \*\* DATE: 11/11/2021 \*\* FILE: C:\LAKES\AERMOD VIEW\14172 HRA\TOGGAS\TOGGAS.ADI \*\* \*\* \*\* \*\* AERMOD CONTROL PATHWAY \*\*\*\*\*\*\*\*\*\*\*\*\* \*\* \*\* CO STARTING TITLEONE C:\LAKES\AERMOD VIEW\14172 HRA\TOGGAS\TOGGAS.ISC MODELOPT DFAULT CONC AVERTIME 1 8 ANNUAL URBANOPT 2189641 POLLUTID TOGGAS RUNORNOT RUN ERRORFIL TOGGAS.ERR CO FINISHED \*\* 

\*\* AERMOD SOURCE PATHWAY \*\* \*\* SO STARTING \*\* SOURCE LOCATION \*\* \*\* SOURCE ID - TYPE - X COORD. - Y COORD. \*\* \*\* \_\_\_\_\_ \*\* LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES \*\* LINE VOLUME SOURCE ID = SLINE1 \*\* DESCRSRC I-15 FREEWAY \*\* PREFIX \*\* LENGTH OF SIDE = 46.00**\*\*** CONFIGURATION = ADJACENT \*\* EMISSION RATE = 0.00479 **\*\*** VERTICAL DIMENSION = 6.99 \*\* SZINIT = 3.25 \*\* NODES = 2\*\* 449288.372, 3758373.924, 188.51, 3.49, 21.40 \*\* 449298.585, 3759554.578, 201.92, 3.49, 21.40 \*\* \_\_\_\_\_ LOCATION L0000183 VOLUME 449288.571 3758396.923 188.77 LOCATION L0000184 VOLUME 449288.969 3758442.921 189.29 449289.367 3758488.920 189.82 LOCATION L0000185 VOLUME LOCATION L0000186 VOLUME 449289.765 3758534.918 190.34 LOCATION L0000187 449290.163 3758580.916 190.86 VOLUME LOCATION L0000188 VOLUME 449290.561 3758626.914 191.38 LOCATION L0000189 449290.958 3758672.913 191.91 VOLUME LOCATION L0000190 VOLUME 449291.356 3758718.911 192.43 LOCATION L0000191 VOLUME 449291.754 3758764.909 192.95 449292.152 3758810.908 193.47 LOCATION L0000192 VOLUME LOCATION L0000193 VOLUME 449292.550 3758856.906 194.00 LOCATION L0000194 449292.948 3758902.904 194.52 VOLUME LOCATION L0000195 VOLUME 449293.346 3758948.902 195.04 449293.744 3758994.901 195.56 LOCATION L0000196 VOLUME LOCATION L0000197 VOLUME 449294.142 3759040.899 196.09 449294.540 3759086.897 196.61 LOCATION L0000198 VOLUME LOCATION L0000199 VOLUME 449294.938 3759132.895 197.13 449295.335 3759178.894 197.65 LOCATION L0000200 VOLUME 449295.733 3759224.892 198.18 LOCATION L0000201 VOLUME LOCATION L0000202 VOLUME 449296.131 3759270.890 198.70 LOCATION L0000203 VOLUME 449296.529 3759316.889 199.22 LOCATION L0000204 VOLUME 449296.927 3759362.887 199.74 LOCATION L0000205 VOLUME 449297.325 3759408.885 200.27 449297.723 3759454.883 200.79 LOCATION L0000206 VOLUME 449298.121 3759500.882 201.31 LOCATION L0000207 VOLUME 449298.519 3759546.880 201.83 LOCATION L0000208 VOLUME \*\* END OF LINE VOLUME SOURCE ID = SLINE1 \*\* SOURCE PARAMETERS \*\* \*\* LINE VOLUME SOURCE ID = SLINE1

	SRCPARAM	L0000183	0.0001842308	3.49	21.40	3.25
	SRCPARAM	L0000184	0.0001842308	3.49	21.40	3.25
	SRCPARAM	L0000185	0.0001842308	3.49	21.40	3.25
	SRCPARAM	L0000186	0.0001842308	3.49	21.40	3.25
	SRCPARAM	L0000187	0.0001842308	3.49	21.40	3.25
	SRCPARAM	L0000188	0.0001842308	3.49	21.40	3.25
	SRCPARAM	L0000189	0.0001842308	3.49	21.40	3.25
	SRCPARAM	L0000190	0.0001842308	3.49	21.40	3.25
	SRCPARAM	L0000191	0.0001842308	3.49	21.40	3.25
	SRCPARAM	L0000192	0.0001842308	3.49	21.40	3.25
	SRCPARAM	L0000193	0.0001842308	3.49	21.40	3.25
	SRCPARAM	L0000194	0.0001842308	3.49	21.40	3.25
	SRCPARAM	L0000195	0.0001842308	3.49	21.40	3.25
	SRCPARAM	L0000196	0.0001842308	3.49	21.40	3.25
	SRCPARAM	L0000197	0.0001842308	3.49	21.40	3.25
	SRCPARAM	L0000198	0.0001842308	3.49	21.40	3.25
	SRCPARAM	L0000199	0.0001842308	3.49	21.40	3.25
	SRCPARAM	L0000200	0.0001842308	3.49	21.40	3.25
	SRCPARAM	L0000201	0.0001842308	3.49	21.40	3.25
	SRCPARAM	L0000202	0.0001842308	3.49	21.40	3.25
	SRCPARAM	L0000203	0.0001842308	3.49	21.40	3.25
	SRCPARAM	L0000204	0.0001842308	3.49	21.40	3.25
	SRCPARAM	L0000205	0.0001842308	3.49	21.40	3.25
	SRCPARAM	L0000206	0.0001842308	3.49	21.40	3.25
	SRCPARAM	L0000207	0.0001842308	3.49	21.40	3.25
	SRCPARAM	L0000208	0.0001842308	3.49	21.40	3.25
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	URBANSRC	ALL				
	SRCGROUP	ALL				
S0	FINISHED					
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***	********	************	******			
**	AERMOD RE	ECEPTOR PATHWA	ΑY			
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	INCLUDED	TOGGAS.ROU				
RE	FINISHED					
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**	AERMOD ME		HWAY			
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~ <del>~</del>	CTADITUS					
ME	STARTING					
	SUKFFILE	\KKAL_V9_AL	JU/KKAL_V9.SFC			
	PRUFFILE	\KKAL_V9_AL	JU/KKAL_V9.PFL			
	SUKEDATA	31/1 2012				
	UATKDATA	3190 2012				

PROFBASE 245.0 METERS ME FINISHED \*\* \*\* AERMOD OUTPUT PATHWAY \*\*\*\*\* \*\* \*\* OU STARTING **RECTABLE ALLAVE 1ST RECTABLE 1 1ST RECTABLE 8 1ST \*\*** AUTO-GENERATED PLOTFILES PLOTFILE 1 ALL 1ST TOGGAS.AD\01H1GALL.PLT 31 PLOTFILE 8 ALL 1ST TOGGAS.AD\08H1GALL.PLT 32 PLOTFILE ANNUAL ALL TOGGAS.AD\AN00GALL.PLT 33 SUMMFILE TOGGAS.SUM OU FINISHED \*\*\* Message Summary For AERMOD Model Setup \*\*\* ----- Summary of Total Messages ------A Total of 0 Fatal Error Message(s) A Total of 2 Warning Message(s) A Total of 0 Informational Message(s) \*\*\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*\*\* \*\*\* NONE \*\*\* \*\*\*\*\*\*\* \*\*\*\*\*\* WARNING MESSAGES ME W186 130 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50 ME W187 MEOPEN: ADJ U\* Option for Stable Low Winds used in AERMET 130 \*\*\* SETUP Finishes Successfully \*\*\* ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 \*\*\* HRA\TOGGAS\TOGGAS.ISC 11/11/21 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* \*\*\* 11:24:07 PAGE 1 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ U\*

\*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\* . . . . . . . . . . . . . . . . . . \*\*Model Is Setup For Calculation of Average CONCentration Values. -- DEPOSITION LOGIC --\*\*NO GAS DEPOSITION Data Provided. \*\*NO PARTICLE DEPOSITION Data Provided. \*\*Model Uses NO DRY DEPLETION. DRYDPLT = F \*\*Model Uses NO WET DEPLETION. WETDPLT = F \*\*Model Uses URBAN Dispersion Algorithm for the SBL for 26 Source(s), for Total of 1 Urban Area(s): 2189641.0 ; Urban Roughness Length = 1.000 m Urban Population = \*\*Model Uses Regulatory DEFAULT Options: 1. Stack-tip Downwash. 2. Model Accounts for ELEVated Terrain Effects. 3. Use Calms Processing Routine. 4. Use Missing Data Processing Routine. 5. No Exponential Decay. 6. Urban Roughness Length of 1.0 Meter Assumed. \*\*Other Options Specified: ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET CCVR Sub - Meteorological data includes CCVR substitutions TEMP\_Sub - Meteorological data includes TEMP substitutions \*\*Model Assumes No FLAGPOLE Receptor Heights. \*\*The User Specified a Pollutant Type of: TOGGAS \*\*Model Calculates 2 Short Term Average(s) of: 1-HR 8-HR and Calculates ANNUAL Averages \*\*This Run Includes: 26 Source(s); 1 Source Group(s); and 441 Receptor(s) with: 0 POINT(s), including 0 POINTHOR(s) 0 POINTCAP(s) and 26 VOLUME source(s) and: Ø AREA type source(s) and: and: 0 LINE source(s) 0 RLINE/RLINEXT source(s) 0 OPENPIT source(s) and: and: and: 0 BUOYANT LINE source(s) with 0 line(s)

\*\*Model Set To Continue RUNning After the Setup Testing. \*\*The AERMET Input Meteorological Data Version Date: 16216 \*\*Output Options Selected: Model Outputs Tables of ANNUAL Averages by Receptor Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword) Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword) Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword) \*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours m for Missing Hours b for Both Calm and Missing Hours \*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 245.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0 Emission Units = GRAMS/SEC ; 0.10000E+07 Emission Rate Unit Factor = = MICROGRAMS/M\*\*3 Output Units \*\*Approximate Storage Requirements of Model = 3.6 MB of RAM. \*\*Input Runstream File: aermod.inp \*\*Output Print File: aermod.out \*\*Detailed Error/Message File: TOGGAS.ERR \*\*File for Summary of Results: TOGGAS.SUM ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 HRA\TOGGAS\TOGGAS.ISC \*\*\* 11/11/21 \*\*\* \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* 11:24:07 PAGE 2 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ U\* \*\*\* VOLUME SOURCE DATA \*\*\* NUMBER EMISSION RATE BASE RELEASE INIT. INIT. URBAN EMISSION RATE

SOURCE	PART.	(GRAMS/SEC)	Х	Y	ELEV.	HEIGHT	SY
SZ SOURCE	SCALAR	VARY					
ID	CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		BY					
L0000183	0	0.18423E-03	449288.6	3758396.9	188.8	3.49	21.40
L0000184	0	0.18423E-03	449289.0	3758442.9	189.3	3.49	21.40
3.25 YES L0000185	0	0.18423E-03	449289.4	3758488.9	189.8	3.49	21.40
3.25 YES	0	A 19422E A2	110200 0	2759524 0	100 2	2 40	21 40
3.25 YES	0	0.104251-05	449289.8		190.5	5.49	21.40
L0000187 3.25 YES	0	0.18423E-03	449290.2	3758580.9	190.9	3.49	21.40
L0000188 3.25 YES	0	0.18423E-03	449290.6	3758626.9	191.4	3.49	21.40
L0000189	0	0.18423E-03	449291.0	3758672.9	191.9	3.49	21.40
L0000190	0	0.18423E-03	449291.4	3758718.9	192.4	3.49	21.40
3.25 YES L0000191	0	0.18423E-03	449291.8	3758764.9	193.0	3.49	21.40
3.25 YES L0000192	0	0.18423E-03	449292.2	3758810.9	193.5	3.49	21.40
3.25 YES	Ø	0 18423F-03	449292 5	3758856 9	194 0	3 49	21 40
3.25 YES	0		440202.0	2750000	104 5	2.40	21.40
10000194 3.25 YES	0	0.18423E-03	449292.9	3/58902.9	194.5	3.49	21.40
L0000195 3.25 YES	0	0.18423E-03	449293.3	3758948.9	195.0	3.49	21.40
L0000196	0	0.18423E-03	449293.7	3758994.9	195.6	3.49	21.40
L0000197	0	0.18423E-03	449294.1	3759040.9	196.1	3.49	21.40
L0000198	0	0.18423E-03	449294.5	3759086.9	196.6	3.49	21.40
3.25 YES L0000199	0	0.18423E-03	449294.9	3759132.9	197.1	3.49	21.40
3.25 YES	0	0.18423F-03	449295.3	3759178.9	197.7	3,49	21.40
3.25 YES	0		440205 7	2750224 0	109 0	2 40	21 40
3.25 YES	0	0.10423E-03	443233./	5159224.9	190.2	3.49	21.40
L0000202 3.25 YES	0	0.18423E-03	449296.1	3759270.9	198.7	3.49	21.40
L0000203	0	0.18423E-03	449296.5	3759316.9	199.2	3.49	21.40
L0000204	0	0.18423E-03	449296.9	3759362.9	199.7	3.49	21.40

3.25 YES L0000205 0.18423E-03 449297.3 3759408.9 200.3 3.49 21.40 0 3.25 YES L0000206 0.18423E-03 449297.7 3759454.9 200.8 21.40 0 3.49 YES 3.25 L0000207 0 0.18423E-03 449298.1 3759500.9 201.3 3.49 21.40 3.25 YES L0000208 0 0.18423E-03 449298.5 3759546.9 201.8 21.40 3.49 3.25 YES ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 \*\*\* HRA\TOGGAS\TOGGAS.ISC 11/11/21 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* \*\*\* 11:24:07 PAGE 3 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ U\* \*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\* SRCGROUP ID SOURCE IDs \_ ALL L0000183 , L0000184 , L0000185 , L0000186 , L0000187 , L0000188 , L0000189 , L0000190 , , L0000193 , L0000194 L0000191 , L0000192 , L0000195 ر , L0000198 L0000196 , L0000197 ر L0000199 , L0000200 , L0000201 , L0000202 , L0000203 , , L0000205 , L0000206 L0000204 ر , L0000208 L0000207 ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 \*\*\* HRA\TOGGAS\TOGGAS.ISC 11/11/21 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* \*\*\* 11:24:07 PAGE 4 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\* \*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

URBAN ID URBAN POP SOURCE IDs

L0000183 , L0000184 2189641. , L0000185 , L0000186 , L0000187 , L0000188 , L0000189 , L0000190 , L0000191 , L0000193 , L0000194 , L0000192 , L0000195 ر , L0000198 L0000196 , L0000197 ر L0000199 , L0000202 , L0000200 , L0000201 , L0000203 ر L0000204 , L0000205 , L0000206 • L0000207 , L0000208 ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 \*\*\* HRA\TOGGAS\TOGGAS.ISC 11/11/21 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* \*\*\* 11:24:07 PAGE 5 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ U\* \*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\* (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG) (METERS) (449368.0, 3758763.5, 192.6, 0.0); 195.0, (449371.9, 0.0); 195.0, 3758763.5, 192.2, (449375.8, 3758763.5, 191.8, 195.0, 0.0); (449379.6, 195.0, 3758763.5, 0.0); 191.4, 191.2, (449383.5, 3758763.5, 195.0, 0.0); (449387.4)195.0, 0.0); 3758763.5, 190.9, 190.6, (449391.2, 3758763.5, 190.6, 0.0);(449395.1,190.4, 3758763.5, 190.4, 0.0);190.1, (449399.0, 3758763.5, 190.1, 0.0); (449402.8, 3758763.5, 189.9, 189.9, 0.0); 189.6, ( 449410.6, (449406.7, 3758763.5, 0.0); 189.6, 3758763.5, 189.4, 189.4, 0.0); 189.3, 189.3, (449414.5, 3758763.5, 0.0); (449418.3. 189.1, 0.0); 3758763.5, 189.1, (449422.2, 3758763.5, 189.0, 0.0); (449426.1, 189.0, 3758763.5, 188.9, 188.9, 0.0);188.7, (449429.9, 3758763.5, 188.7, 0.0); (449433.8)3758763.5, 188.6, 188.6, 0.0);188.5, (449437.7, 3758763.5, 188.5, 0.0); (449441.5,3758763.5, 188.4, 188.4, 0.0);(449445.4, 3758763.5, 188.3, 0.0); (449368.0, 188.3, 0.0); 3758777.6, 192.5, 195.0, 192.0, (449371.9, 3758777.6, 195.0, 0.0); (449375.8)0.0); 3758777.6, 191.5, 195.0, 191.0, 0.0); (449383.5,(449379.6, 3758777.6, 195.0, 3758777.6, 190.8, 195.0, 0.0);

( 449387.4	4, 3758777.6	5, 190.5,	195.0,	0.0);	( 4	449391.2,
3758777.6,	190.3,	195.0,	0.0);	0.0).		140200 0
( 449395	190 7	), 190.0, 195.0	195.0,	0.0);	( 2	49399.0,
( 449402.8	3758777.6	195.0, 189.5.	195.0.	0.0):	( 4	149406.7.
3758777.6,	189.2,	195.0,	0.0);	,	`	
( 449410.6	5, 3758777.6	5, 189.0,	189.0,	0.0);	( 4	449414.5,
3758777.6,	188.9,	188.9,	0.0);			
( 449418.3	3, 3758777.6	5, 188.8,	188.8,	0.0);	( 4	149422.2,
3/58///.6,	188.6, 1 3758777 <i>4</i>	188.6,	0.0); 188 5	0 0).	(	110120 0
3758777.6.	188.4.	188.4.	0.0):	0.0),	( -	++)+2),),
( 449433.8	3758777.6	5, 188.2,	188.2,	0.0);	( 4	149437.7,
3758777.6,	188.1,	188.1,	0.0);	, -	•	-
( 449441.5	5, 3758777.6	5, 188.0,	188.0,	0.0);	( 4	49445.4,
3758777.6,	188.0,	188.0,	0.0);		,	
( 449368.6	0, 3/58/91.0 102 2	192.6,	192.6,	0.0);	( 2	4493/1.9,
( 449375.8	192.5, 8. 3758791.6	195.0, 5. 191.9.	195.0.	0,0):	( ]	149379.6.
3758791.6,	191.5,	195.0,	0.0);	0.0),	( -	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
( 449383.5	5, 3758791.6	5, 191.2,	195.0,	0.0);	( 4	449387.4,
3758791.6,	191.0,	191.0,	0.0);	·		
( 449391.2	2, 3758791.6	5, 190.7,	190.7,	0.0);	( 4	449395.1,
3758791.6,	190.5,	190.5,	0.0);	0.0).		40402 0
( 449399.6	1, 3/58/91.t 100 0	190.2,	190.2,	0.0);	( 2	149402.8,
( 449406.7	7. 3758791.6	190.0, 189.7.	189.7.	0.0):	( 4	49410.6.
3758791.6,	189.5,	189.5,	0.0);	,	`	
( 449414.	5, 3758791.6	5, 189.3,	189.3,	0.0);	( 4	449418.3,
3758791.6,	189.2,	189.2,	0.0);			
( 449422.2	2, 3758791.6	5, 189.1,	189.1,	0.0);	( 4	49426.1,
3/58/91.6,	189.0, 2759701 0	189.0,	0.0);	0 0).	( )	110122 0
3758791.6.	188.7.	188.7.	100.0, 0.0):	0.0),	( -	+49455.0,
( 449437.7	7, 3758791.6	188.6,	188.6,	0.0);	( 4	49441.5,
3758791.6,	188.5,	188.5,	0.0);	,,,	•	
( 449445.4	4, 3758791.6	5, 188.4,	188.4,	0.0);	( 4	449368.0,
3758805.6,	192.8,	192.8,	0.0);		,	
( 4493/1.9	9, 3/58805.6 102 2	), 192.5,	192.5,	0.0);	( 2	449375.8,
( 449379.6	19272, 5. 3758805.6	192.2, 5. 192.0.	192.0.	0,0):	( ]	149383.5.
3758805.6,	191.7,	191.7,	0.0);	0.0);	`	
( 449387.4	4, 3758805.6	5, 191.5,	191.5,	0.0);	( 4	449391.2,
3758805.6,	191.2,	191.2,	0.0);			
( 449395.2	1, 3758805.6	5, 190.9,	190.9,	0.0);	( 4	49399.0,
3758805.6,	190.7,	190.7,	0.0);	0 0).		110106 7
( 449402.8 3758805 6	5, 5/58805.0 190 2	, 190.4, 190.2	190.4, 0 0)·	0.0);	( 2	+49400./,
( 449410.6	5, 3758805.6	189.9.	189.9.	0.0);	( 4	49414.5.
3758805.6,	189.8,	189.8,	0.0);		•	· - <b>)</b>

(449418.3, 3758805.6, 189.7, 189.7, 0.0); (449422.2, 189.6, 3758805.6, 189.6, 0.0); 189.4, (449426.1, 3758805.6, 189.4, 0.0); (449429.9, 189.3, 0.0); 3758805.6, 189.3, 189.2, 189.2, (449433.8, 3758805.6, 0.0); (449437.7)3758805.6, 189.0, 189.0, 0.0); (449441.5, 3758805.6, 188.9, 0.0);(449445.4)188.9, 188.8, 0.0); 3758805.6, 188.8, 192.8, (449368.0, 3758819.7, 192.8, 0.0); (449371.9, 192.5, 0.0); 3758819.7, 192.5, 192.2, (449375.8, 3758819.7, 192.2, 0.0); (449379.6,192.0, 3758819.7, 192.0, 0.0); 191.7, (449383.5, 3758819.7, 191.7, 0.0); (449387.4)191.5, 3758819.7, 191.5, 0.0); ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 \*\*\* HRA\TOGGAS\TOGGAS.ISC 11/11/21 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* \*\*\* 11:24:07

PAGE 6 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

(	( 449391.2	2, 3758819.7	7, 191.2,	191.2,	0.0);	( 449395.1,
375881	19.7,	191.0,	191.0,	0.0);		
(	( 449399.0	ð, 3758819.	7, 190.7,	190.7,	0.0);	( 449402.8,
375881	19.7,	190.4,	190.4,	0.0);		
(	( 449406.7	7, 3758819.3	7, 190.2,	190.2,	0.0);	( 449410.6,
375881	19.7,	190.0,	190.0,	0.0);		
(	( 449414.5	5, 3758819.3	7, 189.8,	189.8,	0.0);	( 449418.3,
375881	19.7,	189.7,	189.7,	0.0);		
(	( 449422.2	2, 3758819.3	7, 189.6,	189.6,	0.0);	( 449426.1,
375881	19.7,	189.5,	189.5,	0.0);		
(	( 449429.9	9, 3758819.	7, 189.3,	189.3,	0.0);	( 449433.8,
375881	19.7,	189.2,	189.2,	0.0);		
(	( 449437.7	7, 3758819.3	7, 189.1,	189.1,	0.0);	( 449441.5,
375881	19.7,	188.9,	188.9,	0.0);		
(	( 449445.4	4, 3758819.3	7, 188.8,	188.8,	0.0);	( 449368.0,
375883	33.7,	192.8,	192.8,	0.0);		
(	( 449371.9	9, 3758833.	7, 192.5,	192.5,	0.0);	( 449375.8,
375883	33.7,	192.2,	192.2,	0.0);	>	
(	( 449379.6	5, 3758833.	7, 192.0,	192.0,	0.0);	( 449383.5,
375883	33.7,	191.7,	191.7,	0.0);		
(	( 449387.4	4, 3758833.	7, 191.5,	191.5,	0.0);	( 449391.2,
375883	33.7,	191.2,	191.2,	0.0);		
(	( 449395.2	1, 3758833.	7, 191.0,	191.0,	0.0);	( 449399.0,
375883	33.7,	190.7,	190.7,	0.0);		

(449402.8, 3758833.7, 190.4,	190.4,	0.0);	( 449406.7,
( 449410.6, 3758833.7, 190.2, 190.2, 190.0,	0.0); 190.0,	0.0);	( 449414.5,
3758833.7, 189.8, 189.8,	0.0);		
(449418.3, 3758833.7, 189.7,	189.7,	0.0);	( 449422.2,
<i>3/58833./, 189.6, 189.6,</i> <i>( 449426 1 3758833 7 189 5</i>	0.0); 189 5	9 9).	( 449429 9
3758833.7, 189.3, 189.3,	0.0);	0.075	( ++)+2).),
(449433.8, 3758833.7, 189.2,	189.2,	0.0);	( 449437.7,
3758833.7, 189.1, 189.1,	0.0);	0.0	(
(449441.5, 3/58833./, 188.9, 2758823 7 188 8 188 8	188.9,	0.0);	( 449445.4,
(449368.0, 3758847.8, 193.4,	193.4.	0.0):	( 449371.9.
3758847.8, 193.2, 193.2,	0.0);	,,	(
(449375.8, 3758847.8, 193.0,	193.0,	0.0);	( 449379.6,
3758847.8, 192.8, 192.8,	0.0);		<i></i>
(449383.5, 3758847.8, 192.5,	192.5,	0.0);	(449387.4,
3/5884/.8, 192.2, 192.2, ( //0301 2 37588/7 8 102 0	0.0); 192 0	0 0).	( 119395 1
3758847.8. 191.7. 191.7.	0.0):	0.0),	( 449595.1,
(449399.0, 3758847.8, 191.5,	191.5,	0.0);	( 449402.8,
3758847.8, 191.2, 191.2,	0.0);		•
(449406.7, 3758847.8, 191.0,	191.0,	0.0);	( 449410.6,
3758847.8, 190.7, 190.7,	0.0);	0.0)	( 440.410 2
(449414.5, 3/5884/.8, 190.5, 2758847 8 100 4 100 4	190.5,	0.0);	( 449418.3,
( 449422.2, 3758847.8, 190.2,	190.2.	0.0):	( 449426.1.
3758847.8, 190.0, 190.0,	0.0);	,,	(
(449429.9, 3758847.8, 189.8,	189.8,	0.0);	( 449433.8,
3758847.8, 189.6, 189.6,	0.0);		
(449437.7, 3758847.8, 189.5,	189.5,	0.0);	( 449441.5,
3/5884/.8, 189.3, 189.3, ( AADAAE A 27599A7 9 190.2	0.0);	0 0).	( 110369 0
3758861.8. 194.1. 194.1.	0.0):	0.0),	( 449508.0,
(449371.9, 3758861.8, 194.0,	194.0,	0.0);	( 449375.8,
3758861.8, 193.8, 193.8,	0.0);		
(449379.6, 3758861.8, 193.7,	193.7,	0.0);	( 449383.5,
3758861.8, 193.4, 193.4,	0.0);	0.0).	( 440201 2
(449387.4, 3758861.8, 193.2, 3758861.8, 193.2, 193.2)	193.2,	0.0);	( 449391.2,
(449395.1, 3758861.8, 192.7,	192.7.	0.0):	( 449399.0.
3758861.8, 192.4, 192.4,	0.0);		
( 449402.8, 3758861.8, 192.1,	192.1,	0.0);	( 449406.7,
3758861.8, 191.9, 191.9,	0.0);	>	
(449410.6, 3758861.8, 191.6,	191.6,	0.0);	( 449414.5,
Σ/ΣοδοΙ.δ,         ΙΥΙ.4,         ΙΥΙ.4,           ( ΔΔ9Δ18 3 3758861 8         101 2	(0.0); 191 ک	9 9).	( 449422 2
3758861.8, 190.9. 190.9.	0.0);	0.0/3	\ <del>++</del> /+22•2,
( 449426.1, 3758861.8, 190.7,	190.7,	0.0);	( 449429.9,
3758861.8, 190.4, 190.4,	0.0);		-

( 449433	.8, 3758861	8,	190.2,	190.2,	0.0);	(44	49437.7,
3758861.8,	190.0,	190.0,		0.0);			
( 449441.	.5, 3758861	8,	189.8,	189.8,	0.0);	(44	49445.4,
3758861.8,	189.7,	189.7,		0.0);			
( 449368	.0, 3758875	.8,	194.7,	194.7,	0.0);	(44	49371.9,
3758875.8,	194.6,	194.6,		0.0);			
( 449375	.8, 3758875	.8,	194.4,	194.4,	0.0);	(44	49379.6,
3758875.8,	194.3,	194.3,		0.0);			
( 449383	.5, 3758875	.8,	194.1,	194.1,	0.0);	(44	49387.4,
3758875.8,	193.8,	193.8,		0.0);			
( 449391.	.2, 3758875	.8,	193.5,	193.5,	0.0);	(44	49395.1,
3758875.8,	193.3,	193.3,		0.0);			
( 449399.	.0, 3758875	.8,	193.0,	193.0,	0.0);	(44	49402.8,
3758875.8,	192.8,	192.8,		0.0);			
( 449406	.7, 3758875	.8,	192.5,	192.5,	0.0);	(44	49410.6,
3758875.8,	192.2,	192.2,		0.0);			
★ *** AERMOD	- VERSION	19191 **	* **	* C:\LAKES\AE	RMOD VIEW\14172		
HRA\TOGGAS\TO	GGAS.ISC			***	11/11/21		
*** AERMET -	VERSION 1	.6216 ***	***				
		***	11:2	24:07			

11:24:07

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

> \*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\* (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)

(METERS)

( 449414	4.5, 3758875.	8, 192.0,	192.0,	0.0);	( 449418.3,
3758875.8,	191.7,	191.7,	0.0);		
( 44942)	2.2, 3758875.	8, 191.5,	191.5,	0.0);	( 449426.1,
3758875.8,	191.2,	191.2,	0.0);		
( 44942	9.9, 3758875.	8, 191.0,	191.0,	0.0);	( 449433.8,
3758875.8,	190.7,	190.7,	0.0);		
( 44943)	7.7, 3758875.	8, 190.4,	190.4,	0.0);	( 449441.5,
3758875.8,	190.2,	190.2,	0.0);		
( 44944	5.4, 3758875.	8, 190.1,	190.1,	0.0);	( 449368.0,
3758889.9,	195.2,	195.2,	0.0);		
( 44937:	1.9, 3758889.	9, 195.0,	195.0,	0.0);	( 449375.8,
3758889.9,	194.9,	194.9,	0.0);		
( 449379	9.6, 3758889.	9, 194.8,	194.8,	0.0);	( 449383.5,
3758889.9,	194.5,	194.5,	0.0);		
( 44938)	7.4, 3758889.	9, 194.3,	194.3,	0.0);	( 449391.2,
3758889.9,	194.0,	194.0,	0.0);		
( 44939)	5.1, 3758889.	9, 193.7,	193.7,	0.0);	( 449399.0,
3758889.9,	193.5,	193.5,	0.0);		
( 44940)	2.8, 3758889.	9, 193.2,	193.2,	0.0);	( 449406.7,
3758889.9,	193.0,	193.0,	0.0);		
( 44941)	0.6, 3758889.	9, 192.7,	192.7,	0.0);	( 449414.5,
3758889.9,	192.5,	192.5,	0.0);		

(449418.3, 3758889.9,	192.2, 192.2	2, 0.0);	( 449422.2,
3758889.9, 191.9, 191.9,	0.0);		
(449426.1, 3758889.9,	191.7, 191.	7, 0.0);	( 449429.9,
3758889.9, 191.4, 191.4,	0.0);		<i></i>
(449433.8, 3758889.9,	191.2, 191.2	2, 0.0);	( 449437.7,
3/58889.9, 190.9, 190.9,	0.0);		
(449441.5, 3758889.9,	190./, 190.	/, 0.0);	( 449445.4,
3/58889.9, 190.6, 190.6,	0.0); 105 9 105 1		( 440271 0
(449308.0, 3758903.9,	195.8, 195.8	3, 0.0);	( 4493/1.9,
( 1/10375 & 3758003 Q	0.0), 1956 1950	5 9 9).	( 119379 6
3758903 9 195 5 195 5	0 0)·	, 0.0/,	( ++))/).0,
(449383.5, 3758903.9,	195.2. 195.3	2. 0.0):	( 449387.4.
3758903.9. 195.0. 195.0.	0.0):		
(449391.2, 3758903.9,	194.7, 194.	7, 0.0);	( 449395.1,
3758903.9, 194.5, 194.5,	0.0);	, ,,	
(449399.0, 3758903.9,	194.2, 194.2	2, 0.0);	( 449402.8,
3758903.9, 194.0, 194.0,	0.0);		·
( 449406.7, 3758903.9,	193.7, 193.	7, 0.0);	( 449410.6,
3758903.9, 193.4, 193.4,	0.0);		
(449414.5, 3758903.9,	193.1, 193.1	L, 0.0);	( 449418.3,
3758903.9, 192.8, 192.8,	0.0);		
(449422.2, 3758903.9,	192.6, 192.0	5, 0.0);	( 449426.1,
3758903.9, 192.3, 192.3,	0.0);		(
( 449429.9, 3/58903.9, )	192.0. 192.0	1. 0.0):	
		e.e/,	( 449455.8,
3758903.9, 191.7, 195.0,	0.0);		( 449455.8,
3758903.9, 191.7, 195.0, (449437.7, 3758903.9, 2758002.0, 101.2, 101.2)	0.0); 191.4, 195.0	, 0.0);	( 449441.5,
3758903.9, 191.7, 195.0, (449437.7, 3758903.9, 3758903.9, 191.2, 191.2, (449445.4) 3758903.9	0.0); 191.4, 195.( 0.0);	), 0.0);	( 449441.5, ( 449441.5,
3758903.9, 191.7, 195.0, (449437.7, 3758903.9, 3758903.9, 191.2, 191.2, (449445.4, 3758903.9, 3758918.0, 196.6, 196.6	0.0); 191.4, 195.( 0.0); 191.1, 191.3	), 0.0); 1, 0.0);	( 4494435.8, ( 449441.5, ( 449368.0,
3758903.9, 191.7, 195.0, (449437.7, 3758903.9, 3758903.9, 191.2, 191.2, (449445.4, 3758903.9, 3758918.0, 196.6, 196.6, (449371.9, 3758918.0,	0.0); 191.4, 195.0 0.0); 191.1, 191.1 0.0); 196.5, 196.5	0, 0.0); 1, 0.0);	( 449441.5, ( 449368.0, ( 449375.8)
3758903.9, 191.7, 195.0, (449437.7, 3758903.9, 3758903.9, 191.2, 191.2, (449445.4, 3758903.9, 3758918.0, 196.6, 196.6, (449371.9, 3758918.0, 3758918.0, 196.5, 196.5,	0.0); 191.4, 195.0 0.0); 191.1, 191.3 0.0); 196.5, 196.5	0,       0.0);         1,       0.0);         5,       0.0);	( 449441.5, ( 449368.0, ( 449375.8,
3758903.9, 191.7, 195.0, (449437.7, 3758903.9, 3758903.9, 191.2, 191.2, (449445.4, 3758903.9, 3758918.0, 196.6, 196.6, (449371.9, 3758918.0, 3758918.0, 196.5, 196.5, (449379.6, 3758918.0,	0.0); 191.4, 195.( 0.0); 191.1, 191.: 0.0); 196.5, 196.! 0.0); 196.4. 196.4	0,       0.0);         1,       0.0);         5,       0.0);         4.       0.0);	( 449441.5, ( 449368.0, ( 449375.8, ( 449383.5,
3758903.9, 191.7, 195.0, (449437.7, 3758903.9, 3758903.9, 191.2, 191.2, (449445.4, 3758903.9, 3758918.0, 196.6, 196.6, (449371.9, 3758918.0, 3758918.0, 196.5, 196.5, (449379.6, 3758918.0, 3758918.0, 196.2, 196.2,	0.0); 191.4, 195.0 0.0); 191.1, 191.3 0.0); 196.5, 196.3 0.0); 196.4, 196.4	0,       0.0);         1,       0.0);         5,       0.0);         4,       0.0);	<pre>( 449433.8, ( 449441.5, ( 449368.0, ( 449375.8, ( 449383.5,</pre>
3758903.9, 191.7, 195.0, (449437.7, 3758903.9, 3758903.9, 191.2, 191.2, (449445.4, 3758903.9, 3758918.0, 196.6, 196.6, (449371.9, 3758918.0, 3758918.0, 196.5, 196.5, (449379.6, 3758918.0, 3758918.0, 196.2, 196.2, (449387.4, 3758918.0,	0.0); 191.4, 195.0 0.0); 191.1, 191.3 0.0); 196.5, 196.9 0.0); 196.4, 196.4 0.0); 195.9, 195.9	0,       0.0);         1,       0.0);         5,       0.0);         4,       0.0);         0,       0.0);	<pre>( 449433.8, ( 449441.5, ( 449368.0, ( 449375.8, ( 449383.5, ( 449391.2,</pre>
3758903.9, 191.7, 195.0, (449437.7, 3758903.9, 3758903.9, 191.2, 191.2, (449445.4, 3758903.9, 3758918.0, 196.6, 196.6, (449371.9, 3758918.0, 3758918.0, 196.5, 196.5, (449379.6, 3758918.0, 3758918.0, 196.2, 196.2, (449387.4, 3758918.0, 3758918.0, 195.7, 195.7,	0.0); 191.4, 195.0 0.0); 191.1, 191.3 0.0); 196.5, 196.4 0.0); 196.4, 196.4 0.0); 195.9, 195.9	0,       0.0);         1,       0.0);         5,       0.0);         4,       0.0);         0,       0.0);	<pre>( 449433.8, ( 449441.5, ( 449368.0, ( 449375.8, ( 449383.5, ( 449391.2,</pre>
<pre>3758903.9, 191.7, 195.0, (449437.7, 3758903.9, 3758903.9, 191.2, 191.2, (449445.4, 3758903.9, 3758918.0, 196.6, 196.6, (449371.9, 3758918.0, 3758918.0, 196.5, 196.5, (449379.6, 3758918.0, 3758918.0, 196.2, 196.2, (449387.4, 3758918.0, 3758918.0, 195.7, 195.7, (449395.1, 3758918.0,</pre>	0.0); 191.4, 195.0 0.0); 191.1, 191.3 0.0); 196.5, 196.3 0.0); 196.4, 196.4 0.0); 195.9, 195.9 0.0); 195.4, 195.4	2,       0.0);         1,       0.0);         5,       0.0);         4,       0.0);         9,       0.0);         1,       0.0);         1,       0.0);         1,       0.0);         1,       0.0);         1,       0.0);         1,       0.0);	<pre>( 449433.8, ( 449441.5, ( 449368.0, ( 449375.8, ( 449383.5, ( 449391.2, ( 449399.0,</pre>
<pre>3758903.9, 191.7, 195.0, (449437.7, 3758903.9, 3758903.9, 191.2, 191.2, (449445.4, 3758903.9, 3758918.0, 196.6, 196.6, (449371.9, 3758918.0, 3758918.0, 196.5, 196.5, (449379.6, 3758918.0, 3758918.0, 196.2, 196.2, (449387.4, 3758918.0, 3758918.0, 195.7, 195.7, (449395.1, 3758918.0, 3758918.0, 195.1, 195.1,</pre>	0.0); 191.4, 195.0 0.0); 191.1, 191.3 0.0); 196.5, 196.3 0.0); 196.4, 196.4 0.0); 195.9, 195.9 0.0); 195.4, 195.4	0,       0.0);         1,       0.0);         5,       0.0);         4,       0.0);         9,       0.0);         4,       0.0);         4,       0.0);	<pre>( 449433.8, ( 449441.5, ( 449368.0, ( 449375.8, ( 449383.5, ( 449391.2, ( 449399.0,</pre>
<pre>3758903.9, 191.7, 195.0, (449437.7, 3758903.9, 3758903.9, 191.2, 191.2, (449445.4, 3758903.9, 3758918.0, 196.6, 196.6, (449371.9, 3758918.0, 3758918.0, 196.5, 196.5, (449379.6, 3758918.0, 3758918.0, 196.2, 196.2, (449387.4, 3758918.0, 3758918.0, 195.7, 195.7, (449395.1, 3758918.0, 3758918.0, 195.1, 195.1, (449402.8, 3758918.0,</pre>	0.0); 191.4, 195.0 0.0); 191.1, 191.3 0.0); 196.5, 196.4 0.0); 196.4, 196.4 0.0); 195.9, 195.9 0.0); 195.4, 195.4 0.0); 195.4, 195.4	2),       0.0);         2),       0.0);         1,       0.0);         5,       0.0);         4,       0.0);         9,       0.0);         4,       0.0);         4,       0.0);         4,       0.0);         4,       0.0);         4,       0.0);	<pre>( 449433.8, ( 449441.5, ( 449368.0, ( 449375.8, ( 449383.5, ( 449391.2, ( 449399.0, ( 449406.7,</pre>
<pre>3758903.9, 191.7, 195.0, (449437.7, 3758903.9, 3758903.9, 191.2, 191.2, (449445.4, 3758903.9, 3758918.0, 196.6, 196.6, (449371.9, 3758918.0, 3758918.0, 196.5, 196.5, (449379.6, 3758918.0, 3758918.0, 196.2, 196.2, (449387.4, 3758918.0, 3758918.0, 195.7, 195.7, (449395.1, 3758918.0, 3758918.0, 195.1, 195.1, (449402.8, 3758918.0, 3758918.0, 194.6, 194.6,</pre>	0.0); 191.4, 195.0 0.0); 191.1, 191.3 0.0); 196.5, 196.4 0.0); 196.4, 196.4 0.0); 195.9, 195.9 0.0); 195.4, 195.4 0.0); 194.9, 194.9 0.0);	2),       0.0);         1,       0.0);         5,       0.0);         4,       0.0);         9,       0.0);         1,       0.0);         9,       0.0);         1,       0.0);         0,       0.0);         1,       0.0);         1,       0.0);         1,       0.0);	<pre>( 449433.8, ( 449441.5, ( 449368.0, ( 449375.8, ( 449383.5, ( 449391.2, ( 449399.0, ( 449406.7,</pre>
<pre>3758903.9, 191.7, 195.0, (449437.7, 3758903.9, 3758903.9, 191.2, 191.2, (449445.4, 3758903.9, 3758918.0, 196.6, 196.6, (449371.9, 3758918.0, 3758918.0, 196.5, 196.5, (449379.6, 3758918.0, 3758918.0, 196.2, 196.2, (449387.4, 3758918.0, 3758918.0, 195.7, 195.7, (449395.1, 3758918.0, 3758918.0, 195.1, 195.1, (449402.8, 3758918.0, 3758918.0, 194.6, 194.6, (449410.6, 3758918.0,</pre>	0.0); 191.4, 195.0 0.0); 191.1, 191.3 0.0); 196.5, 196.3 0.0); 196.4, 196.4 0.0); 195.9, 195.9 0.0); 195.4, 195.4 0.0); 194.9, 194.9 0.0); 194.3, 194.3	2),       0.0);         2),       0.0);         1,       0.0);         5,       0.0);         4,       0.0);         9,       0.0);         4,       0.0);         6,       0.0);         6,       0.0);         9,       0.0);         9,       0.0);         9,       0.0);	<pre>( 449433.8, ( 449441.5, ( 449368.0, ( 449375.8, ( 449383.5, ( 449391.2, ( 449399.0, ( 449406.7, ( 449414.5,</pre>
<pre>3758903.9, 191.7, 195.0, (449437.7, 3758903.9, 3758903.9, 191.2, 191.2, (449445.4, 3758903.9, 3758918.0, 196.6, 196.6, (449371.9, 3758918.0, 3758918.0, 196.5, 196.5, (449379.6, 3758918.0, 3758918.0, 196.2, 196.2, (449387.4, 3758918.0, 3758918.0, 195.7, 195.7, (449395.1, 3758918.0, 3758918.0, 195.1, 195.1, (449402.8, 3758918.0, 3758918.0, 194.6, 194.6, (449410.6, 3758918.0, 3758918.0, 194.6, 195.0,</pre>	0.0); 191.4, 195.0 0.0); 191.1, 191.3 0.0); 196.5, 196.4 0.0); 196.4, 196.4 0.0); 195.9, 195.4 0.0); 195.4, 195.4 0.0); 194.9, 194.3 0.0); 194.3, 194.3	2),       0.0);         2),       0.0);         1,       0.0);         5,       0.0);         4,       0.0);         9,       0.0);         4,       0.0);         4,       0.0);         5,       0.0);         6,       0.0);         7,       0.0);         8,       0.0);	<pre>( 449433.8, ( 449441.5, ( 449368.0, ( 449375.8, ( 449383.5, ( 449391.2, ( 449399.0, ( 449406.7, ( 449414.5,</pre>
<pre>3758903.9, 191.7, 195.0, (449437.7, 3758903.9, 3758903.9, 191.2, 191.2, (449445.4, 3758903.9, 3758918.0, 196.6, 196.6, (449371.9, 3758918.0, 3758918.0, 196.5, 196.5, (449379.6, 3758918.0, 3758918.0, 196.2, 196.2, (449387.4, 3758918.0, 3758918.0, 195.7, 195.7, (449395.1, 3758918.0, 3758918.0, 195.1, 195.1, (449402.8, 3758918.0, 3758918.0, 194.6, 194.6, (449410.6, 3758918.0, 3758918.0, 194.0, 195.0, (449418.3, 3758918.0,</pre>	0.0); 191.4, 195.0 0.0); 191.1, 191.3 0.0); 196.5, 196.4 0.0); 196.4, 196.4 0.0); 195.9, 195.9 195.4, 195.4 0.0); 194.9, 194.9 0.0); 194.3, 194.3 0.0); 193.6, 195.0	2),       0.0);         2),       0.0);         1,       0.0);         5,       0.0);         4,       0.0);         4,       0.0);         4,       0.0);         3,       0.0);         3,       0.0);         0,       0.0);	<pre>( 449433.8, ( 449441.5, ( 449368.0, ( 449375.8, ( 449383.5, ( 449391.2, ( 449399.0, ( 449406.7, ( 449414.5, ( 449422.2,</pre>
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3758903.9, 191.7, 195.0, (449437.7, 3758903.9, 3758903.9, 191.2, 191.2, (449445.4, 3758903.9, 3758918.0, 196.6, 196.6, (449371.9, 3758918.0, 3758918.0, 196.5, 196.5, (449379.6, 3758918.0, 3758918.0, 196.2, 196.2, (449387.4, 3758918.0, 3758918.0, 195.7, 195.7, (449395.1, 3758918.0, 3758918.0, 195.1, 195.1, (449402.8, 3758918.0, 3758918.0, 194.6, 194.6, (449410.6, 3758918.0, 3758918.0, 194.6, 195.0, (449418.3, 3758918.0, 3758918.0, 193.3, 195.0, (449426.1, 3758918.0, 3758918.0, 193.3, 195.0,	0.0); 191.4, 195.0 0.0); 191.1, 191.3 0.0); 196.5, 196.3 0.0); 196.4, 196.4 0.0); 195.9, 195.4 0.0); 195.4, 195.4 0.0); 194.3, 194.3 0.0); 194.3, 194.3 0.0); 193.6, 195.0 0.0); 192.9, 195.0	2),       0.0);         2),       0.0);         1,       0.0);         5,       0.0);         4,       0.0);         4,       0.0);         4,       0.0);         4,       0.0);         3,       0.0);         3,       0.0);         3,       0.0);         3,       0.0);         3,       0.0);	<pre>( 449433.8, ( 449441.5, ( 449368.0, ( 449375.8, ( 449383.5, ( 449391.2, ( 449399.0, ( 449406.7, ( 449414.5, ( 449422.2, ( 449429.9,</pre>
<pre>3758903.9, 191.7, 195.0, (449437.7, 3758903.9, 3758903.9, 191.2, 191.2, (449445.4, 3758903.9, 3758918.0, 196.6, 196.6, (449371.9, 3758918.0, 3758918.0, 196.5, 196.5, (449379.6, 3758918.0, 3758918.0, 196.2, 196.2, (449387.4, 3758918.0, 3758918.0, 195.7, 195.7, (449395.1, 3758918.0, 3758918.0, 195.1, 195.1, (449402.8, 3758918.0, 3758918.0, 194.6, 194.6, (449410.6, 3758918.0, 3758918.0, 194.0, 195.0, (449418.3, 3758918.0, 3758918.0, 193.3, 195.0, (449426.1, 3758918.0, 3758918.0, 192.6, 195.0,</pre>	0.0); 191.4, 195.0 0.0); 191.1, 191.3 0.0); 196.5, 196.3 0.0); 196.4, 196.4 0.0); 195.9, 195.4 0.0); 195.4, 195.4 0.0); 194.9, 194.3 0.0); 194.3, 194.3 0.0); 193.6, 195.0 0.0); 192.9, 195.0 0.0); 192.9, 195.0 0.0); 192.9, 195.0 0.0); 192.9, 195.0 0.0); 192.9, 195.0 0.0); 192.9, 195.0 0.0); 192.9, 195.0 0.0);	2)       0.0);         2)       0.0);         1,       0.0);         5,       0.0);         4,       0.0);         4,       0.0);         4,       0.0);         4,       0.0);         6,       0.0);         8,       0.0);         9,       0.0);         9,       0.0);         9,       0.0);         9,       0.0);         9,       0.0);         9,       0.0);	<pre>( 449433.8, ( 449441.5, ( 449368.0, ( 449375.8, ( 449383.5, ( 449391.2, ( 449399.0, ( 449406.7, ( 449406.7, ( 449414.5, ( 449422.2, ( 449429.9, ( 449427.7</pre>
3758903.9, 191.7, 195.0, (449437.7, 3758903.9, 3758903.9, 191.2, 191.2, (449445.4, 3758903.9, 3758918.0, 196.6, 196.6, (449371.9, 3758918.0, 3758918.0, 196.5, 196.5, (449379.6, 3758918.0, 3758918.0, 196.2, 196.2, (449387.4, 3758918.0, 3758918.0, 195.7, 195.7, (449395.1, 3758918.0, 3758918.0, 195.1, 195.1, (449402.8, 3758918.0, 3758918.0, 194.6, 194.6, (449410.6, 3758918.0, 3758918.0, 194.0, 195.0, (449418.3, 3758918.0, 3758918.0, 193.3, 195.0, (449426.1, 3758918.0, 3758918.0, 192.6, 195.0, (449433.8, 3758918.0, 3758918.0, 191.9, 195.0,	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0,       0.0);         1,       0.0);         5,       0.0);         4,       0.0);         9,       0.0);         4,       0.0);         9,       0.0);         9,       0.0);         9,       0.0);         9,       0.0);         9,       0.0);         9,       0.0);         9,       0.0);         9,       0.0);         9,       0.0);         9,       0.0);	<pre>( 449433.8, ( 449441.5, ( 449368.0, ( 449375.8, ( 449383.5, ( 449391.2, ( 449399.0, ( 449406.7, ( 449406.7, ( 449414.5, ( 449422.2, ( 449429.9, ( 449437.7,</pre>
<pre>3758903.9, 191.7, 195.0, (449437.7, 3758903.9, 3758903.9, 191.2, 191.2, (449445.4, 3758903.9, 3758918.0, 196.6, 196.6, (449371.9, 3758918.0, 3758918.0, 196.5, 196.5, (449379.6, 3758918.0, 3758918.0, 196.2, 196.2, (449387.4, 3758918.0, 3758918.0, 195.7, 195.7, (449395.1, 3758918.0, 3758918.0, 195.1, 195.1, (449402.8, 3758918.0, 3758918.0, 194.6, 194.6, (449410.6, 3758918.0, 3758918.0, 194.6, 195.0, (449418.3, 3758918.0, 3758918.0, 193.3, 195.0, (449426.1, 3758918.0, 3758918.0, 192.6, 195.0, (449433.8, 3758918.0, 3758918.0, 191.9, 195.0, (449441.5, 3758918.0,</pre>	0.0); 191.4, 195.0 0.0); 191.1, 191.3 0.0); 196.5, 196.3 0.0); 196.4, 196.4 0.0); 195.9, 195.4 0.0); 195.4, 195.4 0.0); 194.3, 194.3 0.0); 194.3, 194.3 0.0); 193.6, 195.0 0.0); 192.9, 195.0 0.0); 192.2, 195.0 0.0); 192.2, 195.0 0.0); 192.2, 195.0 0.0);	2),       0.0);         2),       0.0);         1,       0.0);         5,       0.0);         4,       0.0);         4,       0.0);         4,       0.0);         4,       0.0);         4,       0.0);         5,       0.0);         6,       0.0);         6,       0.0);         6,       0.0);         6,       0.0);         6,       0.0);         6,       0.0);	<pre>( 449435.8, ( 449441.5, ( 449368.0, ( 449375.8, ( 449383.5, ( 449399.0, ( 449399.0, ( 449406.7, ( 449406.7, ( 449414.5, ( 449414.5, ( 449422.2, ( 449429.9, ( 449437.7, ( 449445.4)</pre>
<pre>3758903.9, 191.7, 195.0, (449437.7, 3758903.9, 3758903.9, 191.2, 191.2, (449445.4, 3758903.9, 3758918.0, 196.6, 196.6, (449371.9, 3758918.0, 3758918.0, 196.5, 196.5, (449379.6, 3758918.0, 3758918.0, 196.2, 196.2, (449387.4, 3758918.0, 3758918.0, 195.7, 195.7, (449395.1, 3758918.0, 3758918.0, 195.1, 195.1, (449402.8, 3758918.0, 3758918.0, 194.6, 194.6, (449410.6, 3758918.0, 3758918.0, 194.0, 195.0, (449418.3, 3758918.0, 3758918.0, 193.3, 195.0, (449426.1, 3758918.0, 3758918.0, 192.6, 195.0, (449433.8, 3758918.0, 3758918.0, 191.9, 195.0, (449441.5, 3758918.0, 3758918.0, 191.5, 191.5</pre>	0.0); 191.4, 195.0 0.0); 191.1, 191.3 0.0); 196.5, 196.3 0.0); 196.4, 196.4 0.0); 195.9, 195.4 0.0); 195.4, 195.4 0.0); 194.9, 194.3 0.0); 194.3, 194.3 0.0); 193.6, 195.0 0.0); 192.9, 195.0 0.0); 192.2, 195.0 0.0); 191.7, 195.0 0.0);	2)       0.0);         2)       0.0);         1,       0.0);         5,       0.0);         4,       0.0);         4,       0.0);         4,       0.0);         4,       0.0);         6,       0.0);         8,       0.0);         9,       0.0);         9,       0.0);         9,       0.0);         9,       0.0);         9,       0.0);         9,       0.0);         9,       0.0);         9,       0.0);         9,       0.0);	<pre>( 449435.8, ( 449441.5, ( 449368.0, ( 449375.8, ( 449383.5, ( 449399.0, ( 449399.0, ( 449406.7, ( 449406.7, ( 449414.5, ( 449422.2, ( 449422.2, ( 449429.9, ( 449437.7, ( 449445.4,</pre>

( 449368.	0, 3758932	.0, 197.2	, 197.2,	0.0);	( 449371.9	,
3758932.0,	197.2,	197.2,	0.0);			
( 449375.	8, 3758932	.0, 197.2	, 197.2,	0.0);	( 449379.6	,
3758932.0,	197.2,	197.2,	0.0);			
( 449383.	5, 3758932	.0, 196.9	196.9,	0.0);	( 449387.4	,
3758932.0,	196.7,	196.7,	0.0);			
( 449391.	2, 3758932	.0, 196.4	196.4,	0.0);	( 449395.1	,
3758932.0,	196.2,	196.2,	0.0);			
( 449399.	.0, 3758932	.0, 195.9	195.9,	0.0);	( 449402.8	,
3758932.0,	195.6,	195.6,	0.0);			
( 449406.	7, 3758932	.0, 195.4	195.4,	0.0);	( 449410.6	,
3758932.0,	195.1,	195.1,	0.0);			
( 449414.	5, 3758932	.0, 194.7	194.7,	0.0);	( 449418.3	,
3758932.0,	194.3,	194.3,	0.0);			
( 449422.	2, 3758932	.0, 193.9	193.9,	0.0);	( 449426.1	ر
3758932.0,	193.5,	193.5,	0.0);			
( 449429.	.9, 3758932	.0, 193.1	193.1,	0.0);	( 449433.8	,
3758932.0,	192.8,	192.8,	0.0);			
★ *** AERMOD	- VERSION	19191 *** *	** C:\LAKES\AE	RMOD VIEW\14172		
HRA\TOGGAS\TOC	GAS.ISC		***	11/11/21		
*** AERMET -	VERSION 1	5216 *** ***	k			
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PAGE 8

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*

(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)

( M	FT	FR	5)	
(11		LIV.	,	

( 449437.	7, 3758932.	ð, 192.4,	192.4,	0.0);	( 449441.5,
3758932.0,	192.1,	192.1,	0.0);		
( 449445.	4, 3758932.0	ð, 192.0,	192.0,	0.0);	( 449368.0,
3758946.0,	197.7,	197.7,	0.0);		
( 449371.	9, 3758946.	ð, 197.7,	197.7,	0.0);	( 449375.8,
3758946.0,	197.7,	197.7,	0.0);		
( 449379.	6, 3758946.	ð, 197.7,	197.7,	0.0);	( 449383.5,
3758946.0,	197.4,	197.4,	0.0);		
( 449387.	4, 3758946.	ð, 197.1,	197.1,	0.0);	( 449391.2,
3758946.0,	196.9,	196.9,	0.0);		
( 449395.	1, 3758946.	ð, 196.6,	196.6,	0.0);	( 449399.0,
3758946.0,	196.4,	196.4,	0.0);		
( 449402.	8, 3758946.	ð, 196.1,	196.1,	0.0);	( 449406.7,
3758946.0,	195.8,	195.8,	0.0);		
( 449410.	6, 3758946.	ð, 195.5,	195.5,	0.0);	( 449414.5,
3758946.0,	195.2,	195.2,	0.0);		
( 449418.	3, 3758946.	ð, 194.8,	194.8,	0.0);	( 449422.2,
3758946.0,	194.4,	194.4,	0.0);		
( 449426.	1, 3758946.	ð, 194.0,	196.0,	0.0);	( 449429.9,
3758946.0,	193.6,	196.0,	0.0);		

( 449433.8, 37589	946.0, 193.2,	196.0,	0.0);	( 449437.7,
3758946.0, 192.8,	196.0,	0.0);	0 0).	
3758946.0. 192.3.	192.3.	190.0,	0.0),	( 449445.4,
(449368.0, 37589	960.1, 198.0,	198.0,	0.0);	( 449371.9,
3758960.1, 198.0,	198.0,	0.0);		
(449375.8, 37589	960.1, 198.0,	198.0,	0.0);	( 449379.6,
3/58960.1, 198.0,	198.0, 060 1 107 8	0.0); 107 g	0 0).	( 110387 1
3758960.1. 197.5.	197.5.	0.0):	0.0),	( 449507.4,
(449391.2, 37589	960.1, 197.3,	197.3,	0.0);	( 449395.1,
3758960.1, 197.0,	197.0,	0.0);		
(449399.0, 37589	960.1, 196.8,	196.8,	0.0);	( 449402.8,
3/58960.1, 196.5,	196.5, 060 1 106 3	0.0); 196 3	0 0).	( 110110 6
3758960.1. 196.0.	196.0.	0.0):	0.0),	( 449410.0,
( 449414.5, 37589	960.1, 195.6,	195.6,	0.0);	( 449418.3,
3758960.1, 195.2,	195.2,	0.0);		, <u> </u>
( 449422.2, 37589	960.1, 194.9,	194.9,	0.0);	( 449426.1,
3758960.1, 194.5,	194.5,	0.0);		( 440422 0
(449429.9, 3/58)	960.1, 194.1, 102 7	194.1,	0.0);	( 449433.8,
( 449437.7. 37589	960.1. 193.3.	193.3.	0.0):	( 449441.5.
3758960.1, 193.0,	193.0,	0.0);	0.073	(
( 449445.4, 37589	960.1, 192.7,	192.7,	0.0);	( 449368.0,
3758974.1, 198.0,	198.0,	0.0);		
3758974.1, 198.0, (449371.9, 37589	198.0, 974.1, 198.0,	0.0); 198.0,	0.0);	( 449375.8,
3758974.1, 198.0, ( 449371.9, 37589 3758974.1, 198.0, ( 449379 6 37589	198.0, 974.1, 198.0, 198.0, 974.1 198.0	0.0); 198.0, 0.0);	0.0);	( 449375.8, ( 449383 5
3758974.1, 198.0, (449371.9, 37589 3758974.1, 198.0, (449379.6, 37589 3758974.1, 197.8	198.0, 974.1, 198.0, 198.0, 974.1, 198.0, 197.8.	0.0); 198.0, 0.0); 198.0, 0.0):	0.0); 0.0);	( 449375.8, ( 449383.5,
3758974.1, 198.0, ( 449371.9, 37589 3758974.1, 198.0, ( 449379.6, 37589 3758974.1, 197.8, ( 449387.4, 37589	198.0, 974.1, 198.0, 974.1, 198.0, 974.1, 198.0, 197.8, 974.1, 197.6,	0.0); 198.0, 0.0); 198.0, 0.0); 197.6,	0.0); 0.0); 0.0);	( 449375.8, ( 449383.5, ( 449391.2,
3758974.1, 198.0, (449371.9, 37589 3758974.1, 198.0, (449379.6, 37589 3758974.1, 197.8, (449387.4, 37589 3758974.1, 197.5,	198.0, 974.1, 198.0, 974.1, 198.0, 974.1, 198.0, 197.8, 974.1, 197.6, 197.5,	0.0); 198.0, 0.0); 198.0, 0.0); 197.6, 0.0);	0.0); 0.0); 0.0);	( 449375.8, ( 449383.5, ( 449391.2,
3758974.1, 198.0, (449371.9, 37589 3758974.1, 198.0, (449379.6, 37589 3758974.1, 197.8, (449387.4, 37589 3758974.1, 197.5, (449395.1, 37589	198.0, 974.1, 198.0, 974.1, 198.0, 974.1, 198.0, 197.8, 974.1, 197.6, 197.5, 974.1, 197.3,	0.0); 198.0, 0.0); 198.0, 0.0); 197.6, 0.0); 197.3,	0.0); 0.0); 0.0); 0.0);	( 449375.8, ( 449383.5, ( 449391.2, ( 449399.0,
3758974.1, 198.0, (449371.9, 37589 3758974.1, 198.0, (449379.6, 37589 3758974.1, 197.8, (449387.4, 37589 3758974.1, 197.5, (449395.1, 37589 3758974.1, 197.1,	198.0, 974.1, 198.0, 974.1, 198.0, 974.1, 198.0, 197.8, 974.1, 197.6, 197.5, 974.1, 197.3, 197.1, 106.0	0.0); 198.0, 0.0); 198.0, 0.0); 197.6, 0.0); 197.3, 0.0);	0.0); 0.0); 0.0); 0.0);	<pre>( 449375.8, ( 449383.5, ( 449391.2, ( 449399.0,</pre>
3758974.1, 198.0, (449371.9, 37589 3758974.1, 198.0, (449379.6, 37589 3758974.1, 197.8, (449387.4, 37589 3758974.1, 197.5, (449395.1, 37589 3758974.1, 197.1, (449402.8, 37589 3758974.1 196.7	198.0, 974.1, 198.0, 974.1, 198.0, 974.1, 198.0, 974.1, 197.6, 197.5, 974.1, 197.3, 197.1, 974.1, 196.9, 196.7	0.0); 198.0, 0.0); 198.0, 0.0); 197.6, 0.0); 197.3, 0.0); 196.9, 0.0):	0.0); 0.0); 0.0); 0.0); 0.0);	<pre>( 449375.8, ( 449383.5, ( 449391.2, ( 449399.0, ( 449406.7,</pre>
3758974.1, 198.0, (449371.9, 37589 3758974.1, 198.0, (449379.6, 37589 3758974.1, 197.8, (449387.4, 37589 3758974.1, 197.5, (449395.1, 37589 3758974.1, 197.1, (449402.8, 37589 3758974.1, 196.7, (449410.6, 37589	198.0, 974.1, 198.0, 974.1, 198.0, 974.1, 198.0, 974.1, 197.6, 197.5, 974.1, 197.3, 197.1, 974.1, 196.9, 196.7, 974.1, 196.5.	0.0); 198.0, 0.0); 198.0, 0.0); 197.6, 0.0); 197.3, 0.0); 196.9, 0.0); 196.5.	0.0); 0.0); 0.0); 0.0); 0.0); 0.0);	<pre>( 449375.8, ( 449383.5, ( 449391.2, ( 449399.0, ( 449406.7, ( 449414.5.</pre>
3758974.1, 198.0, (449371.9, 37589 3758974.1, 198.0, (449379.6, 37589 3758974.1, 197.8, (449387.4, 37589 3758974.1, 197.5, (449395.1, 37589 3758974.1, 197.1, (449402.8, 37589 3758974.1, 196.7, (449410.6, 37589 3758974.1, 196.1,	198.0, 974.1, 198.0, 974.1, 198.0, 974.1, 198.0, 974.1, 197.6, 197.5, 974.1, 197.3, 197.1, 974.1, 196.9, 196.7, 974.1, 196.5, 196.1,	0.0); 198.0, 0.0); 198.0, 0.0); 197.6, 0.0); 197.3, 0.0); 196.9, 0.0); 196.5, 0.0);	0.0); 0.0); 0.0); 0.0); 0.0); 0.0);	<pre>( 449375.8, ( 449383.5, ( 449391.2, ( 449399.0, ( 449406.7, ( 449414.5,</pre>
3758974.1, 198.0, (449371.9, 37589 3758974.1, 198.0, (449379.6, 37589 3758974.1, 197.8, (449387.4, 37589 3758974.1, 197.5, (449395.1, 37589 3758974.1, 197.1, (449402.8, 37589 3758974.1, 196.7, (449410.6, 37589 3758974.1, 196.7, (449418.3, 37589	198.0, $974.1, 198.0,$ $974.1, 198.0,$ $974.1, 197.8,$ $974.1, 197.6,$ $197.5,$ $974.1, 197.3,$ $197.1,$ $974.1, 196.9,$ $196.7,$ $974.1, 196.5,$ $196.1,$ $974.1, 195.7,$	0.0); 198.0, 0.0); 198.0, 0.0); 197.6, 0.0); 197.3, 0.0); 196.9, 0.0); 196.5, 0.0); 195.7,	0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0);	<pre>( 449375.8, ( 449383.5, ( 449391.2, ( 449399.0, ( 449406.7, ( 449414.5, ( 449422.2,</pre>
3758974.1, 198.0, (449371.9, 3758) 3758974.1, 198.0, (449379.6, 3758) 3758974.1, 197.8, (449387.4, 3758) 3758974.1, 197.5, (449395.1, 3758) 3758974.1, 197.1, (449402.8, 3758) 3758974.1, 196.7, (449410.6, 3758) 3758974.1, 196.1, (449418.3, 3758) 3758974.1, 195.3,	198.0, $974.1, 198.0,$ $974.1, 198.0,$ $974.1, 197.8,$ $974.1, 197.6,$ $197.5,$ $974.1, 197.3,$ $197.1,$ $974.1, 196.9,$ $196.7,$ $974.1, 196.5,$ $196.1,$ $974.1, 195.7,$ $195.3,$	0.0); 198.0, 0.0); 198.0, 0.0); 197.6, 0.0); 197.3, 0.0); 196.9, 0.0); 196.5, 0.0); 195.7, 0.0);	0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0);	<pre>( 449375.8, ( 449383.5, ( 449391.2, ( 449399.0, ( 449406.7, ( 449414.5, ( 449422.2, ( 449422.2,</pre>
3758974.1, 198.0, (449371.9, 37589 3758974.1, 198.0, (449379.6, 37589 3758974.1, 197.8, (449387.4, 37589 3758974.1, 197.5, (449395.1, 37589 3758974.1, 197.1, (449402.8, 37589 3758974.1, 196.7, (449410.6, 37589 3758974.1, 196.1, (449418.3, 37589 3758974.1, 195.3, (449426.1, 37589 3758974.1, 195.3,	198.0, $974.1, 198.0,$ $974.1, 198.0,$ $974.1, 197.8,$ $974.1, 197.6,$ $197.5,$ $974.1, 197.3,$ $197.1,$ $974.1, 196.9,$ $196.7,$ $974.1, 196.5,$ $196.1,$ $974.1, 195.7,$ $195.3,$ $974.1, 194.9,$ $107.0$	0.0); 198.0, 0.0); 198.0, 0.0); 197.6, 0.0); 197.3, 0.0); 196.9, 0.0); 196.5, 0.0); 195.7, 0.0); 197.0, 0.0);	0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0);	<pre>( 449375.8, ( 449383.5, ( 449391.2, ( 449399.0, ( 449406.7, ( 449414.5, ( 449422.2, ( 449429.9,</pre>
3758974.1, 198.0, (449371.9, 37589 3758974.1, 198.0, (449379.6, 37589 3758974.1, 197.8, (449387.4, 37589 3758974.1, 197.5, (449395.1, 37589 3758974.1, 197.1, (449402.8, 37589 3758974.1, 196.7, (449410.6, 37589 3758974.1, 196.1, (449418.3, 37589 3758974.1, 195.3, (449426.1, 37589 3758974.1, 195.3, (449423.8, 37589)	198.0, $974.1, 198.0,$ $974.1, 198.0,$ $974.1, 197.8,$ $974.1, 197.6,$ $197.5,$ $974.1, 197.3,$ $197.1,$ $974.1, 196.9,$ $196.7,$ $974.1, 196.5,$ $196.1,$ $974.1, 195.7,$ $195.3,$ $974.1, 194.9,$ $197.0,$ $974.1 194.2$	0.0); 198.0, 0.0); 198.0, 0.0); 197.6, 0.0); 197.3, 0.0); 196.9, 0.0); 196.5, 0.0); 195.7, 0.0); 197.0, 0.0); 197.0, 0.0);	0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0);	<pre>( 449375.8, ( 449383.5, ( 449391.2, ( 449399.0, ( 449406.7, ( 449414.5, ( 449422.2, ( 449422.9,9, ( 449437.7</pre>
3758974.1, 198.0, (449371.9, 37589 3758974.1, 198.0, (449379.6, 37589 3758974.1, 197.8, (449387.4, 37589 3758974.1, 197.5, (449395.1, 37589 3758974.1, 197.1, (449402.8, 37589 3758974.1, 196.7, (449410.6, 37589 3758974.1, 196.1, (449418.3, 37589 3758974.1, 195.3, (449426.1, 37589 3758974.1, 195.3, (449433.8, 37589 3758974.1, 194.5, (449433.8, 37589 3758974.1, 193.8,	198.0, $974.1, 198.0,$ $974.1, 198.0,$ $974.1, 197.8,$ $974.1, 197.6,$ $197.5,$ $974.1, 197.3,$ $197.1,$ $974.1, 196.9,$ $196.7,$ $974.1, 196.5,$ $196.1,$ $974.1, 195.7,$ $195.3,$ $974.1, 194.9,$ $197.0,$ $974.1, 194.2,$ $197.0,$	0.0); 198.0, 0.0); 198.0, 0.0); 197.6, 0.0); 197.3, 0.0); 196.9, 0.0); 196.5, 0.0); 195.7, 0.0); 197.0, 0.0); 197.0, 0.0);	0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0);	<pre>( 449375.8, ( 449383.5, ( 449391.2, ( 449399.0, ( 449406.7, ( 449414.5, ( 449414.5, ( 449422.2, ( 449429.9, ( 449437.7,</pre>
3758974.1, 198.0, (449371.9, 37589 3758974.1, 198.0, (449379.6, 37589 3758974.1, 197.8, (449387.4, 37589 3758974.1, 197.5, (449395.1, 37589 3758974.1, 197.1, (449402.8, 37589 3758974.1, 196.7, (449410.6, 37589 3758974.1, 196.1, (449418.3, 37589 3758974.1, 195.3, (449426.1, 37589 3758974.1, 195.3, (449433.8, 37589 3758974.1, 193.8, (449441.5, 37589	198.0, $974.1, 198.0,$ $974.1, 198.0,$ $974.1, 197.6,$ $974.1, 197.6,$ $974.1, 197.3,$ $197.1,$ $974.1, 196.9,$ $196.7,$ $974.1, 196.5,$ $196.1,$ $974.1, 195.7,$ $195.3,$ $974.1, 194.9,$ $197.0,$ $974.1, 194.2,$ $197.0,$ $974.1, 193.4,$	0.0); 198.0, 0.0); 198.0, 0.0); 197.6, 0.0); 197.3, 0.0); 196.9, 0.0); 196.5, 0.0); 195.7, 0.0); 197.0, 0.0); 197.0, 0.0); 197.0,	<pre>0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0);</pre>	<pre>( 449375.8, ( 449383.5, ( 449391.2, ( 449399.0, ( 449406.7, ( 449406.7, ( 449414.5, ( 449422.2, ( 449422.9,9, ( 449437.7, ( 449445.4,</pre>
3758974.1, 198.0, (449371.9, 37589 3758974.1, 198.0, (449379.6, 37589 3758974.1, 197.8, (449387.4, 37589 3758974.1, 197.5, (449395.1, 37589 3758974.1, 197.1, (449402.8, 37589 3758974.1, 196.7, (449410.6, 37589 3758974.1, 196.1, (449418.3, 37589 3758974.1, 195.3, (449426.1, 37589 3758974.1, 195.3, (449433.8, 37589 3758974.1, 193.8, (449441.5, 37589 3758974.1, 193.1,	198.0, $974.1, 198.0,$ $974.1, 198.0,$ $974.1, 197.8,$ $974.1, 197.6,$ $197.5,$ $974.1, 197.3,$ $197.1,$ $974.1, 196.9,$ $196.7,$ $974.1, 196.5,$ $196.1,$ $974.1, 195.3,$ $974.1, 194.9,$ $197.0,$ $974.1, 193.4,$ $197.0,$	0.0); 198.0, 0.0); 198.0, 0.0); 197.6, 0.0); 197.3, 0.0); 196.9, 0.0); 196.5, 0.0); 195.7, 0.0); 197.0, 0.0); 197.0, 0.0); 197.0, 0.0);	0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0);	<pre>( 449375.8, ( 449383.5, ( 449391.2, ( 449399.0, ( 449406.7, ( 449406.7, ( 449414.5, ( 449422.2, ( 449429.9, ( 449437.7, ( 449445.4,</pre>
3758974.1, 198.0, (449371.9, 37589 3758974.1, 198.0, (449379.6, 37589 3758974.1, 197.8, (449387.4, 37589 3758974.1, 197.5, (449395.1, 37589 3758974.1, 197.1, (449402.8, 37589 3758974.1, 196.7, (449410.6, 37589 3758974.1, 196.1, (449418.3, 37589 3758974.1, 195.3, (449426.1, 37589 3758974.1, 195.3, (449426.1, 37589 3758974.1, 194.5, (449433.8, 37589 3758974.1, 193.8, (449441.5, 37589 3758974.1, 193.1, (449368.0, 37589	198.0, $974.1, 198.0,$ $974.1, 198.0,$ $974.1, 197.6,$ $974.1, 197.3,$ $974.1, 197.3,$ $974.1, 196.9,$ $196.7,$ $974.1, 196.5,$ $196.1,$ $974.1, 195.7,$ $195.3,$ $974.1, 194.9,$ $197.0,$ $974.1, 194.2,$ $197.0,$ $974.1, 193.4,$ $197.0,$ $988.2, 198.1,$	0.0); 198.0, 0.0); 198.0, 0.0); 197.6, 0.0); 197.3, 0.0); 196.9, 0.0); 196.5, 0.0); 195.7, 0.0); 197.0, 0.0); 197.0, 0.0); 197.0, 0.0); 197.0, 0.0); 197.0, 0.0); 197.0, 0.0); 197.0, 0.0); 197.0, 0.0); 197.0, 0.0); 197.0, 0.0); 197.0, 0.0); 197.1, 196.2, 196.2, 197.2, 196.2, 197.2, 197.4, 198.1, 198.4, 197.4, 1	<pre>0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0);</pre>	<pre>( 449375.8, ( 449383.5, ( 449391.2, ( 449399.0, ( 449406.7, ( 449406.7, ( 449414.5, ( 449422.2, ( 449422.2, ( 449437.7, ( 449445.4, ( 449371.9,</pre>
3758974.1, 198.0, (449371.9, 37589 3758974.1, 198.0, (449379.6, 37589 3758974.1, 197.8, (449387.4, 37589 3758974.1, 197.5, (449395.1, 37589 3758974.1, 197.1, (449402.8, 37589 3758974.1, 196.7, (449410.6, 37589 3758974.1, 196.1, (449418.3, 37589 3758974.1, 195.3, (449426.1, 37589 3758974.1, 195.3, (449433.8, 37589 3758974.1, 193.8, (449441.5, 37589 3758974.1, 193.1, (449368.0, 37589 3758988.2, 198.1,	198.0, $974.1, 198.0,$ $974.1, 198.0,$ $974.1, 197.8,$ $974.1, 197.3,$ $197.1,$ $974.1, 196.9,$ $196.7,$ $974.1, 196.5,$ $196.1,$ $974.1, 195.3,$ $974.1, 195.3,$ $974.1, 194.9,$ $197.0,$ $974.1, 193.4,$ $197.0,$ $988.2, 198.1,$ $198.1$	0.0); 198.0, 0.0); 198.0, 0.0); 197.6, 0.0); 197.3, 0.0); 196.9, 0.0); 196.5, 0.0); 195.7, 0.0); 197.0, 0.0); 197.0, 0.0); 197.0, 0.0); 197.0, 0.0); 197.0, 0.0); 197.0, 0.0); 197.0, 0.0); 197.0, 0.0); 197.0, 0.0); 197.0, 0.0); 197.0, 0.0); 197.1, 197.2, 197.2, 197.2, 197.4, 1	<pre>0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0);</pre>	<pre>( 449375.8, ( 449383.5, ( 449391.2, ( 449399.0, ( 449406.7, ( 449406.7, ( 449414.5, ( 449422.2, ( 449429.9, ( 449437.7, ( 449445.4, ( 449371.9, ( 449279.6</pre>
3758974.1, 198.0, (449371.9, 37589 3758974.1, 198.0, (449379.6, 37589 3758974.1, 197.8, (449387.4, 37589 3758974.1, 197.5, (449395.1, 37589 3758974.1, 197.1, (449402.8, 37589 3758974.1, 196.7, (449410.6, 37589 3758974.1, 196.1, (449418.3, 37589 3758974.1, 195.3, (449426.1, 37589 3758974.1, 195.3, (449426.1, 37589 3758974.1, 194.5, (449433.8, 37589 3758974.1, 193.8, (449441.5, 37589 3758974.1, 193.1, (449368.0, 37589 3758974.1, 193.1, (449375.8, 37589 3758988.2, 198.1	198.0, $974.1, 198.0,$ $974.1, 198.0,$ $974.1, 197.8,$ $974.1, 197.6,$ $197.5,$ $974.1, 197.3,$ $197.1,$ $974.1, 196.9,$ $196.7,$ $974.1, 196.5,$ $196.1,$ $974.1, 195.7,$ $197.0,$ $974.1, 194.9,$ $197.0,$ $974.1, 193.4,$ $197.0,$ $988.2, 198.1,$ $198.1,$	0.0); 198.0, 0.0); 198.0, 0.0); 197.6, 0.0); 197.3, 0.0); 196.9, 0.0); 196.5, 0.0); 195.7, 0.0); 197.0, 0.0); 197.0, 0.0); 197.0, 0.0); 197.0, 0.0); 198.1, 0.0):	<pre>0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0);</pre>	<pre>( 449375.8, ( 449383.5, ( 449391.2, ( 449399.0, ( 449406.7, ( 449406.7, ( 449414.5, ( 449422.2, ( 449422.2, ( 449429.9, ( 449437.7, ( 449445.4, ( 449371.9, ( 449379.6,</pre>

(449383.5, 3758988.2, 197.9,	197.9, 0.0);	( 449387.4,
3758988.2, 197.8, 197.8, 0.0)	;	
( 449391.2, 3758988.2, 197.6,	197.6, 0.0);	( 449395.1,
3758988.2, 197.5, 197.5, 0.0)	;	
(449399.0, 3758988.2, 197.4,	197.4, 0.0);	( 449402.8,
3758988.2, 197.2, 197.2, 0.0)	;	(
(449406.7, 3758988.2, 197.1,	197.1, 0.0);	( 449410.6,
3/58988.2, 196.9, 196.9, 0.0)		( 440410 2
(449414.5, 3758988.2, 190.5, 2758088.2, 196.5, 0.0)		( 449418.3,
( <u>AA9A22 2 3758988 2 195 8</u>	, 1958 00)·	( 449426 1
3758988 2 195 4 195 4 0 0)	•	( ++)+20.1,
(449429.9. 3758988.2. 195.0.	, 195.0. 0.0):	( 449433.8.
3758988.2. 194.6. 194.6. 0.0)	:	( 115 15510)
(449437.7, 3758988.2, 194.2,	, 194.2, 0.0);	( 449441.5,
3758988.2, 193.9, 193.9, 0.0)	;	
(449445.4, 3758988.2, 193.5,	193.5, 0.0);	( 449368.0,
3759002.2, 198.5, 198.5, 0.0)	;	
(449371.9, 3759002.2, 198.5,	198.5, 0.0);	( 449375.8,
3759002.2, 198.5, 198.5, 0.0)	;	
★ *** AERMOD - VERSION 19191 *** *** C:\	LAKES\AERMOD VIEW\1417	2
HRA\TOGGAS\TOGGAS.ISC *	** 11/11/21	
*** AERMET - VERSION 16216 *** ***		
*** 11:24:07		
MODELOFTS. REGULACET CONC ELEV O	KDAN ADJ_0	
	*** DISCRETE CARTEST	N RECEPTORS ***
	(X-COORD, Y-COORD, ZEL	EV. ZHILL. ZFLAG)
	(METERS	5)
	,	,
( 449379.6, 3759002.2, 198.5,	198.5, 0.0);	(449383.5,
3759002.2, 198.3, 198.3, 0.0)	;	
(449387.4, 3759002.2, 198.1,	198.1, 0.0);	( 449391.2,
3759002.2, 197.9, 197.9, 0.0)	;	
(449395.1, 3759002.2, 197.7,	197.7, 0.0);	( 449399.0,
3759002.2, 197.5, 197.5, 0.0)	;	
(449402.8, 3759002.2, 197.3,	197.3, 0.0);	( 449406.7,
3/59002.2, 19/.1, 19/.1, 0.0)	;	
(449410.0, 3759002.2, 196.9, 2750002.2 106.6 106.6 0.0		( 449414.5,
( 10.0) ( 100.12 , 2.20002 ) ( 100.0 , 0.0)	) 1963 0.0\·	( 110100 0
$( \frac{449410.3}{19602.2}, \frac{190.3}{19602.2}, \frac{190.3}{196002.2}, 190$	•	( ++)+22.2,
( 110126 1 2750002 2 105 6	, 1956 00),	( 110120 0

(449426.1, 3759002.2, 195.6, 195.6, 0.0); (449429.9, 3759002.2, 195.3, 195.3, 0.0); (449433.8, 3759002.2, 195.0, 195.0, 0.0); (449437.7, 3759002.2, 194.7, 194.7, 0.0); (449441.5, 3759002.2, 194.3, 194.3, 0.0); (449445.4, 3759002.2, 193.9, 193.9, 0.0);

( 449368.0, 3759016.2,	, 199.0,	199.0,	0.0);	( 449371.9,
3759016.2, 199.0, 1	199.0,	0.0);	>	
(449375.8, 3759016.2,	, 199.0,	199.0,	0.0);	( 449379.6,
3/59016.2, 199.0, J ( 440282 5 2750816 2	109.0,	0.0); 109 7	0 0).	( 110297 1
3759016.2. 198.5. 1	198.5.	190.7, 0.0):	0.0),	( 449587.4,
( 449391.2, 3759016.2,	198.2	198.2,	0.0);	( 449395.1,
3759016.2, 198.0, 1	198.0,	0.0);		
( 449399.0, 3759016.2,	, 197.7,	197.7,	0.0);	( 449402.8,
3759016.2, 197.4, 1	197.4,	0.0);	>	
(449406.7, 3759016.2,	, 197.2,	197.2,	0.0);	( 449410.6,
3/59016.2, 196.9, J	106.7	0.0); 106 7	0 0).	( 110119 2
3759016.2. 196.4. 1	196.4	190.7, 0.0):	0.0),	( 449410.3,
( 449422.2, 3759016.2,	196.2	196.2,	0.0);	( 449426.1,
3759016.2, 195.9, 1	195.9,	0.0);	,,,	
( 449429.9, 3759016.2,	, 195.6,	195.6,	0.0);	( 449433.8,
3759016.2, 195.4, 1	195.4,	0.0);		
(449437.7, 3759016.2,	, 195.1,	195.1,	0.0);	( 449441.5,
3759016.2, 194.8, 1	104.4	0.0);	0.0).	( 440260 0
(449445.4, 3759016.2,	, 194.4,	195.0,	0.0);	( 449368.0,
<i>( 11</i> 9371 9 3759030 3	198.5,	198 5	9 9).	( 119375 8
3759030.3. 198.5. 1	198.5.	0.0):	0.0);	( ++))/).0,
(449379.6, 3759030.3,	198.5	198.5,	0.0);	( 449383.5,
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3759030.3, 198.3, 1	L98.3,	0.0);		
3759030.3, 198.3, 1 ( 449387.4, 3759030.3,	198.3, , 198.0,	0.0); 198.0,	0.0);	( 449391.2,
3759030.3,       198.3,       1         (449387.4,       3759030.3,       3759030.3,       1         3759030.3,       197.8,       1	198.3, , 198.0, 197.8,	0.0); 198.0, 0.0);	0.0);	( 449391.2,
3759030.3, 198.3, 1 ( 449387.4, 3759030.3, 3759030.3, 197.8, 1 ( 449395.1, 3759030.3,	198.3, , 198.0, 197.8, , 197.5,	0.0); 198.0, 0.0); 197.5,	0.0); 0.0);	( 449391.2, ( 449399.0,
3759030.3, 198.3, 1 ( 449387.4, 3759030.3, 3759030.3, 197.8, 1 ( 449395.1, 3759030.3, 3759030.3, 197.2, 1	198.3, , 198.0, 197.8, , 197.5, 197.2,	0.0); 198.0, 0.0); 197.5, 0.0);	0.0); 0.0);	( 449391.2, ( 449399.0,
3759030.3, 198.3, 1 (449387.4, 3759030.3, 3759030.3, 197.8, 1 (449395.1, 3759030.3, 3759030.3, 197.2, 1 (449402.8, 3759030.3, 3759030.3 196.7	198.3, 198.0, 197.8, 197.5, 197.2, 197.0, 196.7	0.0); 198.0, 0.0); 197.5, 0.0); 197.0, 0.0):	0.0); 0.0); 0.0);	( 449391.2, ( 449399.0, ( 449406.7,
3759030.3, 198.3, 1 ( 449387.4, 3759030.3, 3759030.3, 197.8, 1 ( 449395.1, 3759030.3, 3759030.3, 197.2, 1 ( 449402.8, 3759030.3, 3759030.3, 196.7, 1 ( 449410.6, 3759030.3	198.3, 198.0, 197.8, 197.5, 197.2, 197.0, 196.7, 196.5,	0.0); 198.0, 0.0); 197.5, 0.0); 197.0, 0.0); 196.5.	0.0); 0.0); 0.0); 0.0);	<pre>( 449391.2, ( 449399.0, ( 449406.7, ( 449414.5</pre>
3759030.3, 198.3, 1 (449387.4, 3759030.3, 3759030.3, 197.8, 1 (449395.1, 3759030.3, 3759030.3, 197.2, 1 (449402.8, 3759030.3, 3759030.3, 196.7, 1 (449410.6, 3759030.3, 3759030.3, 196.3, 1	198.3, 198.0, 197.8, 197.5, 197.2, 197.0, 196.7, 196.5, 196.3,	0.0); 198.0, 0.0); 197.5, 0.0); 197.0, 0.0); 196.5, 0.0);	0.0); 0.0); 0.0); 0.0);	<pre>( 449391.2, ( 449399.0, ( 449406.7, ( 449414.5,</pre>
3759030.3, 198.3, 1 ( 449387.4, 3759030.3, 3759030.3, 197.8, 1 ( 449395.1, 3759030.3, 3759030.3, 197.2, 1 ( 449402.8, 3759030.3, 3759030.3, 196.7, 1 ( 449410.6, 3759030.3, 3759030.3, 196.3, 1 ( 449418.3, 3759030.3,	198.3, 198.0, 197.8, 197.2, 197.2, 196.7, 196.7, 196.3, 196.1,	0.0); 198.0, 0.0); 197.5, 0.0); 197.0, 0.0); 196.5, 0.0); 196.1,	0.0); 0.0); 0.0); 0.0); 0.0);	<pre>( 449391.2, ( 449399.0, ( 449406.7, ( 449414.5, ( 449422.2,</pre>
3759030.3, 198.3, 1 (449387.4, 3759030.3, 3759030.3, 197.8, 1 (449395.1, 3759030.3, 3759030.3, 197.2, 1 (449402.8, 3759030.3, 3759030.3, 196.7, 1 (449410.6, 3759030.3, 3759030.3, 196.3, 1 (449418.3, 3759030.3, 3759030.3, 195.9, 1	198.3, 198.0, 197.8, 197.5, 197.2, 197.0, 196.7, 196.3, 196.1, 195.9,	0.0); 198.0, 0.0); 197.5, 0.0); 197.0, 0.0); 196.5, 0.0); 196.1, 0.0);	0.0); 0.0); 0.0); 0.0); 0.0);	<pre>( 449391.2, ( 449399.0, ( 449406.7, ( 449414.5, ( 449422.2,</pre>
3759030.3, 198.3, 1 (449387.4, 3759030.3, 3759030.3, 197.8, 1 (449395.1, 3759030.3, 3759030.3, 197.2, 1 (449402.8, 3759030.3, 3759030.3, 196.7, 1 (449410.6, 3759030.3, 3759030.3, 196.3, 1 (449418.3, 3759030.3, 3759030.3, 195.9, 1 (449426.1, 3759030.3,	198.3, 198.0, 197.8, 197.2, 197.2, 197.0, 196.7, 196.5, 196.3, 196.1, 195.9, 195.7,	0.0); 198.0, 0.0); 197.5, 0.0); 197.0, 0.0); 196.5, 0.0); 196.1, 0.0); 195.7,	0.0); 0.0); 0.0); 0.0); 0.0); 0.0);	<pre>( 449391.2, ( 449399.0, ( 449406.7, ( 449414.5, ( 449422.2, ( 449429.9,</pre>
3759030.3, 198.3, 1 (449387.4, 3759030.3, 3759030.3, 197.8, 1 (449395.1, 3759030.3, 3759030.3, 197.2, 1 (449402.8, 3759030.3, 3759030.3, 196.7, 1 (449410.6, 3759030.3, 3759030.3, 196.3, 1 (449418.3, 3759030.3, 3759030.3, 195.9, 1 (449426.1, 3759030.3, 3759030.3, 195.5, 1	198.3, 198.0, 197.8, 197.2, 197.2, 196.7, 196.7, 196.3, 196.1, 195.9, 195.5, 195.5,	0.0); 198.0, 0.0); 197.5, 0.0); 197.0, 0.0); 196.5, 0.0); 196.1, 0.0); 195.7, 0.0);	0.0); 0.0); 0.0); 0.0); 0.0); 0.0);	<pre>( 449391.2, ( 449399.0, ( 449406.7, ( 449414.5, ( 449422.2, ( 449429.9, )</pre>
3759030.3, 198.3, 1 (449387.4, 3759030.3, 3759030.3, 197.8, 1 (449395.1, 3759030.3, 3759030.3, 197.2, 1 (449402.8, 3759030.3, 3759030.3, 196.7, 1 (449410.6, 3759030.3, 3759030.3, 196.3, 1 (449418.3, 3759030.3, 3759030.3, 195.9, 1 (449426.1, 3759030.3, 3759030.3, 195.5, 1 (449433.8, 3759030.3,	198.3, 198.4, 197.8, 197.5, 197.2, 197.0, 196.7, 196.5, 196.3, 196.1, 195.9, 195.5, 195.3,	0.0); 198.0, 0.0); 197.5, 0.0); 197.0, 0.0); 196.5, 0.0); 196.1, 0.0); 195.7, 0.0); 195.3,	0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0);	<ul> <li>( 449391.2,</li> <li>( 449399.0,</li> <li>( 449406.7,</li> <li>( 449414.5,</li> <li>( 449422.2,</li> <li>( 449429.9,</li> <li>( 449437.7,</li> </ul>
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3759030.3, 198.3, 1 ( 449387.4, 3759030.3, 3759030.3, 197.8, 1 ( 449395.1, 3759030.3, 3759030.3, 197.2, 1 ( 449402.8, 3759030.3, 3759030.3, 196.7, 1 ( 449410.6, 3759030.3, 3759030.3, 196.3, 1 ( 449418.3, 3759030.3, 3759030.3, 195.9, 1 ( 449426.1, 3759030.3, 3759030.3, 195.5, 1 ( 449433.8, 3759030.3, 3759030.3, 195.1, 1 ( 449441.5, 3759030.3, 3759030.3, 194.4, 1	198.3, 198.3, 197.8, 197.5, 197.2, 197.0, 196.7, 196.3, 196.3, 196.1, 195.9, 195.5, 195.5, 195.5, 195.3, 195.1, 194.8, 194.4, 198.1.	0.0); 198.0, 0.0); 197.5, 0.0); 197.0, 0.0); 196.5, 0.0); 196.1, 0.0); 195.7, 0.0); 195.3, 0.0); 194.8, 0.0); 198.1.	<pre>0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0);</pre>	<pre>( 449391.2, ( 449399.0, ( 449406.7, ( 449414.5, ( 449422.2, ( 449429.9, ( 449437.7, ( 449445.4, ( 449371.9.</pre>
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3759030.3, 198.3, ( 449387.4, 3759030.3, 3759030.3, 197.8, ( 449395.1, 3759030.3, 3759030.3, 197.2, ( 449402.8, 3759030.3, 3759030.3, 196.7, ( 449410.6, 3759030.3, 3759030.3, 196.3, ( 449418.3, 3759030.3, 3759030.3, 195.9, ( 449426.1, 3759030.3, 3759030.3, 195.5, ( 449433.8, 3759030.3, 3759030.3, 195.1, ( 449441.5, 3759030.3, 3759030.3, 195.1, ( 449441.5, 3759030.3, 3759030.3, 194.4, ( 449368.0, 3759044.3, 3759044.3, 198.1, ( 449375.8, 3759044.3,	198.3, 198.3, 197.8, 197.8, 197.5, 197.2, 197.0, 196.7, 196.3, 196.1, 195.9, 195.5, 195.5, 195.3, 195.1, 194.8, 198.1, 198.1, 198.1,	0.0); 198.0, 0.0); 197.5, 0.0); 197.0, 0.0); 196.5, 0.0); 196.1, 0.0); 195.7, 0.0); 195.3, 0.0); 194.8, 0.0); 198.1, 0.0); 198.1,	<pre>0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0);</pre>	<ul> <li>( 449391.2,</li> <li>( 449399.0,</li> <li>( 449406.7,</li> <li>( 449414.5,</li> <li>( 449422.2,</li> <li>( 449429.9,</li> <li>( 449437.7,</li> <li>( 449445.4,</li> <li>( 449371.9,</li> <li>( 449379.6,</li> </ul>
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3759030.3, 198.3, 1 (449387.4, 3759030.3, 3759030.3, 197.8, 1 (449395.1, 3759030.3, 3759030.3, 197.2, 1 (449402.8, 3759030.3, 3759030.3, 196.7, 1 (449410.6, 3759030.3, 3759030.3, 196.3, 1 (449418.3, 3759030.3, 3759030.3, 195.9, 1 (449426.1, 3759030.3, 3759030.3, 195.5, 1 (449433.8, 3759030.3, 3759030.3, 195.1, 1 (449441.5, 3759030.3, 3759030.3, 195.1, 1 (449441.5, 3759030.3, 3759030.3, 194.4, 1 (449368.0, 3759044.3, 3759044.3, 198.1, 1 (449383.5, 3759044.3,	198.3, 198.3, 197.8, 197.8, 197.5, 197.2, 197.0, 196.7, 196.5, 196.3, 196.1, 195.9, 195.7, 195.5, 195.3, 195.1, 194.8, 198.1, 198.1, 197.8,	0.0); 198.0, 0.0); 197.5, 0.0); 197.0, 0.0); 196.5, 0.0); 196.1, 0.0); 195.7, 0.0); 195.3, 0.0); 194.8, 0.0); 198.1, 0.0); 198.1, 0.0); 197.8,	<pre>0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0);</pre>	<ul> <li>( 449391.2,</li> <li>( 449399.0,</li> <li>( 449406.7,</li> <li>( 449414.5,</li> <li>( 449422.2,</li> <li>( 449429.9,</li> <li>( 449437.7,</li> <li>( 449445.4,</li> <li>( 449371.9,</li> <li>( 449379.6,</li> <li>( 449387.4,</li> </ul>
3759030.3, 198.3, 1 ( 449387.4, 3759030.3, 3759030.3, 197.8, 1 ( 449395.1, 3759030.3, 3759030.3, 197.2, 1 ( 449402.8, 3759030.3, 3759030.3, 196.7, 1 ( 449410.6, 3759030.3, 3759030.3, 196.3, 1 ( 449418.3, 3759030.3, 3759030.3, 195.9, 1 ( 449426.1, 3759030.3, 3759030.3, 195.5, 1 ( 449433.8, 3759030.3, 3759030.3, 195.1, 1 ( 449441.5, 3759030.3, 3759030.3, 195.1, 1 ( 449441.5, 3759030.3, 3759030.3, 194.4, 1 ( 449368.0, 3759044.3, 3759044.3, 198.1, 1 ( 449383.5, 3759044.3, 3759044.3, 197.5, 1	198.3, 198.3, 197.8, 197.2, 197.2, 197.0, 196.7, 196.3, 196.3, 196.1, 195.9, 195.5, 195.5, 195.5, 195.1, 194.8, 194.4, 198.1, 198.1, 198.1, 197.8, 197.5, 197.8,	0.0); 198.0, 0.0); 197.5, 0.0); 197.0, 0.0); 196.5, 0.0); 196.1, 0.0); 195.7, 0.0); 195.3, 0.0); 194.8, 0.0); 198.1, 0.0); 198.1, 0.0); 197.8, 0.0);	<pre>0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0);</pre>	<ul> <li>( 449391.2,</li> <li>( 449399.0,</li> <li>( 449406.7,</li> <li>( 449414.5,</li> <li>( 449422.2,</li> <li>( 449429.9,</li> <li>( 449437.7,</li> <li>( 449445.4,</li> <li>( 449371.9,</li> <li>( 449379.6,</li> <li>( 449387.4,</li> </ul>
3759030.3, 198.3, 1 ( $449387.4, 3759030.3, 3759030.3, 197.8, 1$ ( $449395.1, 3759030.3, 3759030.3, 197.2, 1$ ( $449402.8, 3759030.3, 3759030.3, 196.7, 1$ ( $449410.6, 3759030.3, 3759030.3, 196.3, 1$ ( $449418.3, 3759030.3, 3759030.3, 195.9, 1$ ( $449426.1, 3759030.3, 3759030.3, 195.5, 1$ ( $449426.1, 3759030.3, 3759030.3, 195.5, 1$ ( $449433.8, 3759030.3, 3759030.3, 195.1, 1$ ( $449441.5, 3759030.3, 3759030.3, 194.4, 1$ ( $449368.0, 3759044.3, 3759044.3, 198.1, 1$ ( $449375.8, 3759044.3, 3759044.3, 198.1, 1$ ( $449383.5, 3759044.3, 3759044.3, 197.5, 1$ ( $449391.2, 3759044.3, 197.5, 1$	198.3, 198.3, 197.8, 197.2, 197.2, 197.2, 196.7, 196.5, 196.3, 196.1, 195.9, 195.7, 195.5, 195.3, 195.1, 194.8, 194.4, 198.1, 198.1, 198.1, 197.8, 197.3,	0.0); 198.0, 0.0); 197.5, 0.0); 197.0, 0.0); 196.5, 0.0); 196.1, 0.0); 195.7, 0.0); 195.3, 0.0); 194.8, 0.0); 198.1, 0.0); 198.1, 0.0); 197.8, 0.0); 197.3, 0.0);	<pre>0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0); 0.0);</pre>	<ul> <li>( 449391.2,</li> <li>( 449399.0,</li> <li>( 449406.7,</li> <li>( 449414.5,</li> <li>( 449422.2,</li> <li>( 449429.9,</li> <li>( 449437.7,</li> <li>( 449445.4,</li> <li>( 449371.9,</li> <li>( 449379.6,</li> <li>( 449387.4,</li> <li>( 449395.1,</li> </ul>

(449399.0, 3759044.3, 196.8, 196.8, 0.0); (449402.8, 3759044.3, 196.5, 196.5, 0.0); (449406.7, 3759044.3, 196.2, 196.2, 0.0); (449410.6)3759044.3, 196.0, 196.0, 0.0); 195.9, (449414.5, 3759044.3, 195.9, 0.0); (449418.3, 3759044.3, 195.8, 195.8, 0.0); (449422.2, 3759044.3, 195.6, 0.0); ( 449426.1. 195.6, 195.5, 195.5, 0.0); 3759044.3, 195.3, (449429.9, 3759044.3, 195.3, 0.0); (449433.8)195.2, 195.2, 3759044.3, 0.0);195.1, (449437.7, 3759044.3, 195.1, 0.0); (449441.5, 3759044.3, 194.8, 194.8, 0.0); (449445.4, 3759044.3, 194.4, 194.4, 0.0); ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 \*\*\* HRA\TOGGAS\TOGGAS.ISC 11/11/21 \*\*\* \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* 11:24:07 PAGE 10 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ U\* \*\*\* METEOROLOGICAL DAYS SELECTED FOR PROCESSING \*\*\* (1=YES; 0=NO) 1111111111 1111111111 1111111111 111 1111111 11111111111 1111111111 111 1111111 11111111111 1111111111 111 1111111111 1111111111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1111111111 1111111111 1111111111 111 1111111 11111111111 1111111111 1111111111 1111111111 1 1 1 1111111111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1111111111 1111111111 11111

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

\*\*\* UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED

CATEGORIES \*\*\*

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80, ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 \*\*\* 11/11/21 HRA\TOGGAS\TOGGAS.ISC \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* \*\*\* 11:24:07 PAGE 11 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ U\* \*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\* Surface file: ..\KRAL\_V9\_ADJU\KRAL\_V9.SFC Met Version: 16216 Profile file: ..\KRAL V9 ADJU\KRAL V9.PFL Surface format: FREE Profile format: FREE Upper air station no.: Surface station no.: 3171 3190 Name: UNKNOWN Name: UNKNOWN Year: 2012 Year: 2012 First 24 hours of scalar data YR MO DY JDY HR HØ U\* W\* DT/DZ ZICNV ZIMCH M-O LEN ZØ BOWEN ALBEDO REF WS WD HT REF TA HT . . . . . . . . . . . . . . . . . . . 12 01 01 1 01 -25.6 0.266 -9.000 -9.000 -999. 330. 77.9 0.15 2.40 1.00 2.93 55. 10.1 288.1 2.0 12 01 01 1 02 -26.8 0.277 -9.000 -9.000 -999. 351. 84.7 0.15 2.40 1.00 3.05 55. 10.1 287.0 2.0 12 01 01 1 03 -21.5 0.221 -9.000 -9.000 -999. 250. 53.5 0.15 2.40 2.45 74. 10.1 284.2 2.0 1.00 12 01 01 1 04 -22.0 0.227 -9.000 -9.000 -999. 260. 56.8 0.15 2.40 1.00 2.52 77. 10.1 285.9 2.0 12 01 01 1 05 -20.0 0.206 -9.000 -9.000 -999. 225. 46.8 0.15 2.40 2.30 80. 10.1 285.4 1.00 2.0 12 01 01 1 06 -14.4 0.171 -9.000 -9.000 -999. 170. 32.1 0.15 2.40 1.00 1.93 79. 10.1 287.0 2.0 12 01 01 1 07 -14.9 0.174 -9.000 -9.000 -999. 174. 33.2 0.15 2.40 1.00 1.96 77. 10.1 284.2 2.0 12 01 01 1 08 -11.9 0.169 -9.000 -9.000 -999. 167. 36.1 0.15 2.40 1.89 77. 10.1 288.1 2.0 0.53 12 01 01 1 09 40.4 0.234 0.359 0.006 40. 272. -28.1 0.15 2.40 0.31 2.10 81. 10.1 289.2 2.0

12 01 01 1 10 112.6 0.246 0.742 0.005 129. 293. -11.8 0.15 2.40 10.1 296.4 2.0 0.24 1.99 101. 12 01 01 1 11 161.0 0.402 1.188 0.005 369. 611. -35.6 0.15 2.40 10.1 298.8 0.21 3.68 78. 2.0 12 01 01 1 12 184.7 0.337 1.516 0.005 668. 473. -18.4 0.15 2.40 0.20 2.89 68. 10.1 300.4 2.0 12 01 01 1 13 183.9 0.310 1.809 0.005 1139. 414. -14.2 0.15 2.40 0.20 2.57 64. 10.1 302.5 2.0 12 01 01 1 14 156.6 0.374 1.852 0.005 1434. 549. -29.5 0.15 2.40 0.22 3.37 63. 10.1 303.1 2.0 12 01 01 1 15 104.3 0.382 1.658 0.005 1546. 567. -47.2 0.15 2.40 10.1 302.5 0.25 3.59 62. 2.0 12 01 01 1 16 31.8 0.374 1.123 0.005 1573. 550. -145.8 0.15 2.40 0.34 10.1 300.9 3.76 69. 2.0 1 17 -23.3 0.276 -9.000 -9.000 -999. 354. 12 01 01 84.0 0.15 2.40 10.1 297.5 2.0 0.62 3.03 59. 12 01 01 1 18 -21.5 0.229 -9.000 -9.000 -999. 264. 57.8 0.15 2.40 1.00 2.54 54. 10.1 295.4 2.0 12 01 01 1 19 -19.3 0.204 -9.000 -9.000 -999. 221. 45.6 0.15 2.40 1.00 2.27 79. 10.1 292.0 2.0 12 01 01 1 20 -20.7 0.218 -9.000 -9.000 -999. 244. 52.2 0.15 2.40 2.42 79. 10.1 292.5 1.00 2.0 1 21 -19.7 0.206 -9.000 -9.000 -999. 225. 46.9 12 01 01 0.15 2.40 2.30 95. 10.1 290.9 1.00 2.0 1 22 -17.6 0.190 -9.000 -9.000 -999. 199. 39.8 0.15 2.40 12 01 01 2.13 78. 10.1 290.4 1.00 2.0 12 01 01 1 23 -20.3 0.211 -9.000 -9.000 -999. 233. 49.0 0.15 2.40 10.1 289.2 1.00 2.35 52. 2.0 1 24 -16.4 0.183 -9.000 -9.000 -999. 189. 12 01 01 37.0 0.15 2.40 10.1 288.8 1.00 2.06 75. 2.0 First hour of profile data YR MO DY HR HEIGHT F WDIR WSPD AMB TMP sigmaA sigmaW sigmaV 12 01 01 01 10.1 1 55. 2.93 288.2 99.0 -99.00 -99.00

PAGE 12 \*\*\* MODELOPTS: RegDFAULT CONC ELEV URBAN ADJ\_U\* \*\*\* THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5 YEARS FOR SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S): L0000183 , L0000184 , L0000185 , L0000186 , L0000187 , L0000188 , L0000189 , L0000190 , L0000191 , L0000192

, L0000193 , L0000201 ,	, L0000194 L0000196 , L0000202 L0000204	, L0000195 , L0000197 , L0000203 , L0000205	, , L0000: , , L00002	198 , Lu 206 , Lu	0000199 0000207	, L0000200 , L0000208
4.4.4			*** DI	ISCRETE CA	RTESIAN RE	CEPTOR POINTS
***						
	**		** CONC OF	TOGGAS	IN MICROGR	AMS/M**3
X-COORD Y-COORD (M)	(M) Y-COORD CONC	(M) 	CONC		X-C	:OORD (M)
449368	 3.02 375876	 3.53	 0.11874		4	49371.89
3758763.53	0.11360					
449375	5.76 375876	3.53	0.10877		4	49379.63
3758763.53	0.10427				-	
449383	3.50 375876	3.53	0.10029		4	49387.37
3/58/63.53	0.09660	2 5 2	0 00214			140205 11
	L.24 3/58/6	3.53	0.09314		4	49395.11
2/20/02.22	0.00990	2 5 2	0 09696		л	10102 05
3758763 53	0 08/01	5.55	0.00000		4	49402.09
27.50705.55 449406	5 72 375876	3 53	0 08134		4	49410 59
3758763.53	0.07886		0.00104		-	
449414	1.46 375876	3.53	0.07661		4	49418.33
3758763.53	0.07449					
449422	2.20 375876	3.53	0.07247		4	49426.07
3758763.53	0.07055					
449429	9.94 375876	3.53	0.06873		4	49433.81
3758763.53	0.06699					
449437	7.68 375876	3.53	0.06533		4	49441.55
3758763.53	0.06379					
449445	5.42 375876	3.53	0.06234		4	49368.02
3758777.57	0.11879					
449371	L.89 375877	7.57	0.11342		4	49375.76
3758777.57	0.10838					
449379	9.63 375877	7.57	0.10372		4	49383.50
3758777.57	0.09975				_	
449387	7.37 375877	7.57	0.09607		4	49391.24
3/58///.5/	0.09264		0 00040			40200 00
449395	3/5877	/.5/	0.08943		4	49398.98
3/58///.5/		7 67	0 00250		А	40406 72
449402	//86/6 Co.2	/.5/	82580.0		4	49400.12
כוכוכ אאםאזג	ענשטשיש דבסשל איי	7 57	0 07816		л	1911 16
3758777 57	0,07625	, ,	0.070+0		4	
	0.07025					

449418.33 3758777.57	0.07415	449422.20
3758777.57 0.07215		
449426.07 3758777.57	0.07025	449429.94
3758777.57 0.06845		
449433.81 3/58///.5/	0.06673	449437.68
3/58///.5/ 0.06508	0.06250	440445 42
	0.06358	449445.42
	0 11005	440271 00
449500.02 5/50/91.01 2759701 61 0 11295	0.11905	449571.09
<i>1/</i> 9375 76 3758791 61	0 10902	119379 63
3758791 61 0 10452	0.10902	
449383.50 3758791.61	0.10053	449387.37
3758791.61 0.09682	0.10000	10000,000
449391.24 3758791.61	0.09335	449395.11
3758791.61 0.09013		
449398.98 3758791.61	0.08709	449402.85
3758791.61 0.08424		
449406.72 3758791.61	0.08156	449410.59
3758791.61 0.07907		
449414.46 3758791.61	0.07683	449418.33
3758791.61 0.07471		
449422.20 3758791.61	0.07271	449426.07
3758791.61 0.07079		
449429.94 3758791.61	0.06897	449433.81
3/58/91.61 0.06/23	0.0000	440441 55
449437.68 3758791.61	0.06558	449441.55
3/58/91.01 0.00402 44044E 42 27E9701 61	0 06257	110269 02
449445.42 5/56/91.01 3758805.65 0 11031	0.00257	449500.02
449371 89 3758805 65	0 11426	449375 76
3758805.65 0.10960	0.11,20	119979170
449379.63 3758805.65	0.10529	449383.50
3758805.65 0.10127		
449387.37 3758805.65	0.09754	449391.24
3758805.65 0.09405		
449395.11 3758805.65	0.09079	449398.98
3758805.65 0.08774		
449402.85 3758805.65	0.08487	449406.72
3758805.65 0.08217		
449410.59 3758805.65	0.07967	449414.46
3758805.65 0.07741	0.07506	
449418.33 3/58805.65	0.0/526	449422.20
۵/۵۵/۵۲ כס. כט אס	0 07120	110120 04
449420.0/ 3/38803.05	0.01130	449429.94
A *** ΔFRMOD - V/FRSTON 19191 ***	*** C•\  &KFS\&FRMOD \/TFW\\1/177	
	*** 11/11/01	
*** AERMET - VERSION 16216 ***	***	
***	11:24:07	

PAG *** MODELOPTs: RegDFAULT CONC EL	E 13 EV URBAN ADJ U*	
*** THE ANNUAL AVERA YEARS FOR SOURCE GROUP: ALL ***	AGE CONCENTRATION VALUES AVERAGED OVER 5	
INCL	UDING SOURCE(S): L0000183 , L0000184	
, L0000185 , L0000186 , L000018	7,	
. L0000193 . L0000194 . L000019	9 , L0000190 , L0000191 , L0000192 5 .	
L0000196 , L000019	7 , L0000198 , L0000199 , L0000200	
,L0000201 ,L0000202 ,L000020	3,	
L0000204 , L000020	5 , L0000206 , L0000207 , L0000208	
,		
***	*** DISCRETE CARTESIAN RECEPTOR POINTS	
Υ Υ Υ		
	** CONC OF TOGGAS IN MICROGRAMS/M**3	
**		
X-COORD (M) Y-COORD (M)	CONC X-COORD (M)	
Y-COORD (M) CONC		
449433.81 3758805.65	0.06772 449437.68	
3758805.65 0.06605		
449441.55 3758805.65	0.06446 449445.42	
3/58805.65 0.06293 449368.02 3758819.69	0.11937 449371.89	
3758819.69 0.11432	0.1155/1.05	
449375.76 3758819.69	0.10966 449379.63	
3758819.69 0.10534 449383 50 3758819 69	0 10132 449387 37	
3758819.69 0.09758	0.10192	
449391.24 3758819.69	0.09409 449395.11	
3758819.69 0.09084 449398 98 3758819.69	0 08778 440402 85	
3758819.69 0.08491	449402.85	
449406.72 3758819.69	0.08221 449410.59	
3758819.69 0.07971 440414 46 2758810 60	0.07745 440410.22	
449414.46 3758819.69 3758819.69 0.07531	0.07745 449418.33	
449422.20 3758819.69	0.07328 449426.07	
3758819.69 0.07136	0.00000	
449429.94 3758819.69 3758819.69 0.06778	0.06953 449433.81	
449437.68 3758819.69	0.06611 449441.55	
3758819.69 0.06452		
449445.42 3758819.69	0.06300 449368.02	

3758833.73 0.11938		
449371.89 3758833.73	0.11432	449375.76
3758833.73 0.10966		
449379.63 3758833.73	0.10533	449383.50
3758833.73 0.10131		
449387.37 3758833.73	0.09757	449391.24
3758833.73 0.09408		
449395.11 3758833.73	0.09084	449398.98
3758833.73 0.08778		
449402.85 3758833.73	0.08491	449406.72
3758833.73 0.08221		
449410.59 3758833.73	0.07972	449414.46
3758833.73 0.07746		
449418.33 3758833.73	0.07533	449422.20
3758833.73 0.07330		
449426.07 3758833.73	0.07138	449429.94
3758833.73 0.06955		
449433.81 3758833.73	0.06781	449437.68
3758833.73 0.06614		
449441.55 3758833.73	0.06455	449445.42
3758833.73 0.06303		
449368.02 3758847.77	0.12036	449371.89
3758847.77 0.11536		
449375.76 3758847.77	0.11075	449379.63
3758847.77 0.10646		
449383.50 3758847.77	0.10242	449387.37
3758847.77 0.09866		
449391.24 3758847.77	0.09514	449395.11
3758847.77 0.09185		
449398.98 3758847.77	0.08876	449402.85
3758847.77 0.08586		
449406.72 3758847.77	0.08314	449410.59
3758847.77 0.08059		
449414.46 3758847.77	0.07825	449418.33
3758847.77 0.07604		
449422.20 3758847.77	0.07393	449426.07
3758847.77 0.07194		
449429.94 3758847.77	0.07004	449433.81
3758847.77 0.06823		
449437.68 3758847.77	0.06651	449441.55
3758847.77 0.06489		
449445.42 3758847.77	0.06336	449368.02
3758861.81 0.12103		
449371.89 3758861.81	0.11618	449375.76
3/58861.81 0.11164		
449379.63 3758861.81	0.10756	449383.50
3/58861.81 0.10356	0.00070	440004 55
44938/.3/ 3758861.81	0.09979	449391.24
3/58861.81 0.0962/	0.00007	
449395.11 3/58861.81	0.09297	449398.98

3758861.81 0.08986 449402.85 3758861.81 0.08694 449406.72 3758861.81 0.08418 449410.59 3758861.81 0.08159 449414.46 3758861.81 0.07915 ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 \*\*\* 11/11/21 HRA\TOGGAS\TOGGAS.ISC \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* \*\*\* 11:24:07 PAGE 14 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\* \*\*\* THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5 YEARS FOR SOURCE GROUP: ALL \*\*\* INCLUDING SOURCE(S): L0000183 , L0000184 , L0000185 , L0000186 , L0000187 L0000188 , L0000189 , L0000190 , L0000191 , L0000192 , L0000194 , L0000195 , L0000196 , L0000197 , L0000198 , L0000199 , L0000200 , L0000193 , L0000203 ,L0000201 ,L0000202 L0000204 , L0000205 , L0000206 , L0000207 , L0000208 ر **\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS** \*\*\* \*\* CONC OF TOGGAS IN MICROGRAMS/M\*\*3 \*\* X-COORD (M) Y-COORD (M) CONC X-COORD (M) Y-COORD (M) CONC - - - - - -449418.33 3758861.81 0.07684 449422.20 3758861.81 0.07466 449426.07 3758861.81 0.07259 449429.94 3758861.81 0.07062 449433.81 3758861.81 0.06874 449437.68 3758861.81 0.06695 449441.55 3758861.81 0.06530 449445.42 3758861.81 0.06375 449368.02 3758875.85 0.12124 449371.89 3758875.85 0.11641 449375.76 3758875.85 0.11193 449379.63 3758875.85 0.10777 449383.50 3758875.85 0.10400 449387.37 3758875.85 0.10028 449391.24 3758875.85 0.09690 449395.11 3758875.85 0.09360

449398.98 3758875.85	0.09050	449402.85
3758875.85 0.08757		
449406.72 3758875.85	0.08481	449410.59
3758875.85 0.08220	0 07070	440440 22
449414.46 3758875.85	0.0/9/3	449418.33
۲۸۵۸۵۲۵ ۵٬۵۷۲۲۷ ۸۸۵۸۵۲ ۵۵ ۲۲۶۵۶۶۶ ۵۵	0 07518	119126 07
3758875 85 0 07307	0.0/518	449420.07
449429.94 3758875.85	0.07107	449433.81
3758875.85 0.06916	010/20/	
449437.68 3758875.85	0.06736	449441.55
3758875.85 0.06568		
449445.42 3758875.85	0.06413	449368.02
3758889.89 0.12131		
449371.89 3758889.89	0.11648	449375.76
3758889.89 0.11203	0 40005	
4493/9.63 3/58889.89	0.10805	449383.50
3/58889.89 0.10419	0 10064	440201 24
3758889 89 0 00720	0.10004	449391.24
449395,11 3758889,89	0,09402	449398.98
3758889.89 0.09093	0103102	19990.90
449402.85 3758889.89	0.08800	449406.72
3758889.89 0.08524		
449410.59 3758889.89	0.08263	449414.46
3758889.89 0.08015		
449418.33 3758889.89	0.07781	449422.20
3758889.89 0.07559		
449426.07 3758889.89	0.07348	449429.94
3/58889.89 0.0/14/		440427 68
449455.81 575889.89 3758889 89 0 0.06773	0.00955	449437.08
<i>44944</i> 1 55 3758889 89	0 06605	449445 42
3758889.89 0.06449	0.00005	++2++2.+2
449368.02 3758903.93	0.12126	449371.89
3758903.93 0.11646		
449375.76 3758903.93	0.11203	449379.63
3758903.93 0.10792		
449383.50 3758903.93	0.10427	449387.37
3758903.93 0.10067		
449391.24 3758903.93	0.09745	449395.11
3/58903.93 0.09426	0.00124	440402 85
449398.98 3758903.93	0.09134	449402.85
119106 72 3758903 93	0 08582	119110 59
3758903.93 0.08321	0.00002	++>+10.55
449414.46 3758903.93	0.08071	449418.33
3758903.93 0.07834	=	
449422.20 3758903.93	0.07609	449426.07
3758903.93 0.07394		
3758917.97 0.08120 449418.33 3758917.97	0.07891	449422.20
---	---------------------------------------	-----------------
449410.59 3758917.97	0.08355	449414.46
449402.85 3758917.97 4758917.97 449402.85	0.08861	449406.72
X-COORD (M) Y-COORD (M) Y-COORD (M) CONC	CONC X	X-COORD (M)
**	** CONC OF TOGGAS IN MICRC	OGRAMS/M**3
***	*** DISCREIE CARIESIAN	KECEPIUR POINTS
و		
, L0000201 , L0000202 , L0000203 L0000204 , L0000205	s , 5 , L0000206 , L0000207	, L0000208
, L0000193 , L0000194 , L0000195 L0000196 , L0000197	, , L0000198 , L0000199	, L0000200
L0000185 , L0000186 , L0000187 L0000188 , L0000189	, , , , , , , , , , , , , , , , , , ,	, L0000192
INCLU	JDING SOURCE(S): L0000183	, L0000184
*** THE ANNUAL AVERA	AGE CONCENTRATION VALUES AV	ERAGED OVER 5
PAGE *** MODELOPTs: RegDFAULT CONC ELE	E 15 EV URBAN ADJ_U*	
*** 11:2	24:07	
HRA\TOGGAS\TOGGAS.ISC *** AERMET - VERSION 16216 *** ***	*** 11/11/21	
3758917.97 0.09141 ★ *** AERMOD - VERSION 19191 *** ***	* C:\LAKES\AERMOD VIEW\14172	
3758917.97 0.09732 449395.11 3758917.97	0.09420	449398.98
3758917.97 0.10390 449387.37 3758917.97	0.10041	449391.24
3758917.97         0.11141           449379.63         3758917.97	0.10733	449383.50
3758917.97         0.12059           449371.89         3758917.97	0.11582	449375.76
3/58903.93 0.06639 449445.42 3758903.93	0.06483	449368.02
3/58903.93 0.06996 449437.68 3758903.93	0.06810	449441.55
449429.94 3758903.93	0.07190	449433.81

3758917.97 0.07663

449426.07 3758917.97 0.07445

449429.94

3758917.97 0.07235		
449433.81 3758917.97	0.07036	449437.68
3758917.97 0.06845		
449441.55 3758917.97	0.06672	449445.42
3758917.97 0.06514		
449368.02 3758932.01	0.12001	449371.89
3758932.01 0.11524		
449375.76 3758932.01	0.11083	449379.63
3758932.01 0.10675		
449383.50 3758932.01	0.10317	449387.37
3758932.01 0.10009		
449391.24 3758932.01	0.09688	449395.11
3758932.01 0.09407		
449398.98 3758932.01	0.09118	449402.85
3758932.01 0.08861		
449406.72 3758932.01	0.08600	449410.59
3758932.01 0.08368		
449414.46 3758932.01	0.08140	449418.33
3758932.01 0.07907		
449422.20 3758932.01	0.07692	449426.07
3758932.01 0.07483		
449429.94 3758932.01	0.07273	449433.81
3758932.01 0.07071		
449437.68 3758932.01	0.06878	449441.55
3758932.01 0.06702		
449445.42 3758932.01	0.06541	449368.02
3758946.05 0.11948		
449371.89 3758946.05	0.11472	449375.76
3758946.05 0.11033		
449379.63 3758946.05	0.10627	449383.50
3758946.05 0.10311		
449387.37 3758946.05	0.09977	449391.24
3758946.05 0.09689		
449395.11 3758946.05	0.09389	449398.98
3758946.05 0.09125		
449402.85 3758946.05	0.08853	449406.72
3758946.05 0.08612		
449410.59 3758946.05	0.08365	449414.46
3758946.05 0.08144		
449418.33 3758946.05	0.07927	449422.20
3758946.05 0.07705		
449426.07 3758946.05	0.07500	449429.94
3758946.05 0.07300		
449433.81 3758946.05	0.07100	449437.68
3758946.05 0.06907		
449441.55 3758946.05	0.06729	449445.42
3758946.05 0.06563		
449368.02 3758960.09	0.11898	449371.89
3758960.09 0.11424		
449375.76 3758960.09	0.10986	449379.63

3758960.09 0.10581		
449383.50 3758960.09	0.10275	449387.37
3758960.09 0.09943		
449391.24 3758960.09	0.09663	449395.11
3758960.09 0.09364		
449398.98 3758960.09	0.09107	449402.85
3/58960.09 0.08838		
449406.72 3758960.09	0.08602	449410.59
3758960.09 0.08358		
449414.46 3758960.09	0.08141	449418.33
3758960.09 0.07930		
449422.20 3758960.09	0.07712	449426.07
3758960.09 0.07512		
449429.94 3758960.09	0.07316	449433.81
3758960.09 0.07125		
449437.68 3758960.09	0.06933	449441.55
3758960.09 0.06753		
449445.42 3758960.09	0.06583	449368.02
3758974.13 0.11948		
449371.89 3758974.13	0.11471	449375.76
3758974.13 0.11030		
449379.63 3758974.13	0.10623	449383.50
3758974.13 0.10304		
★ *** AERMOD - VERSION 19191 ***	*** C:\LAKES\AERMOD VIEW\14172	
HRA\TOGGAS\TOGGAS.ISC	*** 11/11/21	
*** AERMET - VERSION 16216 ***	***	
***	11:24:07	

## PAGE 16

*** MODELOPTs:	RegDFAULT	CONC ELEV	URBAN ADJ_U*			
	*** THE AN	NUAL AVERAGE	CONCENTRATION	VALUES AVE	RAGED OVER 5	
YEARS FOR SOURCE	GROUP: ALL	***				
		INCLUDI	NG SOURCE(S):	L0000183	, L0000184	
,L0000185 ,	L0000186	, L0000187	ر			
	L0000188	, L0000189	, L0000190	, L0000191	, L0000192	
, L0000193 ,	L0000194	, L0000195	ر			
	L0000196	, L0000197	, L0000198	, L0000199	, L0000200	
, L0000201 ,	L0000202	, L0000203	ر			
	L0000204	, L0000205	, L0000206	, L0000207	, L0000208	

## \*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

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\*\* CONC OF TOGGAS IN MICROGRAMS/M\*\*3

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X-COORD (M) Y-COORD (M) CONC X-COORD (M) Y-COORD (M) CONC

		440201 24
449387.37 3758974.13	0.09964	449391.24
<i>1/</i> 10305 11 375807/ 13	0 09371	119398 98
3758974 13 0 09089	0.05574	449598.98
<i>AA9A02</i> 85 3758974 13	0 08843	449406 72
3758974 13 0 08587	0.00045	
<i>449410</i> 59 3758974 13	0 08345	449414 46
3758974.13 0.08133	0.00015	119121.10
449418.33 3758974.13	0.07927	449422.20
3758974.13 0.07726		
449426.07 3758974.13	0.07518	449429.94
3758974.13 0.07326		
449433.81 3758974.13	0.07139	449437.68
3758974.13 0.06957		
449441.55 3758974.13	0.06775	449445.42
3758974.13 0.06602		
449368.02 3758988.17	0.11987	449371.89
3758988.17 0.11508		
449375.76 3758988.17	0.11065	449379.63
3758988.17 0.10655		
449383.50 3758988.17	0.10326	449387.37
3758988.17 0.09981		
449391.24 3758988.17	0.09657	449395.11
3/58988.1/ 0.09352	0,00005	440400 05
449398.98 3758988.17	0.09095	449402.85
3/58988.1/ 0.08824 440406 72 5759089 17	0 00567	440410 50
449400.72 5750988.17 2750090 17 0 00270	0.000/	449410.59
<i>1/9/11/ 16</i> 3758988 17	0 08121	1/9/18 33
3758988 17 0 07919	0.00121	++)+10.55
<u>449422 20 3758988 17</u>	0 07723	449426 07
3758988.17 0.07518	0.07725	++9+20:07
449429.94 3758988.17	0.07332	449433.81
3758988.17 0.07148		
449437.68 3758988.17	0.06969	449441.55
3758988.17 0.06788		
449445.42 3758988.17	0.06620	449368.02
3759002.21 0.11916		
449371.89 3759002.21	0.11439	449375.76
3759002.21 0.10998		
449379.63 3759002.21	0.10591	449383.50
3759002.21 0.10282		
449387.37 3759002.21	0.09944	449391.24
3759002.21 0.09662	0.000.00	
449395.11 3759002.21	0.09362	449398.98
3/59002.21 0.090/8	0,00005	440406 73
449402.85 3/59002.21	0.08836	449406.72
1022010 1722002.21 0.00201		

449410.59 3759002.21	0.08360	449414.46
3759002.21 0.08129		
449418.33 3759002.21	0.07926	449422.20
3759002.21 0.07714		
449426.07 3759002.21	0.07525	449429.94
3759002.21 0.07340		
449433.81 3759002.21	0.07150	449437.68
3759002.21 0.06977		
449441.55 3759002.21	0.06798	449445.42
3759002.21 0.06632	0.44000	
449368.02 3759016.25	0.11893	4493/1.89
3/59016.25 0.11418	0.10000	440370 63
449375.76 3759016.25	0.10980	4493/9.63
3/59016.25 0.105/4	0 10000	440207 27
	0.10220	449587.57
440201 24 27E0016 2E	0.00621	44020E 11
449591.24 5759010.25 3750016 25 0 00360	15050.0	449595.11
AA9398 98 3759016 25	0 09089	119102 85
3759016.25 0.08822	0.09009	+
449406 72 3759016 25	0,08592	449410.59
3759016.25 0.08350	0.00332	119110.99
449414.46 3759016.25	0.08136	449418.33
3759016.25 0.07915		
449422.20 3759016.25	0.07719	449426.07
3759016.25 0.07516		
449429.94 3759016.25	0.07336	449433.81
3759016.25 0.07148		
449437.68 3759016.25	0.06980	449441.55
3759016.25 0.06814		
449445.42 3759016.25	0.06641	449368.02
3759030.29 0.12009		
★ *** AERMOD - VERSION 19191 ***	*** C:\LAKES\AERMOD VIEW\14172	
HRA\TOGGAS\TOGGAS.ISC	*** 11/11/21	
*** AERMET - VERSION 16216 ***	***	
***	11:24:07	

PAGE 17 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

	*** THE ANNU	JAL AVERAGE (	CONCENTRATION	VALUES AVERA	AGED OVER 5
YEARS FOR SOURCE	GROUP: ALL	***			
		INCLUDING	G SOURCE(S):	L0000183	, L0000184
, L0000185 ,	L0000186 ,	L0000187	ر		
	L0000188 ,	L0000189	, L0000190	, L0000191	, L0000192
, L0000193 ,	L0000194 ,	L0000195	ر		
	L0000196 ,	L0000197	, L0000198	, L0000199	, L0000200
,L0000201 ,	L0000202 ,	L0000203	ر		
	L0000204 ,	L0000205	, L0000206	, L0000207	, L0000208

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## \*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\* CONC OF TOGGAS IN MICROGRAMS/M\*\*3

**
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X-COORD (M) Y-COORD (M) Y-COORD (M) CONC	CONC	X-COORD (M)
449371.89 3759030.29	0.11526	449375.76
3759030.29 0.11080		
449379.63 3759030.29	0.10668	449383.50
3759030.29 0.10348		
449387.37 3759030.29	0.10009	449391.24
3759030.29 0.09717		
449395.11 3759030.29	0.09413	449398.98
3759030.29 0.09147		
449402.85 3759030.29	0.08871	449406.72
3759030.29 0.08628		
449410.59 3759030.29	0.08378	449414.46
3759030.29 0.08158		
449418.33 3759030.29	0.07933	449422.20
3759030.29 0.07718		
449426.07 3759030.29	0.07526	449429.94
3759030.29 0.07331		
449433.81 3759030.29	0.07154	449437.68
3759030.29 0.06975		
449441.55 3759030.29	0.06808	449445.42
3759030.29 0.06634		
449368.02 3759044.33	0.12140	449371.89
3759044.33 0.11650		
449375.76 3759044.33	0.11197	449379.63
3759044.33 0.10780		
449383.50 3759044.33	0.10436	449387.37
3759044.33 0.10084		
449391.24 3759044.33	0.09774	449395.11
3759044.33 0.09459		
449398.98 3759044.33	0.09179	449402.85
3759044.33 0.08897		
449406.72 3759044.33	0.08645	449410.59
3759044.33 0.08391		
449414.46 3759044.33	0.08152	449418.33
3759044.33 0.07937		
449422.20 3759044.33	0.07722	449426.07
3759044.33 0.07517		
449429.94 3759044.33	0.07332	449433.81
3759044.33 0.07146		
449437.68 3759044.33	0.06968	449441.55

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3759044.33 0.06801	
449445.42 3759044.33 0.06626	
★ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\1417 HRA\TOGGAS\TOGGAS.ISC *** 11/11/21 *** AERMET - VERSION 16216 *** *** *** 11:24:07	72
PAGE 18 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*	
*** THE 1ST HIGHEST 1-HR AVERAGE	E CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***	
. L0000185 . L0000186 . L0000187 .	, L000164
L0000188 , L0000189 , L0000190 , L00001	191 , L0000192
, L0000193 , L0000194 , L0000195 ,	
. L0000201 . L0000202 . L0000203 .	199 , 10000200
L0000204 , L0000205 , L0000206 , L00002	207 , L0000208
۶	
*** DISCRETE CARTES	TAN RECEPTOR POINTS
***	
** CONC OF TOGGAS TN MI	
**	ICROGRAMS/M**3
**	ICROGRAMS/M**3
** X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)	ICROGRAMS/M**3 X-COORD (M)
** X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) Y-COORD (M) CONC (YYMMDDHH)	ICROGRAMS/M**3 X-COORD (M)
** X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) Y-COORD (M) CONC (YYMMDDHH)	ICROGRAMS/M**3 X-COORD (M)
** X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) Y-COORD (M) CONC (YYMMDDHH) 449368.02 3758763.53 0.28794 (13112916)	ICROGRAMS/M**3 X-COORD (M) 449371.89
** X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) Y-COORD (M) CONC (YYMMDDHH) 449368.02 3758763.53 0.28794 (13112916) 3758763.53 0.27232 (13062606)	ICROGRAMS/M**3 X-COORD (M) 449371.89
** X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) Y-COORD (M) CONC (YYMMDDHH) 449368.02 3758763.53 0.28794 (13112916) 3758763.53 0.27232 (13062606) 449375.76 3758763.53 0.26122 (13062606)	ICROGRAMS/M**3 X-COORD (M)  449371.89 449379.63
** X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) Y-COORD (M) CONC (YYMMDDHH) 449368.02 3758763.53 0.28794 (13112916) 3758763.53 0.27232 (13062606) 449375.76 3758763.53 0.26122 (13062606) 3758763.53 0.25095 (13062606) 449383 50 3758763 53 0.24155 (13062606)	ICROGRAMS/M**3 X-COORD (M) 449371.89 449379.63 449387 37
** X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) Y-COORD (M) CONC (YYMMDDHH) 449368.02 3758763.53 0.28794 (13112916) 3758763.53 0.27232 (13062606) 449375.76 3758763.53 0.26122 (13062606) 3758763.53 0.25095 (13062606) 449383.50 3758763.53 0.24155 (13062606) 3758763.53 0.23281 (13062606)	ICROGRAMS/M**3 X-COORD (M)  449371.89 449379.63 449387.37
** X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) Y-COORD (M) CONC (YYMMDDHH) 449368.02 3758763.53 0.28794 (13112916) 3758763.53 0.27232 (13062606) 449375.76 3758763.53 0.26122 (13062606) 3758763.53 0.25095 (13062606) 449383.50 3758763.53 0.24155 (13062606) 3758763.53 0.23281 (13062606) 449391.24 3758763.53 0.22466 (13062606)	ICROGRAMS/M**3 X-COORD (M) 449371.89 449379.63 449387.37 449395.11
** X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) Y-COORD (M) CONC (YYMMDDHH) 449368.02 3758763.53 0.28794 (13112916) 3758763.53 0.27232 (13062606) 449375.76 3758763.53 0.26122 (13062606) 3758763.53 0.25095 (13062606) 449383.50 3758763.53 0.24155 (13062606) 3758763.53 0.23281 (13062606) 449391.24 3758763.53 0.22466 (13062606) 3758763.53 0.21704 (13062606) 449390 08 08 3758763.53 0.20000 (13062606)	LCROGRAMS/M**3 X-COORD (M) 449371.89 449379.63 449387.37 449395.11
** X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) Y-COORD (M) CONC (YYMMDDHH) 449368.02 3758763.53 0.28794 (13112916) 3758763.53 0.27232 (13062606) 449375.76 3758763.53 0.26122 (13062606) 3758763.53 0.25095 (13062606) 449383.50 3758763.53 0.24155 (13062606) 3758763.53 0.23281 (13062606) 449391.24 3758763.53 0.22466 (13062606) 3758763.53 0.21704 (13062606) 449398.98 3758763.53 0.20989 (13062606) 3758763.53 0.20318 (13062606)	ICROGRAMS/M**3 X-COORD (M) 449371.89 449379.63 449387.37 449395.11 449402.85
** X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) Y-COORD (M) CONC (YYMMDDHH) 449368.02 3758763.53 0.28794 (13112916) 3758763.53 0.27232 (13062606) 449375.76 3758763.53 0.26122 (13062606) 3758763.53 0.25095 (13062606) 449383.50 3758763.53 0.24155 (13062606) 3758763.53 0.23281 (13062606) 449391.24 3758763.53 0.22466 (13062606) 3758763.53 0.21704 (13062606) 449398.98 3758763.53 0.20989 (13062606) 3758763.53 0.20318 (13062606) 449406.72 3758763.53 0.19687 (13062606)	LCROGRAMS/M**3 X-COORD (M) 449371.89 449379.63 449387.37 449395.11 449402.85 449410.59
** X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) Y-COORD (M) CONC (YYMMDDHH) 449368.02 3758763.53 0.28794 (13112916) 3758763.53 0.27232 (13062606) 449375.76 3758763.53 0.26122 (13062606) 3758763.53 0.25095 (13062606) 449383.50 3758763.53 0.24155 (13062606) 3758763.53 0.23281 (13062606) 449391.24 3758763.53 0.22466 (13062606) 3758763.53 0.21704 (13062606) 449398.98 3758763.53 0.20989 (13062606) 3758763.53 0.20318 (13062606) 449406.72 3758763.53 0.19687 (13062606) 3758763.53 0.19095 (13062606)	ICROGRAMS/M**3 X-COORD (M) 449371.89 449379.63 449387.37 449395.11 449402.85 449410.59
** X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) Y-COORD (M) CONC (YYMMDDHH) 449368.02 3758763.53 0.28794 (13112916) 3758763.53 0.27232 (13062606) 449375.76 3758763.53 0.26122 (13062606) 3758763.53 0.25095 (13062606) 449383.50 3758763.53 0.24155 (13062606) 3758763.53 0.23281 (13062606) 449391.24 3758763.53 0.22466 (13062606) 3758763.53 0.21704 (13062606) 449398.98 3758763.53 0.20989 (13062606) 3758763.53 0.20318 (13062606) 449406.72 3758763.53 0.19687 (13062606) 3758763.53 0.19095 (13062606) 449414.46 3758763.53 0.18541 (13062606)	LCROGRAMS/M**3 X-COORD (M) 449371.89 449379.63 449387.37 449395.11 449402.85 449410.59 449418.33
** X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) Y-COORD (M) CONC (YYMMDDHH) 	ICROGRAMS/M**3 X-COORD (M) 449371.89 449379.63 449387.37 449395.11 449402.85 449410.59 449418.33 449426 07
** X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) Y-COORD (M) CONC (YYMMDDHH) 449368.02 3758763.53 0.28794 (13112916) 3758763.53 0.27232 (13062606) 449375.76 3758763.53 0.26122 (13062606) 3758763.53 0.25095 (13062606) 449383.50 3758763.53 0.24155 (13062606) 3758763.53 0.23281 (13062606) 449391.24 3758763.53 0.22466 (13062606) 3758763.53 0.21704 (13062606) 449398.98 3758763.53 0.20989 (13062606) 3758763.53 0.20318 (13062606) 449406.72 3758763.53 0.19687 (13062606) 3758763.53 0.19095 (13062606) 449414.46 3758763.53 0.18541 (13062606) 3758763.53 0.18017 (13062606) 49422.20 3758763.53 0.17519 (13062606) 3758763.53 0.17047 (13062606)	LCROGRAMS/M**3 X-COORD (M) 449371.89 449379.63 449387.37 449395.11 449402.85 449410.59 449418.33 449426.07
** X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) Y-COORD (M) CONC (YYMMDDHH) 449368.02 3758763.53 0.28794 (13112916) 3758763.53 0.27232 (13062606) 449375.76 3758763.53 0.26122 (13062606) 3758763.53 0.25095 (13062606) 449383.50 3758763.53 0.24155 (13062606) 3758763.53 0.23281 (13062606) 449391.24 3758763.53 0.22466 (13062606) 3758763.53 0.21704 (13062606) 449398.98 3758763.53 0.20989 (13062606) 3758763.53 0.20318 (13062606) 449406.72 3758763.53 0.19687 (13062606) 3758763.53 0.19095 (13062606) 449414.46 3758763.53 0.18541 (13062606) 3758763.53 0.18017 (13062606) 449422.20 3758763.53 0.17519 (13062606) 3758763.53 0.17047 (13062606) 449429.94 3758763.53 0.16598 (13062606)	ICROGRAMS/M**3 X-COORD (M) 449371.89 449379.63 449387.37 449395.11 449402.85 449410.59 449418.33 449426.07 449433.81

449437.68	3758763.53	0.15762	(13062606)	449441.55
3758763.53	0.15376 (13062606)	)		
449445.42	3758763.53	0.15007	(13062606)	449368.02
3758777.57	0.28824 (13112916)	)		
449371.89	3758777.57	0.27300	(13062606)	449375.76
3758777.57	0.26176 (13062606)	)		
449379.63	3758777.57	0.25136	(13062606)	449383.50
3758777.57	0.24194 (13062606)	)		
449387.37	3758777.57	0.23319	(13062606)	449391.24
3758777.57	0.22504 (13062606)	)		
449395.11	3758777.57	0.21741	(13062606)	449398.98
3758777.57	0.21026 (13062606)	)		
449402.85	3758777.57	0.20354	(13062606)	449406.72
3758777.57	0.19722 (13062606)	)	/ · · · · · · · · · · · · · · · · · · ·	
449410.59	3758777.57	0.19129	(13062606)	449414.46
3758777.57	0.18577 (13062606)	)	(	
449418.33	3758777.57	0.18053	(13062606)	449422.20
3758777.57	0.17556 (13062606)	)	(1225222)	
449426.07	3/58///.5/	0.1/085	(13062606)	449429.94
3/58///.5/	0.16636 (13062606)	)	(12062606)	440427 60
449433.81	3/58///.5/	0.16208	(13062606)	449437.68
3/58///.5/	0.15801 (13062606)	)	(12052505)	440445 42
449441.55	3/58///.5/	0.15415	(13062606)	449445.42
3/58///.5/		)	(12112010)	440271 80
449308.02	3/58/91.01	0.28942	(13112916)	449371.89
3/30/91.01 440275 76	2759701 61	0 26201	(12062606)	440270 62
4495/5./0	0 25252 (12062606)	0.20204	(15002000)	449579.05
1/0202 50	2759701 61	0 21200	(12062606)	110207 27
3758791 61	0 23/30 (13062606)	0.24505	(19802080)	449507.57
<i>AA</i> 9391 2 <i>A</i>	3758791 61	/ 0 22611	(13062606)	119395 11
3758791 61	0 21847 (13062606)	)	(19002000)	
1/9398 98	3758791 61	/ 0 21129	(13062606)	119102 85
3758791.61	0,20456 (13062606)	)	(19002000)	449402.09
449406.72	3758791.61	, 0.19821	(13062606)	449410.59
3758791.61	0.19226 (13062606)	)	(19002000)	119 120 199
449414.46	3758791.61	, 0.18671	(13062606)	449418.33
3758791.61	0.18145 (13062606)	)	(	
449422.20	3758791.61	, 0.17647	(13062606)	449426.07
3758791.61	0.17173 (13062606)	)		
449429.94	3758791.61	0.16722	(13062606)	449433.81
3758791.61	0.16293 (13062606)	)		
449437.68	3758791.61	0.15883	(13062606)	449441.55
3758791.61	0.15494 (13062606)	)		
449445.42	3758791.61	0.15124	(13062606)	449368.02
3758805.65	0.29020 (13112916)	)		
449371.89	3758805.65	0.27494	(13062606)	449375.76
3758805.65	0.26386 (13062606)	)	-	
449379.63	3758805.65	0.25363	(13062606)	449383.50
3758805.65	0.24416 (13062606)	)		

449387.37 3758805.65 0.23534 (13062606) 449391.24 3758805.65 0.22713 (13062606) 449395.11 3758805.65 0.21945 (13062606) 449398.98 3758805.65 0.21226 (13062606) 449402.85 3758805.65 449406.72 0.20550 (13062606) 3758805.65 0.19914 (13062606) 449410.59 3758805.65 0.19317 (13062606) 449414.46 3758805.65 0.18759 (13062606) 0.18231 (13062606) 449418.33 3758805.65 449422.20 0.17730 (13062606) 3758805.65 449426.07 3758805.65 0.17254 (13062606) 449429.94 3758805.65 0.16803 (13062606) ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 \*\*\* 11/11/21 HRA\TOGGAS\TOGGAS.ISC \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* \*\*\* 11:24:07

### PAGE 19 RegDFAULT CONC ELEV URBAN ADJ U\*

VAL	UES FOR	SOURCE	GROUP:	ALL	***	THE ***	1ST	HIGHEST	1-HR	AVERAGE	CONCEN	TRATION
						INCLU	DING	SOURCE(S)	):	L000018	33,	L0000184
,	L0000185	,	L0000186	ر	L0	000187	L.					
			L0000188	ر	L0	000189	L.	L0000190	3	, L000019	<i>)</i> 1,	L0000192
,	L0000193	,	L0000194	ر	L0	000195	L.					
			L0000196	ر	L0	000197	L.	L0000198	3	, L000019	99,	L0000200
,	L0000201	,	L0000202	ر	L0	000203	L.					
			L0000204	ر	L0	000205	ر	L0000200	5	, L000020	ð7,	L0000208

#### **\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS**

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\*\*\* MODELOPTs:

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\*\* CONC OF TOGGAS IN MICROGRAMS/M\*\*3

X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) - - - - - -- - - - - -449433.81 3758805.65 0.16372 (13062606) 449437.68 3758805.65 0.15961 (13062606) 0.15568 (13062606) 449441.55 3758805.65 449445.42 3758805.65 0.15193 (13062606) 449368.02 3758819.69 0.29061 (13112916) 449371.89 3758819.69 0.27562 (13062606) 449375.76 3758819.69 0.26453 (13062606) 449379.63 3758819.69 0.25427 (13062606) 449383.50 3758819.69 0.24477 (13062606) 449387.37

3758819.69	0.23594 (13062606	5)		
449391.24	3758819.69	0.22771	(13062606)	449395.11
3758819.69	0.22002 (13062606	5)		
449398.98	3758819.69	0.21281	(13062606)	449402.85
3758819.69	0.20604 (13062606	5)		
449406.72	3758819.69	0.19967	(13062606)	449410.59
3758819.69	0.19369 (13062606	5)		
449414.46	3758819.69	0.18810	(13062606)	449418.33
3758819.69	0.18281 (13062606	5)		
449422.20	3758819.69	0.17780	(13062606)	449426.07
3758819.69	0.17304 (13062606	5)		
449429.94	3758819.69	0.16851	(13062606)	449433.81
3758819.69	0.16420 (13062606	5)		
449437.68	3758819.69	0.16008	(13062606)	449441.55
3758819.69	0.15615 (13062606	5)		
449445.42	3758819.69	0.15239	(13062606)	449368.02
3758833.73	0.29111 (13112916	5)		
449371.89	3758833.73	0.27623	(13062606)	449375.76
3758833.73	0.26511 (13062606	5)		
449379.63	3758833.73	0.25484	(13062606)	449383.50
3758833.73	0.24532 (13062606	5)		
449387.37	3758833.73	0.23647	(13062606)	449391.24
3758833.73	0.22822 (13062606	5)		
449395.11	3758833.73	0.22052	(13062606)	449398.98
3758833.73	0.21330 (13062606	5)		
449402.85	3758833.73	0.20652	(13062606)	449406.72
3758833.73	0.20013 (13062606	5)		
449410.59	3758833.73	0.19414	(13062606)	449414.46
3758833.73	0.18855 (13062606	5)		
449418.33	3758833.73	0.18325	(13062606)	449422.20
3758833.73	0.17823 (13062606	5)		
449426.07	3758833.73	0.17347	(13062606)	449429.94
3758833.73	0.16894 (13062606	5)		
449433.81	3758833.73	0.16462	(13062606)	449437.68
3758833.73	0.16050 (13062606	5)		
449441.55	3758833.73	0.15656	(13062606)	449445.42
3758833.73	0.15280 (13062606	5)		
449368.02	3758847.77	0.29380	(13112916)	449371.89
3758847.77	0.27772 (13112916	5)		
449375.76	3758847.77	0.26630	(13062606)	449379.63
3758847.77	0.25603 (13062606	5)		
449383.50	3758847.77	0.24648	(13062606)	449387.37
3758847.77	0.23761 (13062606	5)		
449391.24	3758847.77	0.22934	(13062606)	449395.11
3758847.77	0.22160 (13062606	5)		
449398.98	3758847.77	0.21435	(13062606)	449402.85
3758847.77	0.20754 (13062606	5)		
449406.72	3758847.77	0.20114	(13062606)	449410.59
3758847.77	0.19511 (13062606	5)		
449414.46	3758847.77	0.18945	(13062606)	449418.33

3758847.77 0.18411 (13062606) 449422.20 3758847.77 0.17903 (13062606)449426.07 0.17421 (13062606) 3758847.77 449429.94 3758847.77 0.16963 449433.81 (13062606)3758847.77 0.16526 (13062606) 449437.68 3758847.77 0.16110 (13062606)449441.55 3758847.77 0.15714 (13062606) 449445.42 3758847.77 0.15337 (13062606)449368.02 3758861.81 0.29708 (13112916) 449371.89 3758861.81 0.28117 (13112916)449375.76 3758861.81 0.26740 (13062606) 449379.63 3758861.81 0.25716 449383.50 (13062606)3758861.81 0.24761 (13062606)449387.37 3758861.81 0.23872 (13062606)449391.24 3758861.81 0.23043 (13062606) 449398.98 449395.11 3758861.81 0.22268 (13062606)3758861.81 0.21541 (13062606) 449402.85 3758861.81 0.20858 449406.72 (13062606)(13062606) 3758861.81 0.20216 449410.59 3758861.81 0.19610 (13062606)449414.46 3758861.81 0.19038 (13062606) ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 \*\*\* HRA\TOGGAS\TOGGAS.ISC 11/11/21 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* \*\*\* 11:24:07 PAGE 20 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ U\* \*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION \*\*\* VALUES FOR SOURCE GROUP: ALL TNCLUDING SOURCE(S). 10000183 10000184

					INCLOD			L0000103	ر	L000010+
ر	L0000185	, L	.0000186	ر	L0000187	ر				
		L	.0000188	ر	L0000189	, L0000190	,	L0000191	,	L0000192
ر	L0000193	, L	.0000194	ر	L0000195	ر				
		L	.0000196	ر	L0000197	, L0000198	,	L0000199	,	L0000200
ر	L0000201	, L	_0000202	ر	L0000203	ر				
		L	_0000204	,	L0000205	, L0000206	ر	L0000207	,	L0000208

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### \*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

IN MICROGRAMS/M\*\*3

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X-COORD (M)	Y-COORD	(M)	CONC	(YYMMDDHH)			X-C	oori	) (	M)
Y-COORD (M)	CONC	(YYMMDDHH)								
					 	-		-		-

\*\* CONC OF TOGGAS

449418.33	3758861.81	0.18497	(13062606)	449422.20
3758861.81	0.17984 (13062606	)		
449426.07	3758861.81	0.17497	(13062606)	449429.94
3758861.81	0.17033 (13062606	)		
449433.81	3758861.81	0.16592	(13062606)	449437.68
3758861.81	0.16171 (13062606	)		
449441.55	3758861.81	0.15772	(13062606)	449445.42
3758861.81	0.15394 (13062606	)		
449368.02	3758875.85	0.29832	(13112916)	449371.89
3758875.85	0.28273 (13112916	)		
449375.76	3758875.85	0.26838	(13112916)	449379.63
3758875.85	0.25790 (13062606	)		
449383.50	3758875.85	0.24837	(13062606)	449387.37
3758875.85	0.23948 (13062606	)		
449391.24	3758875.85	0.23120	(13062606)	449395.11
3758875.85	0.22343 (13062606	)		
449398.98	3758875.85	0.21616	(13062606)	449402.85
3758875.85	0.20932 (13062606	)		
449406.72	3758875.85	0.20288	(13062606)	449410.59
3758875.85	0.19680 (13062606	)		
449414.46	3758875.85	0.19106	(13062606)	449418.33
3758875.85	0.18563 (13062606	)		
449422.20	3758875.85	0.18048	(13062606)	449426.07
3758875.85	0.17558 (13062606	)		
449429.94	3758875.85	0.17092	(13062606)	449433.81
3758875.85	0.16649 (13062606	)		
449437.68	3758875.85	0.16226	(13062606)	449441.55
3758875.85	0.15826 (13062606	)		
449445.42	3758875.85	0.15446	(13062606)	449368.02
3758889.89	0.29872 (13112916	)	(	
449371.89	3758889.89	0.28306	(13112916)	449375.76
3/58889.89	0.268/9 (13112916	)	(	
449379.63	3758889.89	0.25851	(13062606)	449383.50
3/58889.89	0.24899 (13062606	)	(12062606)	440204 24
449387.37	3/58889.89	0.24010	(13062606)	449391.24
3/58889.89	0.23181 (13062606	)	(12062606)	
449395.11	3/58889.89	0.22404	(13062606)	449398.98
3/58889.89	0.216/6 (13062606	)	(12062606)	440406 70
449402.85	3/58889.89	0.20991	(13062606)	449406.72
3/58889.89	0.20346 (13062606	)	(12062606)	440414 46
449410.59	3/58889.89	, 0.19/38	(13062606)	449414.46
3/58889.89	0.19162 (13062606	)	(12062606)	440422 20
449418.33	3/58889.89	0.18018	(13062606)	449422.20
3/58889.89	0.18102 (13062606	)	(12062606)	440420 04
449420.07	3/58889.89	0.1/011	(13062606)	449429.94
2/3000100 10 CC1011	U.1/144 (13062606	)	(12062606)	110127 60
449433.81	5/50007.07 0 16376 /13063606	A.TO\00	(12002000)	449437.08
J/J0007.07 //0//1 FF	0.102/0 (13002000 2750000 00	/ 0 15075	(12062606)	110115 12
447441.55	3/30003.03 0 15/05 /13063606	/0.T20/2	(13002000)	443443.42
21000110	0,13433 (13002000	)		

449368.02	3758903.93	0.29792	(13112916)	449371.89
3758903.93	0.28244 (13112	.916)		
449375.76	3758903.93	0.26929	(13062606)	449379.63
3758903.93	0.25903 (13062	2606)		
449383.50	3758903.93	0.24953	(13062606)	449387.37
3758903.93	0.24067 (13062	2606)		
449391.24	3758903.93	0.23240	(13062606)	449395.11
3758903.93	0.22465 (13062	2606)		
449398.98	3758903.93	0.21738	(13062606)	449402.85
3758903.93	0.21054 (13062	2606)		
449406.72	3758903.93	0.20409	(13062606)	449410.59
3758903.93	0.19800 (13062	2606)		
449414.46	3758903.93	0.19222	(13062606)	449418.33
3758903.93	0.18676 (13062	2606)		
449422.20	3758903.93	0.18157	(13062606)	449426.07
3758903.93	0.17664 (13062	2606)		
449429.94	3758903.93	0.17196	(13062606)	449433.81
3758903.93	0.16749 (13062	2606)		
449437.68	3758903.93	0.16323	(13062606)	449441.55
3758903.93	0.15920 (13062	2606)		
449445.42	3758903.93	0.15538	(13062606)	449368.02
3758917.97	0.29711 (13112	.916)		
449371.89	3758917.97	0.28154	(13112916)	449375.76
3758917.97	0.26962 (13062	2606)		
449379.63	3758917.97	0.25936	(13062606)	449383.50
3758917.97	0.24990 (13062	2606)		
449387.37	3758917.97	0.24107	(13062606)	449391.24
3758917.97	0.23285 (13062	2606)		
449395.11	3758917.97	0.22513	(13062606)	449398.98
3758917.97	0.21789 (13062	2606)		
★ *** AERMOD - VER	SION 19191 ***	*** C:\LAK	ES\AERMOD VIEW\14172	2
HRA\TOGGAS\TOGGAS.	ISC	***	11/11/21	
*** AERMET - VERS	ION 16216 ***	***		
	***	11:24:07		

PAGE 21 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

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						***	THE	1ST	HIGHEST	1-HR	AVERAGE	CONCEN	TRATION
VA	LUES	FOR	SOURC	E GROUP:	ALL		*** TNCLU	DTNG	SOURCE	5).	1 99991	22	1 0000184
ر	L000	0185	ر	L0000186	ر	L0(	000187	,	,	5).	LUUUUI	,	20000104
				L0000188	,	L00	000189	ر	, L00001	90	, L000019	)1 ,	L0000192
ر	L000	0193	ر	L0000194	,	L00	000195	ر	,				
				L0000196	ر	L00	000197	ر	, L000019	98	, L000019	99,	L0000200
ر	L000	0201	ر .	L0000202 L0000204	د د	L00 L00	000203 000205	נ נ	, , L000020	06	, L000020	97,	L0000208

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

# \*\* CONC OF TOGGAS IN MICROGRAMS/M\*\*3

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X-COORD (M) Y-COORD (M)	Y-COORD (M) CONC (YYMMD	CONC DHH)	(YYMMDDHH)	X-COORD (M)
449402.85	3/5891/.9/	0.21108	(13062606)	449406./2
3/5891/.9/	0.20465 (13062	606)	(12062606)	440414 46
449410.59	3/5891/.9/	0.1985/	(13062606)	449414.46
3/3891/.9/	0.19280 (13062	(000) CCT01 A	(12062606)	440422 20
449410.33 2750017 07	0 10011 (12060	606)	(13002000)	449422.20
1/10/26 07	3758917 97	0 17716	(13062606)	119129 91
3758917 97	0 17244 (13062	606)	(15002000)	++)+2).)+
449433 81	3758917 97	0 16794	(13062606)	449437 68
3758917.97	0.16365 (13062	606)	(19002000)	++>+>).00
449441.55	3758917.97	0.15960	(13062606)	449445,42
3758917.97	0.15577 (13062	606)	(19002000)	
449368.02	3758932.01	0.29682	(13112916)	449371.89
3758932.01	0.28115 (13112	916)	()	
449375.76	3758932.01	0.26988	(13062606)	449379.63
3758932.01	0.25960 (13062	606)	(	
449383.50	3758932.01	0.25014	(13062606)	449387.37
3758932.01	0.24136 (13062	606)	· · ·	
449391.24	3758932.01	0.23314	(13062606)	449395.11
3758932.01	0.22546 (13062	606)	、 、 、	
449398.98	3758932.01	0.21823	(13062606)	449402.85
3758932.01	0.21144 (13062	606)		
449406.72	3758932.01	0.20503	(13062606)	449410.59
3758932.01	0.19898 (13062	606)		
449414.46	3758932.01	0.19322	(13062606)	449418.33
3758932.01	0.18774 (13062	606)		
449422.20	3758932.01	0.18253	(13062606)	449426.07
3758932.01	0.17758 (13062	606)		
449429.94	3758932.01	0.17285	(13062606)	449433.81
3758932.01	0.16833 (13062	606)		
449437.68	3758932.01	0.16403	(13062606)	449441.55
3758932.01	0.15996 (13062	606)		
449445.42	3758932.01	0.15611	(13062606)	449368.02
3758946.05	0.29567 (13112	916)	(	
449371.89	3758946.05	0.28132	(13062606)	449375.76
3758946.05	0.27016 (13062	.606)	(	
449379.63	3758946.05	0.25991	(13020301)	449383.50
3/58946.05	0.25043 (13062	606)	(42000000)	
449387.37	3/58946.05	0.24163	(13062606)	449391.24
3/58946.05	0.23343 (13062	606)	(40000000)	
449395.11	3758946.05	0.22573	(13062606)	449398.98

\*\*\*

3758946.05	0.21851 (13062606)	)		
449402.85	3758946.05	0.21172	(13062606)	449406.72
3758946.05	0.20532 (13062606)	)		
449410.59	3758946.05	0.19926	(13062606)	449414.46
3758946.05	0.19352 (13062606)	)		
449418.33	3758946.05	0.18806	(13062606)	449422.20
3758946.05	0.18285 (13062606)	)		
449426.07	3758946.05	0.17790	(13062606)	449429.94
3758946.05	0.17317 (13062606)	)		
449433.81	3758946.05	0.16866	(13062606)	449437.68
3758946.05	0.16435 (13062606)	)		
449441.55	3758946.05	0.16027	(13062606)	449445.42
3758946.05	0.15639 (13062606)	)		
449368.02	3758960.09	0.29731	(13020301)	449371.89
3758960.09	0.28861 (13020301)	)		
449375.76	3758960.09	0.28032	(13020301)	449379.63
3758960.09	0.27224 (13020301)	)		
449383.50	3758960.09	0.25121	(13020301)	449387.37
3758960.09	0.24200 (13020301)	)		
449391.24	3758960.09	0.23366	(13062606)	449395.11
3758960.09	0.22595 (13062606)	)		
449398.98	3758960.09	0.21874	(13062606)	449402.85
3758960.09	0.21194 (13062606)	)	/	
449406.72	3758960.09	0.20555	(13062606)	449410.59
3758960.09	0.19949 (13062606	)	(1225222)	
449414.46	3/58960.09	0.19376	(13062606)	449418.33
3/58960.09	0.18831 (13062606)	)	(12062606)	440426 07
449422.20	3/58960.09	0.18312	(13062606)	449426.07
3758960.09	0.1/81/ (13062606)	) 0 17245	(12062606)	440422 01
449429.94 2759060 00	5/56900.09 0 16004 (12062606)	0.1/345	(13062606)	449455.81
2/20200.09 1/0/27 69	2759060 00	) 0 16162	(12062606)	110111 55
2750060 00	0 16052 (12062606)	0.10405	(13002000)	449441.33
7799999999999 779775 72	3758960 09	) 0 15663	(13062606)	119368 02
3758974 13	0 29735 (13112916)	)	(19002000)	440000.02
449371.89	3758974,13	0.28511	(13020301)	449375.76
3758974,13	0.27707 (13020301)	)	(19020901)	119979170
449379.63	3758974.13	, 0.26926	(13020301)	449383.50
3758974.13	0.25101 (13062606)	)	(	115565156
★ *** AERMOD - VER	SION 19191 *** *	, ** C:\LAK	ES\AERMOD VIEW\14172	
HRA\TOGGAS\TOGGAS.	ISC	***	11/11/21	
*** AERMET - VERS	ION 16216 *** **	*		
	*** 11	:24:07		
	PAG	GE 22		
*** MODELOPTs:	RegDFAULT CONC EI	LEV URBAN	N ADJ_U*	

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL
 \*\*\*
INCLUDING SOURCE(S): L0000183 , L0000184

,	L0000185	, L0000186 L0000188	, L0000187 , L0000189	, , L0000190	, L0000191	, L0000192
,	L0000193	, L0000194 L0000196	, L0000195 , L0000197	, , L0000198	, L0000199	, L0000200
J	L0000201	, L0000202 L0000204	, L0000203 , L0000205	, , L0000206	, L0000207	, L0000208

# \*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

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\*\* CONC OF TOGGAS IN MICROGRAMS/M\*\*3

X-COORD (M) Y-COORD (M)	Y-COORD (M CONC (	) CONC YYMMDDHH) 	(YYMMDDHH)	X-COORD (M)
449387.37	3758974.1	3 0.24	 216 (13062606)	449391.24
449395.11	3758974.1	3 0 <b>.</b> 22	619 (13062606)	449398.98
3758974.13	0.21894 (	13062606)		
449402.85	3758974.1	3 0.21	214 (13062606)	449406.72
3758974.13	0.20573 (	13062606)		
449410.59	3758974.1	3 0.19	967 (13062606)	449414.46
3758974.13	0.19396 (	13062606)		
449418.33	3758974.1	.3 0.18	852 (13062606)	449422.20
3758974.13	0.18334 (	13062606)		
449426.07	3758974.1	.3 0.17	839 (13062606)	449429.94
3758974.13	0.17368 (	13062606)		
449433.81	3758974.1	3 0.16	918 (13062606)	449437.68
3758974.13	0.16487 (	13062606)		
449441.55	3758974.1	.3 0.16	076 (13062606)	449445.42
3758974.13	0.15683 (	13062606)		
449368.02	3758988.1	7 0.29	784 (13112916)	449371.89
3758988.17	0.28248 (	13062606)		
449375.76	3758988.1	7 0.27	452 (13020301)	449379.63
3758988.17	0.26703 (	13020301)		
449383.50	3758988.1	7 0.25	130 (13062606)	449387.37
3758988.17	0.24241 (	13062606)		
449391.24	3758988.1	7 0.23	412 (13062606)	449395.11
3758988.17	0.22684 (	16092620)		
449398.98	3758988.1	7 0.21	912 (13062606)	449402.85
3758988.17	0.21229 (	13062606)		
449406.72	3758988.1	7 0.20	586 (13062606)	449410.59
3758988.17	0.19982 (	13062606)		
449414.46	3758988.1	7 0.19	410 (13062606)	449418.33
3758988.17	0.18867 (	13062606)		
449422.20	3758988.1	7 0.18	350 (13062606)	449426.07
3758988.17	0.17856 (	13062606)		

449429.94	3758988.17	0.17386	(13062606)	449433.81
3758988.17	0.16936 (13062606	5)		
449437.68	3758988.17	0.16506	(13062606)	449441.55
3758988.17	0.16094 (13062606	5)		
449445.42	3758988.17	0.15700	(13062606)	449368.02
3759002.21	0.30573 (13020301	.)		
449371.89	3759002.21	0.29704	(13020301)	449375.76
3759002.21	0.28874 (13020301	.)		
449379.63	3759002.21	0.28065	(13020301)	449383.50
3759002.21	0.25978 (13020301	.)		
449387.37	3759002.21	0.25109	(13020301)	449391.24
3759002.21	0.23428 (13062606	5)		
449395.11	3759002.21	0.22653	(13062606)	449398.98
3759002.21	0.21996 (16092620	))		
449402.85	3759002.21	0.21245	(13062606)	449406.72
3759002.21	0.20601 (13062606	5)		
449410.59	3759002.21	0.19995	(13062606)	449414.46
3759002.21	0.19421 (13062606	5)		
449418.33	3759002.21	0.18877	(13062606)	449422.20
3759002.21	0.18359 (13062606	5)		
449426.07	3759002.21	0.17867	(13062606)	449429.94
3759002.21	0.17397 (13062606	5)		
449433.81	3759002.21	0.16948	(13062606)	449437.68
3759002.21	0.16520 (13062606	5)		
449441.55	3759002.21	0.16109	(13062606)	449445.42
3759002.21	0.15715 (13062606	5)		
449368.02	3759016.25	0.30723	(13020301)	449371.89
3759016.25	0.29877 (13020301	.)		
449375.76	3759016.25	0.29070	(13020301)	449379.63
3/59016.25	0.28284 (13020301	.)	(42222224)	
449383.50	3/59016.25	0.2/241	(13020301)	449387.37
3/59016.25	0.25181 (13020301	.)	(12000001)	
449391.24	3759016.25	0.24295	(13020301)	449395.11
3/59016.25	0.22666 (13062606	) 0.01016	(1000000)	440402.05
449398.98	3/59016.25	0.21946	(16092620)	449402.85
3/59016.25	0.21297 (16092626	)	(42052505)	440440 50
449406.72	3/59016.25	0.20613	(13062606)	449410.59
3/59016.25	0.20004 (13062606	) 0 10120	(12052505)	440440 22
449414.46	3/59016.25	0.19430	(13062606)	449418.33
3/59010.25		(0, 10)	(12062606)	440426 07
449422.20	3759016.25	0.18300	(13062606)	449426.07
3/59010.25		)	(12062606)	440422 01
449429.94	3/39010.25	0.1/404	(13062606)	449433.81
3/39010.23		0	(12062606)	440441 EE
449457.00	3759010.25	0.10529	(13062606)	449441.55
2/32UUU25	2750016 25 2750016 25	0 1577C	(12062606)	110260 02
443445.42	2/JUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU	0.12/20	(בסמסדסמס)	449308.02
Δ *** ΛΕΡΜΩΩ \/EE	ערבייס אמרייס איי איי דערע אייס	ソ ***	CC\AEDMOD \/TEL.(\1/177	
	TCC	LAN ***		
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\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* \*\*\* 11:24:07 PAGE 23 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\* \*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION \*\*\* VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): L0000183 , L0000184 , L0000187 , L0000185 , L0000186 ر , L0000189 , L0000190 , L0000191 L0000188 , L0000192 , L0000194 , L0000195 , L0000193 ر , L0000197 , L0000198 L0000196 , L0000199 , L0000200 , L0000201 , L0000202 , L0000203 ر , L0000206 L0000204 , L0000207 , L0000205 , L0000208 ر

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

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\*\* CONC OF TOGGAS IN MICROGRAMS/M\*\*3

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X-COORD (M) Y-COORD (M)	Y-COORD (M) CONC (YYMM	CONC DDHH) 	(YYMMDDHH)	X-COORD (M)
449371.89	3759030.29	0.28934	 (13020301)	449375.76
3759030.29	0.28151 (1302	0301)		
449379.63	3759030.29	0.27393	(13020301)	449383.50
3759030.29	0.25338 (1302	0301)		
449387.37	3759030.29	0.24551	(16092620)	449391.24
3759030.29	0.23467 (1306	2606)		
449395.11	3759030.29	0.22688	(13062606)	449398.98
3759030.29	0.21958 (1306	2606)		
449402.85	3759030.29	0.21270	(13062606)	449406.72
3759030.29	0.20623 (1306	2606)		
449410.59	3759030.29	0.20010	(13062606)	449414.46
3759030.29	0.19432 (1306	2606)		
449418.33	3759030.29	0.18884	(13062606)	449422.20
3759030.29	0.18364 (1306	2606)		
449426.07	3759030.29	0.17870	(13062606)	449429.94
3759030.29	0.17400 (1306	2606)		
449433.81	3759030.29	0.16953	(13062606)	449437.68
3759030.29	0.16526 (1306	2606)		
449441.55	3759030.29	0.16116	(13062606)	449445.42
3759030.29	0.15721 (1306	2606)		
449368.02	3759044.33	0.30209	(13112916)	449371.89
3759044.33	0.28630 (1311	2916)	(	
449375.76	3759044.33	0.27238	(13062606)	449379.63

3759044.33 0.26187 (13062606) 449383.50 3759044.33 0.25223 (13062606) 449387.37 0.24323 (13062606) 3759044.33 449391.24 3759044.33 0.23486 (13062606)449395.11 0.22701 (13062606) 3759044.33 449398.98 3759044.33 0.21966 (13062606)449402.85 3759044.33 0.21273 (13062606) 449406.72 3759044.33 0.20621 (13062606) 449410.59 3759044.33 0.20005 (13062606) 449414.46 3759044.33 0.19425 (13062606) 449418.33 3759044.33 0.18876 (13062606) 449422.20 3759044.33 0.18356 (13062606) 449426.07 3759044.33 0.17861 (13062606) 449429.94 3759044.33 0.17392 (13062606) 449433.81 3759044.33 0.16944 (13062606) 449437.68 3759044.33 0.16518 (13062606) 449441.55 3759044.33 0.16108 (13062606) 449445.42 3759044.33 0.15712 (13062606) ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 \*\*\* HRA\TOGGAS\TOGGAS.ISC 11/11/21 \*\*\* \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* 11:24:07 PAGE 24 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ U\* \*\*\* THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION \*\*\* VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): L0000183 , L0000184 , L0000185 , L0000186 , L0000187 , L0000190 , L0000189 , L0000191 L0000188 , L0000192 , L0000193 , L0000194 , L0000195 ر , L0000197 , L0000198 L0000196 , L0000199 , L0000200 , L0000201 , L0000203 , L0000202 , L0000206 , L0000207 L0000204 , L0000205 , L0000208 ر \*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\* \*\* CONC OF TOGGAS IN MICROGRAMS/M\*\*3 \*\* X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) 449368.02 3758763.53 0.24197c (12121708) 449371.89 3758763.53 0.23174c (12121708)

449375.76	3758763.53	0.22229c	(12121708)	449379.63
3758763.53	0.21355c (12121708	)		
449383.50	3758763.53	0.20555c	(12121708)	449387.37
3758763.53	0.19812c (12121708	)		
449391.24	3758763.53	0.19118c	(12121708)	449395.12
3758763.53	0.18469c (12121708	)		
449398.98	3758763.53	0.17861c	(12121708)	449402.85
3758763.53	0.17289c (12121708	)		
449406.72	3758763.53	0.16752c	(12121708)	449410.59
3758763.53	0.16248c (12121708	)		
449414.46	3758763.53	0.15777c	(12121708)	449418.33
3758763.53	0.15331c (12121708	)		
449422.20	3758763.53	0.14908c	(12121708)	449426.07
3758763.53	0.14506c (12121708	)		
449429.94	3758763.53	0.14124c	(12121708)	449433.83
3758763.53	0.13760c (12121708	)		
449437.68	3758763.53	0.13413c	(12121708)	449441.5
3758763.53	0.13084c (12121708	)		
449445.42	3758763.53	0.12771c	(12121708)	449368.02
3758777.57	0.24267c (12121708	)		
449371.89	3758777.57	0.23231c	(12121708)	449375.76
3758777.57	0.22273c (12121708	)	· · · ·	
449379.63	3758777.57	0.21387c	(12121708)	449383.50
3758777.57	0.20585c (12121708	)	. ,	
449387.37	3758777.57	0.19840c	(12121708)	449391.24
3758777.57	0.19147c (12121708	)	. ,	
449395.11	3758777.57	0.18497c	(12121708)	449398.98
3758777.57	0.17889c (12121708	)		
449402.85	3758777.57	0.17317c	(12121708)	449406.72
3758777.57	0.16779c (12121708	)		
449410.59	3758777.57	0.16275c	(12121708)	449414.46
3758777.57	0.15805c (12121708	)		
449418.33	3758777.57	0.15360c	(12121708)	449422.20
3758777.57	0.14937c (12121708	)		
449426.07	3758777.57	0.14536c	(12121708)	449429.94
3758777.57	0.14154c (12121708	)		
449433.81	3758777.57	0.13791c	(12121708)	449437.68
3758777.57	0.13444c (12121708	)		
449441.55	3758777.57	0.13116c	(12121708)	449445.42
3758777.57	0.12806c (12121708	)		
449368.02	3758791.61	0.24344c	(12121708)	449371.89
3758791.61	0.23315c (12121708	)		
449375.76	3758791.61	0.22366c	(12121708)	449379.63
3758791.61	0.21488c (12121708	)		
449383.50	3758791.61	0.20685c	(12121708)	449387.37
3758791.61	0.19937c (12121708	)		
449391.24	3758791.61	0.19240c	(12121708)	449395.12
3758791.61	0.18589c (12121708	)		
449398.98	3758791.61	0.17979c	(12121708)	449402.85
3758791.61	0.17405c (12121708	)		

449406.72 0.16865c (12121708) 3758791.61 449410.59 0.16359c (12121708) 3758791.61 0.15886c (12121708) 449414.46 3758791.61 449418.33 3758791.61 0.15439c (12121708) 0.15015c (12121708) 449422.20 3758791.61 449426.07 3758791.61 0.14612c (12121708) 449429.94 3758791.61 0.14229c (12121708) 449433.81 0.13864c (12121708) 3758791.61 449437.68 3758791.61 0.13516c (12121708) 449441.55 0.13185c (12121708) 3758791.61 449445.42 3758791.61 0.12870c (12121708) 449368.02 3758805.65 0.24420c (12121708) 449371.89 3758805.65 0.23396c (12121708) 449375.76 3758805.65 0.22454c (12121708) 449379.63 3758805.65 0.21584c (12121708) 449383.50 3758805.65 0.20777c (12121708) 449387.37 3758805.65 0.20027c (12121708) 449391.24 0.19328c (12121708) 3758805.65 449395.11 3758805.65 0.18675c (12121708) 449398.98 0.18063c (12121708) 3758805.65 449402.85 3758805.65 0.17487c (12121708) 449406.72 3758805.65 0.16946c (12121708) 449410.59 3758805.65 0.16437c (12121708) 449414.46 3758805.65 0.15963c (12121708) 449418.33 3758805.65 0.15514c (12121708) 449422.20 0.15088c (12121708) 3758805.65 449426.07 3758805.65 0.14683c (12121708) 449429.94 0.14299c (12121708) 3758805.65 ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 \*\*\* HRA\TOGGAS\TOGGAS.ISC 11/11/21 16216 \*\*\* \*\*\* \*\*\* AERMET - VERSION \*\*\* 11:24:07

PAGE 25

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

						***	THE	1ST	HIGHEST	8-HR	AVERAGE	CONCEN	TRATION
VA	LUES	FOR	SOURCI	E GROUP:	ALL		***						
							INCLU	DING	SOURCE(S	5):	L00001	33,	L0000184
ر	L000	0185	ر	L0000186	ر	L00	00187		,				
				L0000188	ر	L00	00189	L L	, L000019	0	, L000019	91,	L0000192
ر	L000	0193	ر	L0000194	ر	L00	00195		,				
				L0000196	ر	L00	00197		, L000019	8	, L000019	99,	L0000200
,	L000	0201	ر	L0000202	ر	L00	00203		,				
				L0000204	ر	L00	00205	<u>ر</u>	, L000020	)6	, L000020	ð7,	L0000208

**\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS** 

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\*\* CONC OF TOGGAS IN MICROGRAMS/M\*\*3

X-COORD (M) Y-COORD (M)	Y-COORD (M) CONC (YYMMDDHF	CONC I)	(YYMMDDHH)	X-COORD (M)
449433.81 3758805.65	3758805.65 0.13583c (12121708	0.13932c	(12121708)	449437.68
449441.55 3758805.65	3758805.65 0.12930c (12121708	0.13249c	(12121708)	449445.42
449368.02 3758819_69	3758819.69 0.23453c (12121708	0.24480c	(12121708)	449371.89
449375.76	3758819.69 0.21638c (12121700	0.22510c	(12121708)	449379.63
449383.50	3758819.69	0.20829c	(12121708)	449387.37
449391.24	3758819.69	0.19377c	(12121708)	449395.11
449398.98	3758819.69	0.18109c	(12121708)	449402.85
449406.72	3758819.69	3) 0.16990c	(12121708)	449410.59
3758819.69 449414.46	0.16481c (12121/08 3758819.69	3) 0.16006c	(12121708)	449418.33
3758819.69 449422.20	0.15556c (12121708 3758819.69	3) 0.15129c	(12121708)	449426.07
3758819.69 449429.94	0.14725c (12121708 3758819.69	3) 0.14339c	(12121708)	449433.81
3758819.69 449437.68	0.13972c (12121708 3758819.69	3) 0.13622c	(12121708)	449441.55
3758819.69 449445.42	0.13288c (12121708 3758819.69	3) 0.12968c	(12121708)	449368.02
3758833.73 449371.89	0.24533c (12121708 3758833.73	3) 0.23505c	(12121708)	449375.76
3758833.73 449379.63	0.22559c (12121708 3758833.73	3) 0.21685c	(12121708)	449383.50
3758833.73 449387.37	0.20875c (12121708 3758833.73	3) 0.20122c	(12121708)	449391.24
3758833.73 449395.11	0.19420c (12121708 3758833.73	3) 0.18764c	(12121708)	449398.98
3758833.73 449402.85	0.18149c (12121708 3758833.73	3) 0.17572c	(12121708)	449406.72
3758833.73 449410.59	0.17028c (12121708 3758833.73	3) 0.16519c	(12121708)	449414.46
3758833.73 449418.33	0.16043c (12121708 3758833.73	3) 0.15593c	(12121708)	449422.20
3758833.73	0.15166c (12121708	3) 0 14761c	(12121708)	110122.20
3758833.73 <i>41</i> 9433 81	0.14375c (12121708	3) 0 1/008c	(12121708)	1/0/27 69
449499.01	C1.CC00C1C	0.140000	(12121/00)	449497.00

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	3758833.73	0.13657c (12121708)	)			
	449441.55	3758833.73	0.13322c	(12121708)		449445.42
	3758833.73	0.13002c (12121708)	)	. ,		
	449368.02	3758847.77	0.24636c	(12121708)		449371.89
	3758847.77	0.23608c (12121708)	)	. ,		
	449375.76	3758847.77	0.22663c	(12121708)		449379.63
	3758847.77	0.21790c (12121708)	)			
	449383.50	3758847.77	0.20977c	(12121708)		449387.37
	3758847.77	0.20222c (12121708)	)			
	449391.24	3758847.77	0.19518c	(12121708)		449395.11
	3758847.77	0.18859c (12121708)	)			
	449398.98	3758847.77	0.18242c	(12121708)		449402.85
	3758847.77	0.17662c (12121708)	)			
	449406.72	3758847.77	0.17117c	(12121708)		449410.59
	3758847.77	0.16604c (12121708)	)			
	449414.46	3758847.77	0.16123c	(12121708)		449418.33
	3758847.77	0.15668c (12121708)	)			
	449422.20	3758847.77	0.15236c	(12121708)		449426.07
	3758847.77	0.14825c (12121708)	)			
	449429.94	3758847.77	0.14435c	(12121708)		449433.81
	3758847.77	0.14064c (12121708)	)			
	449437.68	3758847.77	0.13709c	(12121708)		449441.55
	3758847.77	0.13373c (12121708)	)			
	449445.42	3758847.77	0.13052c	(12121708)		449368.02
	3758861.81	0.24728c (12121708)	)			
	449371.89	3758861.81	0.23704c	(12121708)		449375.76
	3758861.81	0.22760c (12121708)	)			
	449379.63	3758861.81	0.21889c	(12121708)		449383.50
	3758861.81	0.21076c (12121708)	)			
	449387.37	3758861.81	0.20320c	(12121708)		449391.24
	3758861.81	0.19614c (12121708)	)			
	449395.11	3758861.81	0.18955c	(12121708)		449398.98
	3758861.81	0.18336c (12121708)	)			
	449402.85	3758861.81	0.17754c	(12121708)		449406.72
	3758861.81	0.17207c (12121708)	)	(40404700)		
	449410.59	3/58861.81	0.16691c	(12121/08)		449414.46
	3758861.81	0.16204c (12121708)				
•	*** AERMOD - VER	SION 19191 *** **	** C:\LAKI	S \AERMOD VI	-W\141/2	
Н	RA\IOGGAS\IOGGAS.		***	11/11/	21	
	*** AERMEI - VERS	LUN 16216 *** ***	~			
			24:07			
		DAC				
				*II EUV		
	MUDELUPIS:	REGULAULI CONC EL		I ADJ_U*		
		*** TUF	167 1170			
v	ATTIES EOD SUIDCE	SRUID• VII ***	* ISI UTC		WERAGE CONCEN	
v	ALULS FUR SUURCE			IRCE(S).	1 00001 83	10000181
	10000125		2001NG 300		ر دەرەرە	L0000104
	L ر ۲۰۰۰ دار دار ۱۰	2000100 , L000010 2000188 I 000019	, , 20, ια	000190	1 0000191	1 0000100
	L	, , , , , , , , , , , , , , , , , , , ,	ی∟ ر	, <u>, , , , , , , , , , , , , , , , , , </u>	, 100001/1 J	F0000172

ر	L0000193	, L0000194	, L0000195	ر		
		L0000196	, L0000197	, L0000198	, L0000199	, L0000200
ر	L0000201	, L0000202	, L0000203	ر		
		L0000204	, L0000205	, L0000206	, L0000207	, L0000208

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\* CONC OF TOGGAS IN MICROGRAMS/M\*\*3

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X-COORD (M) Y-COORD (M)	Y-COORD CONC	(M) (YYMMDDHH)	CONC ) 	(YYMMDDHH)	X-COORD (M)
449418.33	3758861	.81	0.15743c	- (12121708)	449422.20
3758861.81	0.15306c	(12121708)	)		
449426.07	3758861	.81	0.14892c	(12121708)	449429.94
3758861.81	0.14497c	(12121708)	)		
449433.81	3758861	.81	0.14121c	(12121708)	449437.68
3758861.81	0.13763c	(12121708)	)		
449441.55	3758861	.81	0.13423c	(12121708)	449445.42
3758861.81	0.13101c	(12121708)	)		
449368.02	3758875	.85	0.24791c	(12121708)	449371.89
3758875.85	0.23767c	(12121708)	)		
449375.76	3758875	.85	0.22824c	(12121708)	449379.63
3758875.85	0.21953c	(12121708)	)		
449383.50	3758875	.85	0.21143c	(12121708)	449387.37
3758875.85	0.20386c	(12121708)	)		
449391.24	3758875	.85	0.19681c	(12121708)	449395.11
3758875.85	0.19020c	(12121708)	)		
449398.98	3758875	.85	0.18401c	(12121708)	449402.85
3758875.85	0.17819c	(12121708)	)		
449406.72	3758875	.85	0.17271c	(12121708)	449410.59
3758875.85	0.16753c	(12121708)	)		
449414.46	3758875	.85	0.16264c	(12121708)	449418.33
3758875.85	0.15801c	(12121708)	)		
449422.20	3758875	.85	0.15362c	(12121708)	449426.07
3758875.85	0.14945c	(12121708)	)		
449429.94	3758875	.85	0.14549c	(12121708)	449433.81
3758875.85	0.14171c	(12121708)	)		
449437.68	3758875	.85	0.13811c	(12121708)	449441.55
3758875.85	0.13470c	(12121708)	)		
449445.42	3758875	.85	0.13147c	(12121708)	449368.02
3758889.89	0.24846c	(12121708)	)		
449371.89	3758889	.89	0.23821c	(12121708)	449375.76
3758889.89	0.22877c	(12121708)	)		
449379.63	3758889	.89	0.22005c	(12121708)	449383.50
3758889.89	0.21195c	(12121708)	)		

	449387.37	3758889.89 0.20440c (12121708)	449391.24
	3758889.89	0.19734c (12121708)	
	449395.11	3758889.89 0.19073c (12121708)	449398.98
	3758889.89	0.18453c (12121708)	
	449402.85	3758889.89 0.17870c (12121708)	449406.72
	3758889.89	0.17321c (12121708)	
	449410.59	3758889.89 0.16803c (12121708)	449414.46
	3758889.89	0.16313c (12121708)	
	449418.33	3758889.89 0.15849c (12121708)	449422.20
	3758889.89	0.15409c (12121708)	
	449426.07	3758889.89 0.14992c (12121708)	449429.94
	3758889.89	0.14594c (12121708)	
	449433.81	3758889.89 0.14215c (12121708)	449437.68
	3758889.89	0.13854c (12121708)	
	449441.55	3758889.89 0.13513c (12121708)	449445.42
	3758889.89	0.13189c (12121708)	
	449368.02	3758903.93 0.24893c (12121708)	449371.89
	3758903.93	0.23866c (12121708)	
	449375.76	3758903.93 0.22921c (12121708)	449379.63
	3758903.93	0.22049c (12121708)	
	449383.50	3758903.93 0.21242c (12121708)	449387.37
	3758903.93	0.20489c (12121708)	
	449391.24	3758903.93 0.19785c (12121708)	449395.11
	3758903.93	0.19126c (12121708)	
	449398.98	3758903.93 0.18507c (12121708)	449402.85
	3758903.93	0.17925c (12121708)	
	449406.72	3758903.93 0.17376c (12121708)	449410.59
	3758903.93	0.16857c (12121708)	
	449414.46	3758903.93 0.16366c (12121708)	449418.33
	3758903.93	0.15900c (12121708)	
	449422.20	3758903.93 0.15458c (12121708)	449426.07
	3758903.93	0.15038c (12121708)	
	449429.94	3758903.93 0.14639c (12121708)	449433.81
	3758903.93	0.14258c (12121708)	
	449437.68	3758903.93 0.13895c (12121708)	449441.55
	3758903.93	0.13552c (12121708)	
	449445.42	3758903.93 0.13227c (12121708)	449368.02
	3758917.97	0.24920c (12121708)	
	449371.89	3758917.97 0.23892c (12121708)	449375.76
	3758917.97	0.22947c (12121708)	
	449379.63	3758917.97 0.22075c (12121708)	449383.50
	3758917.97	0.21272c (12121708)	
	449387.37	3758917.97 0.20522c (12121708)	449391.24
	3758917.97	0.19823c (12121708)	
	449395.11	3758917.97 0.19167c (12121708)	449398.98
	3758917.97	0.18552c (12121708)	
,	★ *** AERMOD - VER	SION 19191 *** *** C:\LAKES\AERMOD VIEW\14172	-
ł	HRA\TOGGAS\TOGGAS.	ISC *** 11/11/21	
	*** AERMET - VERS	LUN 16216 *** ***	
		*** 11:24:07	

PAGE 27 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ U\* \*\*\* THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\* INCLUDING SOURCE(S): L0000183 . L0000184 , L0000185 , L0000187 , L0000186 , L0000190 , L0000191 L0000188 , L0000189 , L0000192 , L0000193 , L0000194 , L0000195 ر , L0000198 L0000196 , L0000197 , L0000199 , L0000200 , L0000201 , L0000202 , L0000203 , L0000205 , L0000206 L0000204 , L0000207 , L0000208 ر \*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\* CONC OF TOGGAS IN MICROGRAMS/M\*\*3 \*\* Y-COORD (M) CONC X-COORD (M) (YYMMDDHH) X-COORD (M) (YYMMDDHH) Y-COORD (M) CONC 0.17972c (12121708) 449406.72 449402.85 3758917.97 3758917.97 0.17426c (12121708) 449410.59 3758917.97 0.16908c (12121708) 449414.46 3758917.97 0.16416c (12121708) 449418.33 3758917.97 0.15950c (12121708) 449422.20 3758917.97 0.15506c (12121708) 0.15084c (12121708) 449429.94 449426.07 3758917.97 0.14681c (12121708) 3758917.97 449433.81 3758917.97 0.14298c (12121708) 449437.68 0.13932c (12121708) 3758917.97 449441.55 3758917.97 0.13587c (12121708) 449445.42 3758917.97 0.13261c (12121708) 449368.02 3758932.01 0.24942c (12121708) 449371.89 0.23912c (12121708) 3758932.01 449375.76 3758932.01 0.22965c (12121708) 449379.63 3758932.01 0.22092c (12121708) 0.21290c (12121708) 449383.50 3758932.01 449387.37 3758932.01 0.20545c (12121708) 0.19847c (12121708) 449391.24 3758932.01 449395.11 0.19194c (12121708) 3758932.01 449398.98 3758932.01 0.18580c (12121708) 449402.85 0.18003c (12121708) 3758932.01 449406.72 3758932.01 0.17458c (12121708) 449410.59 0.16943c (12121708) 3758932.01 449414.46 3758932.01 0.16453c (12121708) 449418.33

3758932.01	0.15986c (12121708	)		
449422.20	3758932.01	0.15543c	(12121708)	449426.07
3758932.01	0.15120c (12121708	)		
449429.94	3758932.01	0.14717c	(12121708)	449433.81
3758932.01	0.14332c (12121708	)		
449437.68	3758932.01	0.13965c	(12121708)	449441.55
3758932.01	0.13618c (12121708	)		
449445.42	3758932.01	0.13291c	(12121708)	449368.02
3758946.05	0.24965c (12121708	)		
449371.89	3758946.05	0.23933c	(12121708)	449375.76
3758946.05	0.22985c (12121708	)		
449379.63	3758946.05	0.22109c	(12121708)	449383.50
3758946.05	0.21312c (12121708	)		
449387.37	3758946.05	0.20565c	(12121708)	449391.24
3758946.05	0.19870c (12121708	)		
449395.11	3758946.05	0.19216c	(12121708)	449398.98
3758946.05	0.18604c (12121708	)		
449402.85	3758946.05	0.18026c	(12121708)	449406.72
3758946.05	0.17482c (12121708	)		
449410.59	3758946.05	0.16967c	(12121708)	449414.46
3758946.05	0.16479c (12121708	)		
449418.33	3758946.05	0.16014c	(12121708)	449422.20
3758946.05	0.15570c (12121708	)		
449426.07	3758946.05	0.15148c	(12121708)	449429.94
3758946.05	0.14746c (12121708	)		
449433.81	3758946.05	0.14361c	(12121708)	449437.68
3758946.05	0.13993c (12121708	)		
449441.55	3758946.05	0.13645c	(12121708)	449445.42
3758946.05	0.13315c (12121708	)		
449368.02	3758960.09	0.24986c	(12121708)	449371.89
3758960.09	0.23953c (12121708	)		
449375.76	3758960.09	0.23003c	(12121708)	449379.63
3758960.09	0.22126c (12121708	)		
449383.50	3758960.09	0.21330c	(12121708)	449387.37
3758960.09	0.20583c (12121708	)		
449391.24	3758960.09	0.19888c	(12121708)	449395.11
3758960.09	0.19234c (12121708	)		
449398.98	3758960.09	0.18622c	(12121708)	449402.85
3758960.09	0.18045c (12121708	)		
449406.72	3758960.09	0.17501c	(12121708)	449410.59
3758960.09	0.16987c (12121708	)		
449414.46	3758960.09	0.16499c	(12121708)	449418.33
3758960.09	0.16036c (12121708	)		
449422.20	3758960.09	0.15593c	(12121708)	449426.07
3758960.09	0.15172c (12121708	)		
449429.94	3758960.09	0.14770c	(12121708)	449433.81
3758960.09	0.14386c (12121708	)		
449437.68	3758960.09	0.14018c	(12121708)	449441.55
3758960.09	0.13669c (12121708	)		
449445.42	3758960.09	0.13336c	(12121708)	449368.02

3758974.130.25030c (12121708) 0.23994c (12121708) 449371.89 3758974.13 449375.76 3758974.13 0.23041c (12121708) 449379.63 3758974.13 0.22162c (12121708) 449383.50 3758974.13 0.21359c (12121708) ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 HRA\TOGGAS\TOGGAS.ISC \*\*\* 11/11/21 \*\*\* 11/11/21 HRA\TOGGAS\TOGGAS.ISC \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* \*\*\* 11:24:07 PAGE 28 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\* \*\*\* THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\* INCLUDING SOURCE(S): L0000183 , L0000184 , L0000187 , L0000185 , L0000186 , L0000190 , L0000191 , L0000192 L0000188 , L0000189 ,L0000194 ,L0000195 , L0000193 ر L0000196 , L0000197 , L0000198 , L0000199 , L0000200 , L0000203 , L0000202 , L0000201 L0000204 , L0000205 , L0000206 , L0000207 , L0000208 ر **\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS** \*\*\* \*\* CONC OF TOGGAS IN MICROGRAMS/M\*\*3 \*\* (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC X-COORD (M) CONC (YYMMDDHH) Y-COORD (M) 449387.37 3758974.13 0.20608c (12121708) 449391.24 3758974.13 0.19907c (12121708) 449395.11 3758974.13 0.19253c (12121708) 449398.98 3758974.13 0.18638c (12121708) 449402.85 3758974.13 0.18061c (12121708) 449406.72 3758974.13 0.17516c (12121708) 449410.59 3758974.13 0.17001c (12121708) 449414.46 3758974.13 0.16516c (12121708) 449418.33 3758974.13 0.16053c (12121708) 449422.20 3758974.13 0.15612c (12121708) 0.15191c (12121708) 449426.07 3758974.13 449429.94 3758974.13 0.14790c (12121708) 449433.81 3758974.13 0.14406c (12121708) 449437.68 3758974.13 0.14039c (12121708) 0.13688c (12121708) 449441.55 3758974.13 449445.42 3758974.13 0.13354c (12121708)

449368.02	3758988.17	0.25070c	(12121708)	449371.89
3758988.17	0.24030c (12121708	3)		
449375.76	3758988.17	0.23073c	(12121708)	449379.63
3758988.17	0.22191c (12121708	3)		
449383.50	3758988.17	0.21384c	(12121708)	449387.37
3758988.17	0.20629c (12121708	3)		
449391.24	3758988.17	0.19925c	(12121708)	449395.11
3758988.17	0.19267c (12121708	3)		
449398.98	3758988.17	0.18652c	(12121708)	449402.85
3758988.17	0.18072c (12121708	3)		
449406.72	3758988.17	0.17526c	(12121708)	449410.59
3758988.17	0.17013c (12121708	3)		
449414.46	3758988.17	0.16527c	(12121708)	449418.33
3758988.17	0.16066c (12121708	3)		
449422.20	3758988.17	0.15626c	(12121708)	449426.07
3758988.17	0.15206c (12121708	3)		
449429.94	3758988.17	0.14805c	(12121708)	449433.81
3758988.17	0.14422c (12121708	3)		
449437.68	3758988.17	0.14055c	(12121708)	449441.55
3758988.17	0.13704c (12121708	3)		
449445.42	3758988.17	0.13368c	(12121708)	449368.02
3759002.21	0.25074c (12121708	3)		
449371.89	3759002.21	0.24033c	(12121708)	449375.76
3759002.21	0.23075c (12121708	3)		
449379.63	3759002.21	0.22193c	(12121708)	449383.50
3759002.21	0.21390c (12121708	3)	· · · · · · · · · · · · · · · · · · ·	
449387.37	3759002.21	0.20636c	(12121708)	449391.24
3759002.21	0.19937c (12121708	5)	(	
449395.11	3759002.21	0.19280c	(12121708)	449398.98
3759002.21	0.18663c (12121708	5)	(40404=00)	
449402.85	3/59002.21	0.180850	(12121708)	449406.72
3/59002.21	0.1/539C (12121/08	5) 0.17005	(40404700)	
449410.59	3/59002.21	0.1/0250	(12121708)	449414.46
3/59002.21	0.1653/C (12121/08		(10101700)	440400.00
449418.33	3/59002.21	0.160/50	(12121708)	449422.20
3/59002.21	0.15634C (12121/08	5) 0.15015-	(10101700)	440400 04
449426.07	3/59002.21	0.152150	(12121708)	449429.94
3/59002.21	0.148150 (12121/08	6) 0 144226	(10101700)	440427 69
449433.81	3/59002.21	0.144330	(12121708)	449437.68
3/59002.21	0.140680 (12121/08	(0, 1)	(12121700)	440445 43
449441.00	5/59002.21 0 133020 /13131700	0.13/180	(12121708)	449445.42
3/39002.21 1/0269 02	0.15582C (12121/08 2750816 25	0 $25077c$	(10101700)	440271 80
449500.02 2750016 25	5/59010.25 0 24025c (12121700	0.250//0	(12121708)	449371.89
1/027E 76	2750016 25	0 22070c	(10101700)	440270 62
4475/3./0 2750016 25	C 22101c (1212120	0.230/00	(12121/00)	449379.03
VV0202 EV	2750016 25	0 01100	(1/10100/1)	<b>110207 27</b>
3759016 25	0 2064/c (10101700	2.21420	(14121224)	449307.37
ΔΔΟΣΟΙ ΟΛ	3759016 25	0 19943c	(12121708)	<i>11</i> 9395 11
3759016 25	0 19290c (12121700	3.122490	(12121/00)	11.555.11
J, JJ (10.2J	0.175200 (15151/00	· /		

449398.98 3759016.25 0.18673c (12121708) 449402.85 0.18094c (12121708) 3759016.25 449406.72 3759016.25 0.17549c (12121708) 449410.59 3759016.25 0.17032c (12121708) 449414.46 3759016.25 0.16544c (12121708) 449418.33 3759016.25 0.16080c (12121708) 449422.20 3759016.25 0.15640c (12121708) 449426.07 0.15220c (12121708) 3759016.25 449429.94 3759016.25 0.14821c (12121708) 449433.81 0.14440c (12121708) 3759016.25 449437.68 3759016.25 0.14076c (12121708) 449441.55 3759016.25 0.13727c (12121708) 449445.42 3759016.25 0.13391c (12121708) 449368.02 0.25143c (12121708) 3759030.29 ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 HRA\TOGGAS\TOGGAS.ISC \*\*\* 11/11/21 \*\*\* \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* 11:24:07 PAGE 29 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\* \*\*\* THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\* INCLUDING SOURCE(S): L0000183 , L0000184 , L0000185 , L0000186 , L0000187 , L0000190 , L0000191 L0000188 , L0000189 , L0000192 , L0000193 , L0000194 , L0000195 ر , L0000198 , L0000197 , L0000199 L0000196 , L0000200 , L0000201 , L0000202 , L0000203 L0000204 . L0000205 , L0000206 , L0000207 , L0000208 ر **\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS** \*\*\* \*\* CONC OF TOGGAS IN MICROGRAMS/M\*\*3 \*\* X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) 449371.89 3759030.29 0.24095c (12121708) 449375.76 3759030.29 0.23131c (12121708) 449379.63 3759030.29 0.22243c (12121708) 449383.50 0.21434c (12121708) 3759030.29 449387.37 3759030.29 0.20678c (12121708) 449391.24 0.19973c (12121708) 3759030.29 449395.11 3759030.29 0.19312c (12121708) 449398.98

0.18693c (12121708) 3759030.29 449402.85 3759030.29 0.18109c (12121708) 449406.72 0.17559c (12121708) 3759030.29 449410.59 3759030.29 0.17038c (12121708) 449414.46 3759030.29 0.16547c (12121708) 449418.33 3759030.29 0.16080c (12121708) 449422.20 3759030.29 0.15638c (12121708) 449426.07 3759030.29 0.15218c (12121708) 449429.94 3759030.29 0.14818c (12121708) 449433.81 3759030.29 0.14437c (12121708) 449437.68 3759030.29 0.14073c (12121708) 449441.55 3759030.29 0.13724c (12121708) 449445.42 0.13387c (12121708) 3759030.29 449368.02 3759044.33 0.25198c (12121708) 449371.89 3759044.33 0.24144c (12121708) 449375.76 449379.63 3759044.33 0.23175c (12121708) 3759044.33 0.22283c (12121708) 3759044.33 449383.50 0.21465c (12121708) 449387.37 3759044.33 0.20703c (12121708) 449391.24 3759044.33 0.19992c (12121708) 449395.11 3759044.33 0.19326c (12121708) 449398.98 3759044.33 0.18701c (12121708) 449402.85 3759044.33 0.18112c (12121708) 449406.72 3759044.33 0.17558c (12121708) 449410.59 0.17034c (12121708) 3759044.33 449414.46 3759044.33 0.16540c (12121708) 449418.33 3759044.33 0.16073c (12121708) 449422.20 3759044.33 0.15630c (12121708) 449426.07 3759044.33 0.15209c (12121708) 449429.94 0.14810c (12121708) 3759044.33 449433.81 3759044.33 0.14429c (12121708) 449437.68 3759044.33 0.14066c (12121708) 449441.55 0.13717c (12121708) 3759044.33 449445.42 3759044.33 0.13379c (12121708) ★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 \*\*\* HRA\TOGGAS\TOGGAS.ISC 11/11/21 16216 \*\*\* \*\*\* \*\*\* AERMET - VERSION \*\*\* 11:24:07 PAGE 30 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ U\* \*\*\* THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER 5 YEARS \*\*\* \*\* CONC OF TOGGAS IN MICROGRAMS/M\*\*3

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			N	ETWOR	KΚ						
GROUP ID	)				AVERAGE	E CONC			REC	EPTOR (XR, Y	R,
ZELEV, Z	ZHILL,	ZFLAG)	OF T	YPE	GRID-I	)					
								-			
ALL	1ST	HIGHEST	VALUI	E IS	e	0.12140	AT	(	449368.02,	3759044.33,	
198.07,	198.	.07,	0.00)	DC				•			
	2ND	HIGHEST	VALUI	E IS	6	9.12131	AT	(	449368.02,	3758889.89,	
195.17,	195.	.17,	0.00)	DC							
405 50	3RD	HIGHEST	VALUI	EIS	6	9.12126	AT	(	449368.02,	3758903.93,	
195.79,	195.	.79, 	0.00)	DC			• -	,	440260.02	2750075 05	
104 70	41H	HIGHESI	VALUI		Ŀ	9.12124	AI	(	449368.02,	3/588/5.85,	
194.70,	194. 5TU	./0, UTCUECT	0.00) - VALII		C	1 2 1 0 2	лт	1	110369 03	2750061 01	
10/ 1/	10/	1/			e	0.12105	AI	C	449508.02,	5750001.01,	
1)4.14,	6TH	. 14, HTGHEST	- νΔιιι		¢	3.12059	ΔТ	(	449368 02	3758917.97.	
196.55.	196.	.55.	0.00)	DC	·		/	`	1199001029	5,5051,.57,5	
,	7TH	HIGHEST	VALUI	EIS	6	0.12036	AT	(	449368.02,	3758847.77,	
193.38,	193.	.38,	0.00)	DC				`	,	,	
-	8TH	HIGHEST	· VALÚI	E IS	6	9.12009	AT	(	449368.02,	3759030.29,	
198.53,	198.	.53,	0.00)	DC							
	9TH	HIGHEST	VALUI	E IS	e	0.12001	AT	(	449368.02,	3758932.01,	
197.19,	197.	.19,	0.00)	DC							
	10TH	HIGHEST	VALUI	EIS	6	9.11987	AT	(	449368.02,	3758988.17,	
198.06,	198.	.06,	0.00)	DC							
*** PE(		TVDEC.	<u> </u>	CPTC							
		ITFLJ.	GP =	GRID							
			DC =	DISC	CART						
			DP =	DISC	POLR						
★ *** Al	ERMOD	- VERSIG	ON 19	191 *	*** *:	** C:\L	AKE	S\A	ERMOD VIEW\1	4172	
HRA\TOGO	GAS\TO	GAS.ISC				**	*	•	11/11/21		
*** AEF	RMET -	VERSION	162	16 **	* ***	k					
			**:	*	11:	:24:07					
					PAC	GE 31					
*** MOE	DELOPTS	s: Re	gDFAU	LT C	CONC EL	_EV UR	BAN	A	DJ_U*		
								ala : 1			a 11-
	***							**	↑ THE SUMMAR	Y OF HIGHEST	1-HR
KESULIS	ጥ ጥ ጥ										
					**		OF 7	00	GΔS ΤΝ ΜΤΟ	ROGRAMS /M**3	
		**				CONC	51				

DATE

NETWORK

AVERAGE CONC (YYMMDDHH) RECEPTOR GROUP ID (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID ALL HIGH 1ST HIGH VALUE IS 0.30723 ON 13020301: AT ( 449368.02, 3759016.25, 199.00, 199.00, 0.00) DC \*\*\* RECEPTOR TYPES: GC = GRIDCART GP = GRIDPOLRDC = DISCCARTDP = DISCPOLR★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 \*\*\* 11/11/21 HRA\TOGGAS\TOGGAS.ISC \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* \*\*\* 11:24:07 PAGE 32 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\* \*\*\* THE SUMMARY OF HIGHEST 8-HR RESULTS \*\*\* \*\* CONC OF TOGGAS IN MICROGRAMS/M\*\*3 \*\* DATE NETWORK AVERAGE CONC (YYMMDDHH) RECEPTOR GROUP ID (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID - - - - - - - - -ALL HIGH 1ST HIGH VALUE IS 0.25198c ON 12121708: AT ( 449368.02, 3759044.33, 198.07, 198.07, 0.00) DC \*\*\* RECEPTOR TYPES: GC = GRIDCART GP = GRIDPOLRDC = DISCCART DP = DISCPOLR★ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\LAKES\AERMOD VIEW\14172 \*\*\* 11/11/21 HRA\TOGGAS\TOGGAS.ISC \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* \*\*\* 11:24:07 PAGE 33 \*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* Message Summary : AERMOD Model Execution \*\*\* ----- Summary of Total Messages ------A Total of 0 Fatal Error Message(s) A Total of 2 Warning Message(s) 1638 Informational Message(s) A Total of A Total of 43848 Hours Were Processed A Total of 1039 Calm Hours Identified A Total of 599 Missing Hours Identified ( 1.37 Percent) \*\*\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*\*\* \*\*\* NONE \*\*\* \*\*\*\*\*\* \*\*\*\*\*\* WARNING MESSAGES ME W186 130 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50

ME W187 130 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

 APPENDIX 5.1:

**RISK CALCULATION WORKSHEETS** 



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### Table A1 Quantification of Carcinogenic Risks and Noncarcinogenic Hazards 30 Year Exposure Scenario / Maximum Residential Receptor

Source	Source Concentration		Weight	Contaminant	с	Carcinogenic Ri	isk	Noncarcinogenic Hazards / Toxicological Endpoints*									
			Fraction		URF	CPF	RISK	REL	RfD	PESP	CNS/PNS	CV/BI	IMMUN	KIDN	GI/I V	REPRO	EVES
	(ug/m3)	(mg/m3)			(ug/m3)	(mg/kg/day)	RISK	(ug/m3)	(mg/kg/day)	KESI CNS/IN		C V/DL	INIMOIN	KIDI	0111	KLI KO	LILS
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(1)	(m)	(n)	(0)	(p)	(q)	(r)
Freeway	0.12140	1.2E-04	4.67E-01	Benzene	2.9E-05	1.0E-01	6.8E-07	3.0E+00	8.6E-04			1.8E-02					
			3.28E-01	Formaldehyde	6.0E-06	2.1E-02	9.8E-08	9.0E+00	2.6E-03	4.2E-03							
			1.06E-01	1,3-Butadiene	1.7E-04	6.0E-01	9.0E-07	2.0E+00	5.7E-04							6.2E-03	
			7.40E-02	Acetaldehyde	2.7E-06	1.0E-02	1.1E-08	1.4E+02	4.0E-02	6.2E-05							
			2.50E-02	Acrolein				3.5E-01	1.0E-04	8.3E-03							
	0.02368	2.4E-05	1.00E+00	Diesel Particulates	3.0E-04	1.1E+00	2.9E-06	5.0E+00	1.4E-03	4.5E-03							
Total							4.60E-06			1.7E-02	0.0E+00	1.8E-02	0.0E+00	0.0E+00	0.0E+00	6.2E-03	0.0E+00

### \* Key to Toxocological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g., teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

#### Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	30
inhalation rate (m3/day)	20
average body weight (kg)	70
averaging time <sub>(cancer)</sub> (days)	25550
averaging time(noncancer) (days)	10950

# Table A2Quantification of Noncarcinogenic Acute Hazards1-Hour Exposure Scenario / Maximum Exposed Receptor

Source	Concentration	Weight	Contaminant	Noncarcinogenic Hazards / Toxicological Endpoints*									
	(ug/m3)	Fraction		REL	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES	
				(ug/m3)									
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(1)	(m)	
Freeway	0.30723	4.67E-01	Benzene	2.7E+01			5.3E-03	5.3E-03			5.3E-03		
TOG		3.28E-01	Formaldehyde	5.5E+01								1.8E-03	
		1.06E-01	1,3-Butadiene	6.6E+02							4.9E-05		
		7.40E-02	Acetaldehyde	4.7E+02	4.8E-05							4.8E-05	
		2.50E-02	Acrolein	2.5E+00	3.1E-03							3.1E-03	
Freeway	0.04939	8.20E-02	Benzene	2.7E+01			1.5E-04	1.5E-04			1.5E-04		
Diesel/TOG		6.07E-01	Formaldehyde	5.5E+01								5.5E-04	
		8.00E-03	1,3-Butadiene	6.6E+02							6.0E-07		
		3.03E-01	Acetaldehyde	4.7E+02	3.2E-05							3.2E-05	
Total					3.2E-03	0.0E+00	5.5E-03	5.5E-03	0.0E+00	0.0E+00	5.5E-03	5.5E-03	

\* Key to Toxocological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g., teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

# Table A3Quantification of Noncarcinogenic Acute Hazards8-Hour Exposure Scenario / Maximum Exposed Receptor

Source	Concentration	Weight	Contaminant	Noncarcinogenic Hazards / Toxicological Endpoints*										
	(ug/m3)	Fraction		REL	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES		
				(ug/m3)										
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(1)	(m)		
Freeway	0.25198	3.28E-01	Formaldehyde	9.0E+00	9.2E-03									
TOG		1.06E-01	1,3-Butadiene	9.0E+00							3.0E-03			
		7.40E-02	Acetaldehyde	3.0E+02	6.2E-05									
		2.50E-02	Acrolein	7.0E-01	9.0E-03									
Freeway	0.04051	6.07E-01	Formaldehyde	9.0E+00	2.7E-03									
Diesel/TOG		8.00E-03	1,3-Butadiene	9.0E+00							3.6E-05			
		3.03E-01	Acetaldehyde	3.0E+02	4.1E-05									
Total					2.1E-02	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.0E-03	0.0E+00		

\* Key to Toxocological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g., teratogenic and developmental effects)
EYES	Eye irritation and/or other effects